SCIENTIFIC AMERICAN

Cumulative Index 1948-1978

SCIENTIFIC AMERICAN

Cumulative Index 1948–1978

Index to the 362 issues from May, 1948, through June, 1978

Published by Scientific Asserican, Inc. 415 Madison Avenue, New York, N. Y. 10017

Copyright © 1979 by Scientific American, Inc All rights reserved Printed in the United States of America

No part of this book may be reproduced by any mechanical photograph c, or electronic process or in the form of a phonograph c recording that may it be stirted in a terrieval system transmitted or otherwise supped to path c or private use with not written part. In the make publisher

15BN 0 5454 (02 5

Preface

This Cumulative Index embraces, inclusively, all issues of Scientific American from May, 1948, (the first under the magazine's present editorial direction) through June, 1978.

References are by year, month and page of issue, in that order; thus, the entry "1954 Aug. p. 77" refers to page 77 of the August, 1954, issue. The Index consists of eight independent parts, each alphabetically arranged, as follows:

Index to Topics offers access to the subject matter covered in 2,964 articles and some 3,500 "Science and the Citizen" items published in 362 issues indexed. This is a rotated key-word index. That is, the topics covered in a given article or item are cited by "key words" (average of seven per article and two per item). The key words are entered together in a cluster, and each key word takes its turn as the first term in the cluster in its entry and reentry down through the alphabet of this Index. Thus:

DNA, double helix, X-ray crystallography, genetic code, structure of DNA resolved 1954 Oct. p. 54-61 [5] double helix, DNA, X-ray crystallography, genetic code, structure of DNA resolved 1954 Oct. p. 54-61 [5] genetic code, DNA, double helix, X-ray crystallography, structure of DNA resolved 1954 Oct. p. 54-61 [5] X-ray crystallography, DNA, double helix, genetic code, structure of DNA resolved 1954 Oct. p. 54-61 [5]

In most cases, a secondary descriptive phrase, highlighting some aspect of the entry (in the example above: structure of DNA resolved) rides along with the rotating key words. Each entry is designed to serve, therefore, as a "mini-abstract" of the original.

Entries that begin with the same key word are listed in chronological order; articles are listed first, and "Science and the Citizen" items follow.

Articles are referenced by first and last page numbers (thus: 1978 June p. 60-72); "Science and the Citizen" items, by first page number (thus: 1978 June p. 74).

References to about one third of the articles close with a one- to four-digit number in brackets (in the example above: [5]); this is the Offprint number and identifies articles republished as Offprints by W. H. Freeman and Company (660 Market Street, San Francisco, California 94104).

Listing of Tables of Contents in chronological order permits ready identification, by titles and authors, of the articles cited in the foregoing index.

Index to Authors lists all authors of articles.

Index to Titles lists all articles by the first word in the title (exclusive of "The" or "A") and by the other key words in the title. "Underwater Archaeology in the Maya Highlands" thus appears under "Archaeology" and "Maya" as well as "Underwater."

Index to Book Reviews lists longer book reviews. The section is divided into three parts: Authors of books reviewed, Titles of the books and Reviewers.

Index to Mathematical Games lists the puzzles, games and diversions presented in the department since its inception in January, 1957, under editorship of Martin Gardner. It also includes Gardner's article on Flexagons (December, 1956) and the "twelve-ball" problem that cropped up in "The Amateur Scientist" in 1955.

Index to The Amateur Scientist lists the projects, experiments and demonstrations presented in this department from April, 1952, through February, 1976, (under the editorship of A. G. Ingalls until April, 1955, and thereafter under the editorship of C. L. Stong) and from July, 1977, through June, 1978, under the editorship of Jearl Walker.

Index to Proper Names lists the names of all persons mentioned in the articles or "Science and the Citizen" items and of places and institutions featured in a primary role.

The indexing was accomplished with collaboration of Excerpta Medica B. V., of Amsterdam; Infonet B. V., of Amsterdam, conducted the computer processing of the entries and composition of the pages.

THE EDITORS

November, 1978

BOARD OF EDITORS: Gerard Piel (Publisher), Dennis Flanagan (Editor), Francis Bello (Associate Fditor), Philip Morrison (Book Editor), Judith Friedman, Brian P. Hayes, Paul W. Hoffman, Jonathan B. Piel, John Purcell, James T. Rogers, Armand Schwab, Jr., Jonathan B. Tucker, Joseph Wisnossky, and K. Chester (up to April, 1952). Albert G. Ingalls (up to April, 1955), E. P. Rosenbaum (up to June, 1963), James R. Newman (up to July, 1966), Leon Svirsky (up to May, 1974), C. L. Stong (up to February, 1976).

Contents

	Preface	v
Index to	Topics	1
Listing of	Tables of Contents	251
Index to	Authors	273
Index to	Titles	305
Index to	Book Reviews	365
	Authors	365
	Titles	377
	Reviewers	389
Index to	Mathematical Games	397
Index to	The Amateur Scientist	401
Index to	Proper Names	407



SCIENTIFIC AMERICAN

Index to Topics

1		
\mathcal{A}		aboriginal culture, hu agricultural soci
A.A.A S: American Association for the Advancen	nent of Science	
A.A.A.S, centennial	1948 Aug p 22	aborigine, stone tools
Roger Adams president-elect	1949 Feb p 29	Australian abori
annual meeting	1950 Feb p 24	
annual meeting	1951 Feb p 30	abortion, birth contro
annual meeting	1952 Feb p 30	opinion, legal st
annual meeting	1953 Feb p 34	
presidents Condon and Weaver	1953 May p 54	population, marria
annual meeting	1954 Feb p 42	menarche, infan
annual meeting	1955 Feb p 52	England
Carnegie teaching grant	1955 Aug p 48	birth control, cont
annual meeting	1956 Feb p 48	public policy in
to boycott racially segregated cities	1956 Mar p 52	population, birth
annual meeting	1957 Feb p 58	mortality, inter-
annual meeting	1958 Feb p 42	of abortion
science policy, A A A S -sponsored 'Parliament	t of Science	liberalization of U
	1958 May p 51	US District of Co
annual meeting	1960 Feb p 66	model abortion la
annual meeting	1961 Feb p 66	legal in N Y State
annual meeting	1962 Jan p 72	legalization in U S
science and public policy	1970 Feb p 42	U S Supreme Co
abreus, calculating machine, Galileo's sexton, mo	echanical calculators,	fetal research
slide rule, sexton	1976 Apr p 104-113	abrasive wear, mater
ablation, heat, materials temperature limits, rock	et nozzle, turbine	fatigue wear, su
bucket, high temperatures materials	1954 Sept p 98-106	absorption line, pho-
artificial satellite, orbital motion, space explor	ation, Mercury, re-entry	
vehicle re-entry corridor, re-entry from spa	ce 1961 Jan p 49-57	spectroscopy, rad
ABM: antiballistic missile		centimeter way
ABM, radar blackout, atomic warfare, arms race		absorption of energy
ICBM, U.S. ABM system capabilities and I	1968 Mar p 21–31	abyss, climate ocea
MIRV, SALT deterrence ICBM, arms race, of		abuseal fish hadium
	1969 Apr p 15-25 [642]	abyssal fish, biolum
arms race, ICBM, MIRV, SLBM, mutural assu		abyssal life, ocean a
counterforce strategy, strategic balance, na		meters
	1969 Aug p 17-29 [330]	abyssal sediments, o
ICBM MIRV, atomic armaments counterfor		foraminifera p
weapons mutual assured destruction arms		of ancient temp
ABM controversy, Operations Research Society		Acapulco trench, Pa
	1971 Nov p 48	Trough ocean
ABM systems, arms rice ICBM MIRV, atomi	e weapons, SALT, atomic	accelerated ion tech
test han strategic weapons prospects for f		semiconductor
qualitative improvement of weapons	1971 Jun p 15-25	acceleration, space
abnormal behavior, spider webs, drug action, ar		black-out
comparation and Astronomical Comparation	1954 Dec p 80 96	human physiolog
comparative psychology parental care emet	ional development	medicine hum
maternal deprivation, early expenence and experiments with rats	i chi rionai development	rocket sled
e-lennam minitari	1963 June p. 138-146 [478]	

original culture, hunting, herding, food gathering, tri	ibal cultures,
agricultural society, India, 'living prehistory' in In	1012 167 Feb p 104–114
porigine, stone tools, Paleolythic man, dingo, Tasman	
Australian aborigine, antiquity of man in Australia	12
1966	Mar p 84-93 [628]
bortion, birth control, infant mortality, maternal mor	
opinion, legal status, incidence in US and other	countries
1969 3	Jan p 21-27 [1129]
population, marriage rate, death rate, birth rate, vita	al statistics,
menarche, infant mortality, 1538-1812, parish reg	usters, York,
	970 Jan p 105-112
birth control, contraception, family planning, popul	
public policy in U S	1973 July p 17–23
population, birth control, public health, infant mort	iality, maternai
mortality, international comparison of experience	
	Jan p 21-27 [1348] 1969 Nov p 56
liberalization of U S legislation U S District of Columbia abortion statute	1970 Jan p 50
model abortion law	1970 June p 47
legal in N Y State	1971 Oct p 42
legalization in US, social implications	1972 July p 51
U.S. Supreme Court affirms legality	1973 Mar p 44
fetal research	1975 Feb p 40
ibrasive wear, materials technology, wear, adhesive w	
	962 Feb p 127-136
absorption line, phosphors, energy emission, energy tr	ansformation
spectroscopy, radio astronomy, hydrogen, interstell	Oct p 62-66 [237]
centimeter wave absorption	1957 July p 48–55
absorption of energy, see absorption line	1351 5413 p 46 55
abyss, climate ocean circulation, currents in the abys	5
•	1958 July p 85-90
abyssal fish, bioluminescence glow worm firefly, luci	
	1948 May p 46-49
abyssal life, ocean abyss, bioluminescence, marine bio	
meters	1957 Nov p 50-57
abyssal sediments, oxygen isotopes, temperature meas foraminifera paleontology, glaciation climatic cl	bassa massusamant
of ancient temperatures	1958 Feb p 54-63
Acapulco trench, Pacific Ocean earth crust Tonga Tr	ench Cedros
Trough ocean floor 1955	Nov p 36-41 18141
accelerated ion technique, ion implantation microelec	ctronics
<pre>semiconductor, 'doping'</pre>	1973 Apr p 64-71
acceleration, space medicine g forces, weightlessness	semicircular canals
black-out	1951 Jan p 16-19
human physiology, manned space flight, weightless medicine, human centrifuge, gistress	
rocket sled	1962 Feb p 69 70 1955 Oct p 44
_	17 % Oct p 44

	Topics
accelerometer, aircraft navigation, navigation, air transport, inertial	• • •
mavigation, gyroscope, commercial adaptation of military and cause	acquired characteristics, Lysenkoism, Lamarck, genotype, evolution,
rechnology 1970 Mar n 90 96	prictivity po, initiation, ostron callinges energation, religion
necturin-proneness, predisposition over-rated 1949 Oct p. 20	UI III UIU AV. I Jarwiniem evpermente in community
acclimatization, metabolism, oxygen starvation, erythrocyte attitude	1052 Dag = 02 00
numpiation 1055 Dec. p. 58 68	acrasin, amoebae, cell differentiation, social amoebae, slime mold,
brown fat, altitude adaptation, Quechua Indians, deer mice	210170310110111 0011 aggicgation 1040 1144 = 157 124
hemoglobin, metabolic rate, exercise, human physiology at high	amoebae, adrenalin, social amoebae, slime mold, Dictyostelium, cole
attitude 1970 Feb n 52-62 [1168]	
sports medicine, Olympics at 7.450 feet altitude 1968 Ian p. 51	some distribution of the state
accounting, systems design, computer technology, computer decision	A.C.S.: American Chemical Society 1959 July p 124–134
making, bookkeeping, uses of computers in organizations	100
1966 Sept p 192-202	
Acetabularia, giant cells, mermaid's wineglass, cell nucleus, cytoplasm	1952 NOV p 44
algae, giant cells in study of nucleus-cytoplasm interaction	annual meeting
1966 Nov p 118-124 [1057]	annual meeting 1955 Nov p 49
acetaldehyde, metabolism, alcohol tolerance, drug abuse, liver function	annual meeting 1957 Nov. p. 70
1953 Dec p 86–90	A C.S. is A.M A, charges of 'monopoly' 1951 Oct p 33
acetaldehydism, defective alcohol metabolism 1975 May p 43	ACTH: adrenocorticotrophic hormone
acetic acid, fatty acid synthesis, microsome, coenzyme A, lecithin, lipids,	ACTH, cortisone, inflammation, degenerative diseases, hormone, stress,
synthesis not breakdown in reverse 1960 Feb p 46-51	experience with and appraisal of two hormonal drugs
acetylcholine, nervous system, nerve impulse, nerve excitation, inhibitory	1950 Mar p 30-37 [14]
impulse, neuromuscular synapse, neurotransmitters, dynamics of inhibition 1948 Sent. p. 44-49	pituitary gland, gonadotrophic hormones, metabolic hormones, growth
	hormone, endocrine system, the master gland 1950 Oct p 18-22
hormone, nerve impulse, serotonin, synapse, emotional illness, neurotransmitters, central nervous system, physiological psychology,	war, stress, combat fatigue, psychiatry, Korean war studies of
chemical mediation of nerve impulses 1957 Feb p 86–94	battlestress 1956 Mar p 31–35
algal bloom, Dinoflagellata, marine ecology, nerve poisons, poisonous	hormone, sexual characteristics, growth, thyroid-stimulating hormone, follicle-stimulating hormone, prolactin, androgens, estrogens,
tide 1958 Aug p 92–98	secondary sexual characteristics, human physiology, endocrine
acetylcholinesterase, nerve gases, nerve poisons, citric-acid cycle,	system, chemical integrators of the body 1957 Mar p 76-88 [1122]
alkaloids, toxins, lethal mechanisms at cellular level	adrenal gland, pituitary gland, cell communication, molecular structure
1959 Nov p 76-84	of ACTH, relation to function 1963 July p 46-53 [160]
electric fishes, sodium ion potential, electroplaques, neurophysiology,	actinomyosin, ecdysone, cortisone, insulin, estrogens, gene activation,
synapse, animal behavior, nerve impulse, bioluminescence	RNA synthesis, aldosterone, growth hormone, thyroxin, mechanism
1960 Oct p 115-124	of hormone action 1965 June p 36-45 [1013]
adrenalin, catecholamines, dopamine, drug effects, nerve physiology,	adrenal hormones, glucocorticoids, pituitary hormones, stress
neurotransmitters, noradrenaline 1974 June p 58-71 [1297]	1971 Jan p 26-31 [532]
nerve impulse, synapse, neurotransmitters, nerve-muscle synapse,	child development, dwarfism, emotional deprivation, growth hormone, deprivation dwarfism, 'bone age', anorexia nervosa
chemical mediation of neuromuscular transmission 1977 Feb p 106-118 [1352]	1972 July p 76-82 [1253]
acetylcholinesterase, acetylcholine, nerve gases, nerve poisons, citric-acid	ATP, glucogenesis, glycolysis, hormone, epinephrine, cell metabolism,
cycle, alkaloids, toxins, lethal mechanisms at cellular level	cyclic AMP, activation of cyclic AMP by hormones
1959 Nov p 76-84	1972 Aug p 97-105 [1256]
acetylene, chemical industry, plastics 1949 Jan p 16-21	cortisone, conference on potent new drugs 1949 Dec p 28
Acheson-Lilienthal plan, arms race, USSR atomic bomb, Baruch plan,	structure resolved 1955 Aug p 49
US negotiating position at termination of 'atomic monopoly'	synthetic ACTH 1961 Jan p 83
1949 Nov p 11–13	total synthesis 1963 Oct p 57 pituary gland, hormone function 1964 May p 62
Acheulean culture, man as hunter 1966 Dec p 58	pituary gland, hormone function 1964 May p 62 actin, muscle contraction, ATP, myosin, muscle fibril, biochemical
achievement, motivation, aspiration, social surveys, psychological testing, self-anchoring scale 1963 Feb p 41-45	mechanism of muscle contraction 1949 June p 22-25
self-anchoring scale 1963 Feb p 41-43 acidity, pH, galvanic cell, glass electrode, hydrogen ions	electron microscopy, muscle contraction, muscle fiber, myosin, muscle
1951 Jan p 40-43	fiber structure and function 1958 Nov p 66-82 [19]
acoustic analysis, voice analysis, sound spectrogram, speech quality of	actinomyosin, cyclosis, cilia, muscle contraction, flagella, cytology,
mental patients 1965 Mar p 82-91 [492]	cytoplasmic streaming, myosin, underlying unity of cellular motion 1961 Sept. p. 184-204 [97]
acoustic circuit, ultrasonic wave amplification 1961 Nov p 84	muscle contraction, myosin, ATP, electron microscopy, sliding-
acoustic formants, verbal communication, communication, phonetics,	filament hypothesis 1965 Dec p 18–27 [1026]
markedness/unmarkedness dyad, morphemes, syntax, context	ATP myosin actinomyosin, muscle contraction, tropomyosin,
sensitivity, invariant/variable dyad 1972 Sept p 72-80	troponin, calcium, microstructure of muscle filament and
acoustic holography, laser, sound	biochemistry of contraction 1974 Feb p 58-71 [1290]
acoustic imaging, nondestruc 1969 Oct p 36	muscle contraction, muscle fibril, protein switch, tropomyosin,
ecoustic imaging, acquestic holography, laser, sound waves, interference,	troponin, myosin, calicum in muscle 1975 Nov p 36-45 [1329]
holography nondestructive testing, medical diagnosis	actinomycin, antibiotics, DNA-actinomycin binding, mRNA inhibition, actinomycin synthesis 1974 Aug p 82–91 [1303]
1909 Oct p 30	protein synthesis 1974 Aug p 82-91 [1303] actinomyosin, muscle contraction, artificial muscle, Langmuir trough,
acoustic oscillation, combustion instability, rocket engine, resonant	ATD muscle relayation 1952 Dec D 18-21
age bustion propellant 1908 Dec p 74-105	energy transformation, mechanochemical engine, muscle contraction
acoustic pulses, air pressure, lightning, thunder 1975 July p 80–90 acoustic reverberation, architectual acoustics, sound waves, auditoriums,	1954 Mar p 72~70
acoustic reverberation, architectual acoustics, sound unterference, sound diffraction, effective	cyclosis, cilia, muscle contraction, flagella, cytology, cytoplasmic
management of sound in Dubic Dundings and dwennigs	streaming, actin, myosin, underlying unity of cellular motion 1961 Sept p 184-204 [97]
1909 110V p 70 72	de la contrare insulin estrogens, gene activation, RNA synthesis
acoustic toys, Corrugahorn, Hummer 1974 June p 56	aldosterone, growth hormone, ACTH, thyroxin, mechanism of
	1900 June D 30-40 [1013]
voice, musical scale, agreeable melodies and physical laws	A TO THE THE PROPERTY OF A PROPERTY OF THE PRO
1050 Est n 68	calcium, microstructure of muscle filament and diochemistry of
whip-crack physics	contraction 1774 Feb p 38-77 [1220]

action potential, nerve impulse, refractory period, sodium ion potential,	adenoviruses, virology, X-ray diffraction, pollomyelitis virus, polyoma
nodes of Ranvier, nerve membrane 1952 Nov p 55-65 [20]	virus, herpes virus, influenza virus, vaccinia virus, tobacco mosaic
activated nucleotides, DNA synthesis, virus - X 174, cell-free system,	virus, bacteriophage, structure of viruses 1963 Jan p 48-56 cancer virus, SV40 virus, DNA virus, DNA recombination, gene
DNA polymerase, first test-tube synthesis of biologically active	transformation, tumor-virus antigen, virus etiology of cancer
DNA 1968 Oct p 64–78 [1124]	transformation, tumor-virus antigen, virus etfology of cancer
active site, antibodies, antigens, immune response, lock-and-key theory,	cancer virus, herpes virus, virus disease, viral vaccines
immunoglobin, Bence-Jones proteins, Fab fragments, Fc unit	1973 Oct p 26–33
1977 Jan p 50–59 [1350]	viral etiology of cancer 1962 May p 80
see also antibodies, enzymes	adhesive, molecular attraction, surface tension, elastic energy, epoxy
active transport, passive transport, pinocytosis, phagocytosis, cytology,	resins, molecular repulsion, micromechanics of adhesion
osmosis, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167-180 [96]	1962 Apr p 114–126
1961 Sept p 107–100 [50]	polybutadiene glue 1957 Nov p 72
kidney tubule, sodium pump, membrane potential, cell membrane.	adhesive wear, materials technology, wear, abrasive wear, corrosion,
biological pumps 1962 Aug p 100–108	fatigue wear, surfaces in sliding contact 1962 Feb p 127–136
cell membrane, membrane lipids, membrane permeability,	adipose tissue, hibernation, brown fat, thermoregulation, homeostasis
phospholipids, membrane proteins 1972 Feb p 30–38 [1241]	metabolism, cold adaptation, neonatal physiology, heat production
cell membrane, lipid molecules, membrane proteins, membrane	in newborn animals, including man 1965 Aug p 62–65 [1018]
structure 1974 Mar p 26–33 [1292]	adjacency principle, visual perception, motion perception, contextual cues
ATP, cell membrane, colicine, membrane energetics, E. coli	
1975 Dec p 30–37 [1332]	in perception 19/8 May p 126–139 [582] adobe house, building construction, architecture, primitive architecture,
ATP, oxidative phosphorylation, cell membrane, mitochondrion,	climate, igloo, teepee, yurt, tent, sod hut, hogan stilt house
chloroplast, formation of the energy-exchange molecule in the cell	1960 Dec p 134–144
1978 Mar p 104-123 [1383]	•
active trapper, carnivorous plants, passive trapper, digestive enzymes.	adolescence, conformity, interpersonal relationships, social psychology, US teenage attitudes 1958 June p 25–29
natural history 1978 Feb p 104–155 [1382]	• · · · · · · · · · · · · · · · · · · ·
actuators, control systems, automatic control, servomechanisms,	child development, growth, menarche, earlier maturation of children in industrial countries 1968 Jan p 21-27
frequency response, pneumatic servomechanisms, hydraulic	industrial countries 1968 Jan p 21-27 child development, medical care, growth hormone, 'bone age',
servomechanisms, control systems 1952 Sept p 56-64	
acupuncture, in the Western world 1974 Apr p 51	menarche, heredity vs environment 1973 Sept p 34-43 family, alienation, racial discrimination, divorce, poverty, infant
acute illness, infectious disease, national health insurance, medical care,	mortality, crime, suicide, drug addiction, changes in American
child health care, chronic illness, delivery of medical care	
1973 Apr p 13–17	family structure 1974 Aug p 53-61 [561] adolescent development, menarche, bespeaks health rather than habits
acute respiratory failure, intensive care, tracheostomy, lung, alveolar	1972 May p 50
collapse, emphysema, pathogenesis and treatment of acute	adrenal gland, stress, psychosomatic illness, alarm reaction, kidney
respiratory failure 1969 Nov p 23–29	disorder, cardiovascular disease 1949 Mar p 20–23 [4]
artificial lung 1975 Apr p 57	schizophrenia, stress, steroid hormones 1949 July p 44–47
AD-X2, NBS chief Astin fired 1953 May p 53	ACTH, pituitary gland, cell communication, molecular structure of
Astin reinstated at NBS 1953 June p 44	ACTH, predictory grand, cer communication, molecular structure of ACTH, relation to function 1963 July p 46–53 [160]
'formula' still 'secret' 1953 Aug p 41 Astin gets tenure 1953 Oct p 51	pineal organ, biological clock, estrogens, progesterone, melatonin,
	serotonin, pineal regulation of sex glands 1965 July p 50-60 [1015]
official burial 1954 Jan p 38	effect on sexual receptivity 1972 Aug p 46 adrenal hormones, ACTH, glucocorticoids, pituitary hormones, stress
FTC condones maker's claims 1956 July p 48 still on market 1962 Feb p 81	1971 Jan p 26–31 [532]
still on market 1962 Feb p 81 adaptation, hot springs, high temperature, low temperature, glaciation	brain circuitry, gonadal hormones, hormone-sensitive neurons, sex
1949 Feb p 46–49	hormones sexual behavior, sex differences, steroid hormones, action
extinction, species specificity, natural selection, evolutionary radiation,	of hormones on nerve tissue 1976 July p 48–58 [1341]
ecological niche, 'Is man here to stay?' 1950 Nov p 52-55	electrocortin 1953 Nov. p 54
birds, geographical distribution, speciation, ornithology, behavioral	adrenalin, fear, anger, noradrenalin 1955 May p 74-81 [428]
adaptation, bird migration, provinciality of birds	anxiety neurosis, lactic acidosis, biochemistry of anxiety
1957 July p 118–128	1969 Feb p 69-75 [521]
comparative physiology, reptile, marine birds, salt excreting glands	acrasin, amoebae, social amoebae, slime mold, Dictyostelium, cyclic
1959 Jan p 109-116	AMP 1969 June p 78–91
germination, seed dispersal, dormancy 1959 Apr p 75-84	acetylcholine, catecholamines, dopamine, drug effects, nerve
sand dune ecology, thermoregulation, succulent plants, behavioral	physiology, neurotransmitters noradrenaline
adaptation, symbiosis, adaptive mechanism for life in hot acid	1974 June p 58-71 [1297]
environment 1959 July p 91–99	adrenocorticotrophic hormone, see ACTH
fleas, parasitism, host-parasite relationship, hormone, rabbits, estrus	adsorption, zeolites, molecular sieves ion exchange, separation of similar
the rabbit flea and rabbit hormones 1965 Dec p 44-53 [1027]	molecules 1959 Jan p 85-94
lungi, orchids, symbiosis, mycorrhiza, plant evolution, adaptive ability	Advanced Research Projects Agency computer Network, see ARPANET
of orchids 1966 Jan p 70–78	advanced study, \$2.75 million bequest to Berkeley 1955 Dec p 52
Ama, diving, diving women, Korea, Japan breathing, human	new school at M I T 1956 Feb p 49
physiology, basal metabolism 1967 May p 34-43	advertising, subliminal stimulation 1958 Aug p 52
aquatic insect, insect eggshell, respiration, entomology, selective permeability of insect 1970 Aug. p. 84-91 [1187]	A E.C.: Atomic Energy Commission
	A E.C., isotopes, U.S. Atomic Energy Commission makes isotopes
auxins trees plant hormones tree structure ax-head model mechanical design of trees 1975 July p 92-102	available free, to cancer research 1949 Apr p 16-17
mechanical design of trees 1975 July p 92–102 see also behavioral adaptation	atomic weapons nuclear power, science funding, university research
addition polymers, molecular science, polymers, condensation polymers	military secrecy 1949 July p 30-43 support for research 1948 June p 24
introduction to single-topic issue on 'girnt molecules'	1 1 2 2 mile p 24
1957 Sept p 80-89	194 · Muji. 17 22
molecular science, polymers, condensation polymers, introduction to	
single topic issue on 'giant molecules' 1957 Nov. p. 80-89	
adenoids, torsuls invited of viruses 1954 Nov p. 50	new commissioners 1040 June - 36
adenosinetriphosphate, see ATP	Senatorial ordeal of David E. Lilienthal
	Senatoral ordeal of Divid E. Filtenthal 1949 July p. 26 Liberthal hearings terminate 1949 Oct. p. 26 Liberthal regions
	Lihenthal resigns 1950 Jan p 28
	1430 Jan p 28

Disposition and T. I. and I.		
successor to Lilienthal	1950 May p 2	7 Supersonic flight shock ways and the state of the state
reluctant confirmation of Commissioner Pike	1950 Aug p 2	8 altitude aerodynamics, while turner, molecular beam, ultra-high
roster filled	1950 Oct p 2	4 insect flight. Stokes law
new general manager	1950 Dec p 2	Sparing wind velocity theread calls are
nation's armorer	1951 Sept p 51	flight flight of engring hards
Pike resigns	1952 Feb p 3:	2 air poliution, microclimate, micromato-rate of 1902 Apr. p. 130–140
reactors and weapons	1952 Mar p 3	1 UODOSDDere meleorology turbulance names t
\$4 billion budget	1952 Sept p 70	the ground
third uranium-separation plant	1952 Oct p 39	aerospace technology Coanda affort third days
Ohio uranium-separation plant	1952 Nov p 4	1 BOZZICS DIFFICES Platitic and applications of Court at the second
Glennan resigns	1952 Dec p 38	S TOCK TO THE THE TOCK TO THE
House-Senate Joint Committee	1953 Jan p 31	1966 June p 84-92 aurfoil, boomerang, computer graphics, actual and theoretical
uranium, weapons, reactors	1953 Mar p 44	boomerang orbits 1968 Nov. p. 124-126
Adm Strauss in wings	1953 Apr p 45	a)rcraft-wake vortexes contrails flight safety and flight make
new chairman	1953 May p 53	turbulence 1974 Mar n. 76-83
Strauss chairman	1953 Aug p 40	animal behavior, bird flight, insect flight, clan-fling mechanism flin
Campbell appointed	1953 Sept p 72	mechanism, novering flight, lift generation
submarine reactors	1953 Sept p 72	1975 Nov n 80-87 [1331]
General general manager	1953 Nov. p 50	see also aeronautics, air transport
loyalty and security, 'Oppenheimer case', leaks from	n Oppenheimer	aeronautics, aircraft design, vertical take-off aircraft 1960 Aug. p. 41-49
hearing	1954 June p 44	supersonic flight, commercial aircraft, aircraft design, sonic boom,
loyalty and security, 'Oppenheimer case', Oppenhei		aviation industry, technology and economics of supersonic transport
Investment and the second seco	1954 July p 42	1964 June p 25–35
loyalty and security, 'Oppenheimer case', Oppenhei		aircraft design, helicopters, helicopter flight, history, future
sustained	1954 Aug p 36	development 1967 Apr p 38-46
Libby succeeds Smyth Commissioner von Neumann	1954 Nov p 48	radiation hazards at 60,000 feet 1950 Dec p 30
	1954 Dec p 52	design and pilot error 1955 Apr p 49
Eisenhower commissioners	1955 May p 50	aircraft wing, speed of sound 1969 Sept p 95
loyalty and security, 'Oppenheimer case', boycott of boycott	Oppenneimer	Gossamer Condor, man-powered flight 1977 Oct p 74
new general manager	1955 May p 54	aerosol, light scattering, photometry, molecular size, hydrosol, Tyndall
Vance commissioner	1955 June p 47	spectra, measurement 1953 Feb p 69–76
appointments	1955 Dec p 52	aerospace technology, Coanda effect, fluid dynamics, aerodynamics,
Libby resigns	1958 Aug p 50 1959 Apr p 64	propulsion, nozzles, burners, nature and applications of Coanda
oil-man commissioner	1960 Apr p 88	effect 1966 June p 84–92
three scientists, two laymen	1961 May p 74	aerothermodynamics, heat, propulsion, energy transformation, laminar flow, turbulence, high temperatures propulsion
new commissioners	1962 Sept p 100	1954 Sept p 120-131
first female commissioner	1964 May p 60	Afar triangle, Red Sea, Rift Valley, guyot, Gulf of Aden, sea-floor
Aegyptopithecus, primate evolution, hominoid, fossil pi		spreading, continental drift, sea-floor spreading opens new ocean
man-apes, Fayum, Oligocene ancestor of hominoid		1970 Feb p 32-40 [891]
	Dec p 28-35 (636)	afforestation, soil erosion, irrigation, agricultural technology, poverty,
aequorin, ATP, muscle contraction, calcium, barnacle, l		economic development, Mediterranean Project, United Nations
	pr p 84-93 [1175]	1960 July p 86–103
aerial mapping, aerial photography, airborne radar, all-	weather imaging,	aflatoxin, carcinogenesis, Aspergilles flavus 1964 Nov p 60
radar, radar holography, side-looking radar		Africa, termite, entomology, insect behavior, air conditioning,
	Oct p 84-95 [386]	airconditioned termite nests 1961 July p 138-145
aerial photography, natural resources, infrared photogra		marriage, sister exchange, marriage contracts 1975 Dec p 84-94
sensing, multiband camera, remote sensing of natu		Bantu language, Early Iron Age culture, language diffusion, linguistics 1977 Apr p 106-114
	968 Jan p 54-69	African drum language, communication, drums, gong language, talking
aerial mapping, airborne radar, all-weather imaging, i		
	Oct p 84-95 [386]	drums 1971 Dec p 90-94 African hominids, brain evolution, fossil hominid brains hominid, human
aerial plankton, animal migration, species dispersion, in agricultural pest, entomology, wind-borne dispersal	sect physiology,	brain, pongid brains, endocranial casts 1974 July p 106-115 [686]
	3 Dec p 132-138	African rifts, gravity, ocean floor, mid-ocean ridge, oceanography,
aerobic metabolism, chloroplast, oxygen cycle, photosyn		discovery of submarine rifted ridge 1960 Oct p 98-110
ozone, oxidation-reduction reactions, geological rec	ord, oxygen-	'after effects', human eye, optical illusion, vision, sensory perception,
carbon balance 1970 Sept	p 110~123 [1192]	visual cortex, 'cortical satiation' 1962 Jan p 44-49
ATP, muscle, glycolysis, aerobic metabolism, oxygen o	debt, lactic acid	afterimages, color vision, photochemistry, sensory discrimination, visual
formation, anaerobic metabolism, energy mechanism	ms in muscle	pigments, photochemistry of color perception
1972 Mai	rp 84-91 [1244]	1963 Oct p 84–93 [1089]
ATP, muscle, glycolysis, oxygen debt, lactic acid forma	ation, aerobic	phosphenes, vision, perception, prosthesis for blind, self-illumination of visual centers 1970 Feb p 82-87
metabolism, anaerobic metabolism, energy mechani	sms in muscle	negative aftereffects, optical illusion, visual perception
	p 84~91 [1244]	1976 Dec p 42-48 [574]
see also oxidative phosphorylation	ana sound	Agamemnon, Mycenaean civilization, Classical archeology, burial
aerodynamic whistles, feedback, vortex, edge tone, hole to waves, whistles, flutes, organs and rocket engines 15	770 Jan n 40-46	treasure, dig started by Schliemann continues 1954 Dec. p. 72-78
aerodynamics, shock waves, shadow photography, speed	of sound. Mach	agammaglobulinemia, gene expression, alkaptonuma, Wilson's disease,
cones, ballistics	19 Nov p 14-19	congenital anomalies, chemistry of hereditary disease, one gene-one
	52 Apr p 24-29	enzyme hypothesis 1956 Dec p 126-136
houndary layer, airfoil, laminar flow, turbulence 193	54 Aug p 72-77	bacterial infection, blood proteins, gammaglobulin, antibodies,
hadges suspension hadges, harmonic oscillation 193	4 Nov p 60-71	immunology, tissue grafts, hereditary immunological deficiency 1957 July p 93-104
bird flight, weight-strength ratio, bone structure, respir	atory air sacs,	immunology, value of normally unhygienic environment
birds as flying machines 193	is mar p co-90	1958 Oct p 56
insect flight, locust, wind tunnel, efficiency of locust flight	Mar n (10~124	agar, algae, phytoplankton, kelp, food chain, algin 1952 Dec p 15-17
ailerons, aircraft design, smoke tunnel, airfoil, boundar	y layer, low-	Agassiz, glaciation, paleontology, natural history, Louis Agassiz,
speed flight	6 Apr p 46-51	fostering of science in America 1949 July p 48-51
-r v		

	economic development, industrialization, population control,
ge of elements, spectroscopy, age of universe, element formation, mass	
spectroscopy, nucleochronology, radioactive nuclei, stellar evolution,	technology transfer, food production, economic planning, India,
supernovae 1974 Jan p 69–77	economic development by democratic planning
cosmology, 'big bang' theory, 'closed' universe, 'open' universe,	1963 Sept p 189-206
universe expansion, deuterium abundance, average density	equatorial rain forests, tropical climate, laterization, developing
1976 Mar p 62–79	countries, lateritic soil 1964 Nov p 96–102 [870]
	food supply, human nutrition, population control, world food bank,
ge of universe, spectroscopy, age of elements, element formation, mass	human population 1974 Sept. p 160–170
spectroscopy, nucleochronology, radioactive nuclei stellar evolution,	
supernovae 1974 Jan p 69–77	1000 T
ige-sex distribution, fertility, US census, human resources, mortality	world food production 1972 Jan. p 45
rates population of U S 1951 Sept. p. 28–35	agricultural resources, land use, grazing, forestry, rangeland, land
US census, urbanization, baby boom, family size, central city,	management, U.S Western states 1970 Feb p 88-96 [1169]
suburbs, US census at 1960 1961 July p 39-45	gene manipulation, irrigation, photosynthesis, food and agriculture
education, US population, labor force, demographics, gross national	1976 Sept. p 164-178
education, O.S. population, labor force, demographics, gross national	agricultural revolution, slavery, Classical civilization 1949 June p 40-43
product, US census, more from the US census of 1960	New World archeology, mound builders, statistical senation
1962 Oct p 30–37	
agglutination response, cancer, cell membrane, immunology, lectins,	Mississippian culture, pre-Columbian Mississippi valley on verge of
proteins 1977 June p 108–119 [1360]	urban revolution 1952 Mar p 22–27
aggression, group behavior pecking order, social psychology,	Jarmo site, radiocarbon dating archeology, cave to village at Jarmo
experiments in group behavior 1956 Nov. p. 54–58 [154]	1952 Oct p 62–66
violence, delinquency, motion picture film, television, catharsis, effects	Neolithic archeology, tools, slash-burn agriculture, cultural evolution,
of observing filmed violence 1964 Feb p 35–41 [481]	Stone Age forestry and agronomy 1956 Mar p 36-41
rats, animal behavior, social behavior, territorial behavior, natural	Fertile Crescent, human evolution, cultural anthropology, Neolithic
rais, animai benavior, sociai benavior, territoriai benavior, natura	archeology, 8000 B C domestication of plants and animals
history, Rattus rattus Rattus norvegicus 1967 Jan p 78–85	~
aging, death, life expectancy, biology of senescence 1948 June p 40-43	1960 Sept. p 130–148 [605]
leaf shape, duckweed, systematic study of familiar amateur observation	demographics, population growth, cultural evolution, Industrial
1949 Oct. p 22–24	Revolution, population explosion, human evolution, historical
rottfer, life expectancy, experiments in aging, age of mother	perspective on human population growth, how many ever lived
1953 Apr p 38-42	1960 Sept. p 194-204 [608]
death rate, disease etiology, life expectancy, male female life	New World archeology Mexican agriculture, corn, urbanization, New
	World agricultural revolution 1964 Nov p 29-37 [625]
	cities, urbanization, Industrial Revolution, communication, origin and
death rate, life expectancy, comparative life spans in man and other	evolution of cities 1965 Sept p 54-63
animals 1961 Aug. p 108–119	1 1
cell physiology, gerontology, life expectancy, manifestations of aging	human population, food production, fertilizers, pollution, irrigation,
1962 Jan p 100-110	biosphere, soil erosion, biosphere capacity to produce food
collagen, tendons, biological age 1963 Apr p 104-114 [155]	1970 Sept. p 160–170 [1196]
fibroblasts, mitosis, cell culture, somatic cells, cell, DNA replication,	Hoabinhian culture, Neolithic archeology, Spirit Cave site, Thailand
experiments in aging 1968 Mar p 32-37 [1103]	1972 Apr p 34-41 [675]
radiation damage, free radicals, electron-spin resonance, chemical	agricultural society, Macedonia, Nea Nikomedeia, Neolithic village, clay
bond, spectroscopy, effects of free radicals on living systems	figurines, domestic animals, oldest Neolithic site in Europe
1970 Aug. p 70–83 [335]	1965 Apr p 82–92
gerontology, longevity, senility, medical care 1973 Sept. p 44–52	hunting, herding, food gathering, tribal cultures, abonginal culture,
cataract, eye lens, human eye, vision 1975 Dec. p 70-81	India, 'living prehistory' in India 1967 Feb p 104-114
cytochrome C for senility? 1949 Aug. p 24	agricultural system, Nabataean culture, irrigation, wadi, desert,
free radicals 1969 Mar p 50	restoration of Nabataean irrigation works in the Negev
Agora, Classical archeology, Athens 1950 Aug. p 46-51	1956 Apr p 39-45
Agricola, de re Metallica, woodcuts from Hoover translation	social values, Mormons, Zunis, Spanish-Americans, Navaho,
1951 Feb p 46-47	comparative study of cultures in New Mexico 1956 July p 25-31
agricultural economics, forage crops, grasses, agronomy, hay, legumes,	commerce, market, peasants, peasant markets in Haiti
livestock feed, ruminants, silage, Rhizobium bacteria	1960 Aug. p 112–122 [647]
1976 Feb p 60–75	chinampa, canals, drainage, Mexican agriculture, Aztec civilization.
food and agriculture, food processing, US agriculture, 'agribusiness'	
	highly productive farm plots, Aztec empire 1964 July p 90–98 [648]
1976 Sept. p 106–123	Arawak Indians, earthworks, flood plain, ridged fields, New World
agricultural system, cropping systems, food and agriculture	archeology 1967 July p 92–100
1976 Sept. p 98–105	water cycle, transpiration, evaporation, runoff, ocean, precipitation,
agricultural ecosystem, solar radiation, photosynthesis biosphere, climax	biosphere, photosynthesis 1970 Sept. p 98–108 [1191]
ecosystem, energy cycle, ecosystem, food chain, respiration,	animal husbandry, ecosystem, energy cycle, power, New Guinea,
biosphere energy cycle 1970 Sept p 64-74 [1190]	tropical agriculture 1971 Sept. p. 116–132 [666]
agricultural history, animal domestication, archeology, plant	agricultural economics, cropping systems, food and agriculture
domestication, food and agriculture 1976 Sept. p 88-97	1976 Sept. p 98–105
agricultural irrigation, canals, hydro-engineering, pipelines, Jordan Valley	agricultural technology, dust storms, drought, dry-land farming, soil
Plan, water supply, Israel, Jordan 1965 Mar p 23-31	reclamation, mulch, shelter belts, U.S. High Plains 1948
agricultural pest, alfalfa caterpillar, ecology, insecticide, life cycle, wilt	
disease, predation 1954 June p 38-42	fortilizers inscattands hashind al. 1948 Aug. p 7-11
bacteriology, biological pest control, insecticide, insect physiology	fertilizers, insecticide, herbicide, chemical agriculture
	1952 Aug. p 15–19
virology, entomology, living insecticides 1956 Aug. p 96–104	dust storms, dry land farming, Great Plains, marginal farmlands, wind
fire ants, dieldrin, pest control, insecticide 1958 Mar p 36-41	erosion 1954 July p. 25_20
corn borer, insect behavior, species specificity, corn, adaptation of	weed control insect herbivores, leaf-eating beetle, Klamath weed.
parasite to host 1958 May p 87-94	living herbicides 1957 July n. 56, 67
aerial plankton, animal migration, species dispersion, insect	trace elements, cobalt, desert ecology, land reclamation, vitamin R17
physiology, entomology, wind borne dispersal of species	synthesis, reclamation of infertile Austrialian land
1963 Dec. p 132–138	
agricultural production, poverty, education, economic development,	1959 Jan p 97-106 Negev desert, imgation, desert ecology, land reclamation, Israel, desert
language, Peru literacy, Cornell-Peru experiment in economic	reclamation 1960 Mars 1960
development 1957 Jan. p 37-45	rectamation 1960 Mar p 54-63 collerosion, irrigation, poverty, economic development, afforestation,
	MALEGUOUS DUISLINS CLINICITIC OPLEIONMENT AFFORMANS
	Mediterranean Project, United Nations 1960 July p 86–103

economic development, technology transfer, human nutrition, food	
production, nutritional self-sufficiency in economic development	ailerons, aircraft design, aerodynamics, smoke tunnel, airfoil, boundary
production as the sufficiency in economic development	idyer, low-speed flight 1056 Apr = 46 51
sconomic development industrialization 1963 Sept p 72–80 [1153]	air-preatting tisties, evolution, lungfish, Devonian period fish
economic development, industrialization, national economic policy,	physiology, conquest of land-breathing organs
Federal intervention in economic development of US South	1968 Oct p 102-111 [1125]
1963 Sept p 224-232	air conditioning, Africa, termite, entomology, insect behavior,
plant growth, food production, fertilizers, chemical industry, increasing	
World lood supply 1965 June p. 62-73	air conditioned termite nests 1961 July p 138–145
irrigation, ground water, artesian well. Sahara desert, water resource	air vent, wind tower, domed roof, architecture, cooling system, passive
management, land reclamation, intercalary water, 'fossil' water,	cooling systems in Iranian architecture 1978 Feb p 144-154 [705]
making desert fertile 1966 May p 21-29	heat storage in salt
poultry production, food production, animal husbandry, chicken, eggs,	air currents, soaring, wind velocity, thermal cells, aerodynamics,
US chicken factories 1966 July p 56-64	ornithology, bird flight, flight of soaring birds 1962 Apr p 130-140
People's Republic of China, industrial technology, economic	air drive, ultracentrifuge, molecular weight, sedimentation, fractionation,
development technology an December Describer of Class	oil drive, magnetic suspension, 900,000 g, 60 million r p m
development, technology in People's Republic of China	1951 June v 42~51
1966 Nov p 37-45	air masses, atmospheric circulation, hurricanes, upper atmosphere,
mechanical harvesting, cotton picker, tomato harvester, hay cuber,	tropical origin of hurricanes 1957 Aug p 33-39 [847]
cherry picker, grain combine 1967 Aug p 50-59	weather satellites, Tiros, telemetry, atmospheric circulation, heat
sulfur, sulfuric acid, Frasch process, sulfur demand-and-supply	budget of Earth, videocameras, photographic weather maps, weather
production 1970 May p 62-72	forecasting 1961 July p 80-94
land reform, food supply, population growth, FAO, human nutrition,	air pollution, catalysis, combustibility, fly ash, dust storms, metallurgy,
FAO Indicative World Plan 1970 Aug p 54-69 [1186]	fine particles 1950 Dec p 50-53
China, economic development, rice, hybrid wheat, hybrid rice,	smog, atmospheric inversion 1952 May p 15-19
irrigation, livestock 1975 June p 13-21	smog, 'blue haze', atmospheric inversion, particulates, ozone,
center-pivot irrigation, irrigation, ground water 1976 June p 90-99	
herbicide, mulch, weed control, tiliage without plow	
1977 Jan p 28-33 [1349]	camouflage, evolution, melanism, moths, speciation, population
	genetics, mutation, genetic variation, evolution observed
drip irrigation, irrigation, trickle irrigation 1977 Nov p 62-68 [1371] chemical revolution 1952 Apr p 36	1959 Mar p 48–53 [842]
	climate, carbon dioxide 'window', meteorology, fossil fuel, threat of
no-tillage farming 1968 Aug p 46	'greenhouse effect' 1959 July p 41–47 [823]
drip irrigation 1975 Aug p 48	bronchutis, emphysema, public health, smog, environmental health,
plowless farming 1975 Nov p 60	US cities, smog and public health 1961 Oct p 49-57 [612]
agriculture, see agronomy, agricultural system, agricultural technology	smog, automobile emissions, ozone, urban transport, air pollution
and the like	control in Los Angeles 1964 Jan p 24-31 [618]
agronomy, soil structure, chernozems, podzols, latozols, tundra, alluvial	aerodynamics, microclimate, micrometeorology, fluid dynamics,
soils, ecology of soil, soil erosion, the soils of the world and their	troposphere, meteorology, turbulence, atmospheric phenomena near
management 1950 July p 30–39	the ground 1964 Oct p 62-76
corn, hybrid corn, technology and promise of hybrid corn	cities, water supply, sewage disposal, smog, water pollution, taxation,
1951 Aug p 39-47	Los Angeles, New York, metabolism of cities 1965 Sept p 178-190
auxins, plant growth, oak, giberellin, function of plant growth hormone	automobile, electric automobile, battery, weight, cost, performance of electric automobile 1966 Oct p 34-40
1957 Apr p 125-134 [11]	
climate, plant growth, greenhouse, photoperiodicity, day-night	cities, climate, heat emission, heat pollution, microclimate, infrared photography, heat island, climate of cities
temperature, 'phytotron', environment simulator	1967 Aug p 15-23 [1215]
1957 June p 82–94	cloud seeding water cycle, water drop, ice crystals, fog, inversion layer,
Lysenko, genetics, potato virus, virus disease, vernalization, the	1000 5 74 03 (076)
Lysenko affair 1962 Nov p 41–49	air transport, technology assessment, science policy, automobile
irrigation, sea water, salt-water agriculture, and lands, salt tolerance	transportation, noise pollution, technology assessment institutions
1967 Mar p 89–96	proposed 1970 Feb p 13-21 [332]
plant hybrids, wheat, hybrid wheat, food production 1969 May p 21-29	nckets, vitamin D, ultraviolet radiation, osteogenesis, calcium
	metabolism, epidemiology, sunlight 1970 Dec p 76-91 [1207]
chemical mutagens, plant breeding 1971 Jan p 86-95 [1210]	chmate, atmospheric circulation, carbon dioxide 'window', particulates,
corn, lysine, plant breeding, plant protein, human nutrition, malnutrition, high-lysine corn 1971 Aug p 34-42 [1229]	ozone, temperature of Earth, human activity and climatic change
malnutration, high-lysine corn 1971 Aug p 34-42 [1229]	1971 Jan p 32-42 [894]
legumes, nutrogen fixation, soybean products, plant protein 1974 Feb p 14-21	corona discharge, electrocoating, fly ash, electrostatics, photocopying
grain, proteins, plant protein, plant hybrids, Triticale	xerography, electrostatic precipitation and seperation
grain, proteins, plant protein, plant hybrids, 1974 Aug p 72-80	1972 Mar p 46-58
disease-resistant plants, plant breeding, plant disease, fungal infection,	automobile engines, rotary engine, Wankel engine, auto engineering
plant pathogens, sugarcane, mechanism of disease resistance in	1972 Aug p 14-23
	Clean Air Act, emission standards, Environmental Protection Agency
plants agricultural economics, forage crops, grasses, hay, legumes, lives to the agricultural economics, forage crops, grasses, hay, legumes, lives to the seconomics agricultural economics.	1973 June p 14-21
feed, ruminants, silage, Rhizobium bacteria 1976 Feb p 60-75	evolution, melanism, moths, gene mutation, population genetics,
'green revolution', food and agriculture, maize, potatoes, Mexican	predation, evolution observed again 1975 Jan p 90-99 [1314]
19/6 Sept p 126~130	effect of rocket exhaust on upper-air 1963 Mar p 74
'arean revolution' India food and agriculture, technology transfer,	asbestos dust carcinogen 1964 Dec p 64
monegons impation fertilizers, rice, wheat, hybrid clop plants	Los Angeles carbon monoxide emission control 1965 May p 52
1976 Sept p 154-165	auto emission standards, safety standards 1965 Aug p 44
and a slow breeding rice wheat maize, food and agriculture,	moreused prosper
plant genetics 1970 Sept p 100 12	
Southern leaf blight 1970 Oct p 54	
-lant origins su eet notato	
high protein sarahum	low-pollution automobile engines 1971 Sept p 80 automobile engines, catalytic converter 1973 Apr p 44
1 last collected crons	LPG for internal combustion fuel? 1973 Sept p 69
1970 Oct p 00	automobile exhaust-emission standard 1975 Apr p 53
all anthus, city trees, pollution effects, tree cloning, gringo, London plants	automobile engines, fuel economy 1977 Jan p 43
Norway maple 1976 Nov p 110-118	ir pressure, acoustic pulses, lightning, thunder 1975 July p 80-90

air traffic control, air transport, radar	1952 June p. 64-65	Alaskan oil, Prudhoe Bay discovery 1968 Sept.	. p. 86
airport, transportation industry, radar	1960 Dec. p. 47-55	albatross, evolution, animal behavior, bird flight, sexual behavior,	
air transport, air traffic control, radar	1952 June p. 64-65	soaring, natural history 1970 Nov. p. 84–93	[1204]
aircraft landing, automatic pilot, blind landing, i		Albatross voyage, ocean floor, sonar, seismology, sedimentary cores,	
aircraft fanding, automatic phot, office fanding,	trolled approach	isotope dating, Swedish deep-sea expedition 1950 Aug. p.	42-45
system, precision approach radar, ground-con	1964 Mar. p. 25–35	albedo, Antarctica, climatology, solar radiation, atmospheric circula	tion
		Antarctica in Earth's heat budget 1962 Sept. p. 84–94	1 12501
cargo handling, shipping, containerization, auto	matic control, loading		
	1968 Oct. p. 80–88	wind, solar radiation, energy cycle, biosphere, atmospheric circula	mon,
technology assessment, science policy, automobi	ile transportation, air	climate, ocean circulation, terrestrial radiation, carbon dioxide	
pollution, noise pollution, technology assessm	ent institutions	'window', Earth energy cycle 1970 Sept. p. 54-63	[1189]
proposed	970 Feb. p. 13-21 [332]	asteroids, meteorites, planetisimal collisions, solar system formati	
accelerometer, aircraft navigation, navigation, ir		primordial dust cloud 1975 Jan. p.	24-33
gyroscope, commercial adaptation of military	and space technology	albinism, gene mutation, Siamese cat, visual cortex, white mink, whi	
gyroscope, commercial adaptation of minitary	1970 Mar. p. 80–86	tiger, cross-eyed trait 1974 May p. 44–54	
		associated with cross-eyedness in Siamese cats and white tigers	[127.]
air vent, air conditioning, wind tower, domed roof	, architecture, coomig	1973 Aug.	- 42
system, passive cooling systems in Iranian arc	emtecture		. p. 45
	8 Feb. p. 144-154 [705]	alchemy, transmutation, philosopher's stone, science history	
airbag, automobile design, automotive safety, seat	belts, crashworthiness	1952 Oct. p.	12-16
tests	1973 Feb. p. 78–86	alcohol, digestion, hydrochloric acid, aspirin, stomach mucosa, self-	
airborne infection, histoplasmosis, fungal infection	n, respiratory infection,	digestion safeguards 1972 Jan. p. 86-93	
epidemiology, coccidioidomycosis	1948 June p. 12-15	depresses appetite 1951 Jan.	p. 30
airborne radar, aerial mapping, aerial photography		in violent deaths 1951 Aug.	
radar, radar holography, side-looking radar), un violate 2154g-2,	cardiovascular reaction 1965 June	
radar, radar norography, side-rooking radar	1977 Oct. p. 84-95 [386]	alcohol metabolism, detoxification, drug inactivation, enzyme, liver	p. 5.
		function, metabolism of drugs, cirrhosis 1975 June p. 22–31	[1222]
airborne warning and control system aircraft, see: A	AWACS	alcoholism, fatty liver, liver function, malnutrition, 'empty calorie	
aircraft design, ailerons, aerodynamics, smoke tun			. *
layer, low-speed flight	1956 Apr. p. 46-51	acetaldehyde, cirrhosis 1976 Mar. p. 25–33	
aeronautics, vertical take-off aircraft	1960 Aug. p. 41–49	limit of metabolism 1952 Nov.	
aeronautics, supersonic flight, commercial aircr	aft, sonic boom,	alcohol tolerance, metabolism, drug abuse, liver function, acetaldehy	/de
aviation industry, technology and economics	of supersonic transport	1953 Dec. p.	86–90
	1964 June p. 25-35	alcoholism, metabolism, drunkeness, physiological individuality	
aeronautics, helicopters, helicopter flight, history	ry, future development	conditions effect of alcohol 1948 Dec. p.	50-53
,	1967 Apr. p. 38-46	alcohol metabolism, fatty liver, liver function, malnutrition, 'empt	v
aircraft landing, automatic pilot, blind landing, ai		calories', acetaldehyde, cirrhosis 1976 Mar. p. 25-33	
landing system, precision approach radar, gr		drug reinforces abstinence 1949 May	
	1964 Mar. p. 25-35	on the increase 1952 June	-
approach			
aircraft navigation, accelerometer, navigation, air		<u> </u>	
navigation, gyroscope, commercial adaptation		role of culture in etiology 1957 July	
technology	1970 Mar. p. 80–86	aldosterone, actinomyosin, ecdysone, cortisone, insulin, estrogens, go	ene
inertial guidance	1957 June p. 70	activation, RNA synthesis, growth hormone, ACTH, thyroxin,	
aircraft propulsion, gas turbine, centrifugal comp	ressor, axial-flow	mechanism of hormone action 1965 June p. 36–45 [[1013]
compressor, ducted fan, electric power gener		Aleutian culture, subverted by dories 1955 June	
	1953 Nov. p. 65-72	Aleutian Islands, Aleuts, Eskimo, genocide, Aleuts as 'Southern Eski	mos'
aircraft-wake vortexes, aerodynamics, contrails, f	light safety, jet flight,	1958 Nov. p. 11	2-124
wake turbulence	1974 Mar. p. 76–83	Aleutian Trench, ocean floor, topography, seamounts, fathogram, so	nar.
aircraft wing, aeronautics, speed of sound	1969 Sept. p. 95	echo-sounding, the Pacific floor 1952 Apr. p.	
Airflow automobile, automobile history, streamling		Aleuts, Eskimo, genocide, Aleutian Islands, Aleuts as 'Southern Eski	
	977 Aug. p. 98-106 [697]	1958 Nov. p. 113	
airfoil, aerodynamics, bird flight, soaring, therma		Alexander, archeological excavation, Phrygian civilization, Gordion,	700
and a south of the	1952 Apr. p. 24–29	B.C., preclassical Greek link with East 1959 July p. 100	0 100
boundary layer, laminar flow, turbulence, aero		alfalfa caterpillar, ecology, insecticide, life cycle, agricultural pest, wi	0-109
obundary rayer, raminiar now, furbulence, aero	1954 Aug. p. 72–77	disease predation	II
ailerons, aircraft design, aerodynamics, smoke		disease, predation 1954 June p. 1	38-42
		algae, phytoplankton, kelp, food chain, algin, agar 1952 Dec. p.	15–17
low-speed flight	1956 Apr. p. 46–51	chlorella, food production 1953 Oct. p. 1	31–35
aerodynamics, boomerang, computer graphics		lichens, symbiosis, fungi, desert ecology, polar ecology, symbiotic	
boomerang orbits	1968 Nov. p. 124–136	nature of lichens 1959 Oct. p. 144–156	[111]
airglow, Earth, aurora, corpuscular streams, sola		deuterium, reaction kinetics, metabolism of mammals, penicillin m	
aurora and airglow	1955 Sept. p. 140–150	heavy water biology 1960 July p. 106	5-116
atmosphere, ionosphere, solar radiation, ozone	e, oxygen atoms, upper	photosynthesis, chloroplast, oxidative phosphorylation, Calvin cyc	ele,
atmosphere, laboratory simulation, atomic		path of carbon in photosynthesis 1962 June p. 88–100	[122]
	1966 Mar. p. 102–110	lichens, fungi, symbiosis, fungi as symbionts in lichens	t1
atmospheric ionization, spectroscopy, atmosp	heric light,	1963 Feb n 123	7_137
photochemistry	1972 Jan. p. 78–85	coral, coral rings, fossil reefs, paleontology, climatic change, dating	hv.
airplane seats, should face stern	1951 Dec. p. 36	coral rings 1966 Oct. p. 26–33	5 0 y 10 7 1 1
airport, air traffic control, transportation industr	ry, radar	Acetabularia, giant cells, mermaid's wineglass, cell nucleus, cytopl	[0/1]
	1960 Dec. n. 47-55	giant cells in study of nucleus-cytoplasm interaction	asm,
alanine, RNA, nucleic acid, nucleotide sequence	tRNA enzyme	1066 Nov 119 1246	
cleavage, fragment assembly, first nucleotic	le sequence	1966 Nov. p. 118–124 [xylan, mannan, plant cell wall, cellulose, xylan, mannan in place of	1057]
	1966 Feb n 30_39 [1033]	cellulose in marine plant tissue 1968 June p. 102–108 f	t .
alarm reaction, stress, psychosomatic illness, kid	lnev disorder	cellulose in marine plant tissue 1968 June p. 102–108 [1110]
cardiovascular disease, adrenal gland	1949 Mar. p. 20–23 [4]	torest communities, nenens, ecology, food chain, nitrogen cycle, tre	eetop
wild rats stronger	1051 Dec p 42	1073 Tune n 74 00 f	17741
Alaska, Arctic, Stone Age hunters, Siberia, Gree	Poland Dorset culture	Dacteria, reguires, mirrogen lixation, nitrogenase, genetic engineesis	ng,
Circumbolar Stone Age culture	1064 1 02 00	historical process, rhizobium, legumes, symbiosis, nitrogenase,	_
New World archeology, Onion Portage site. I	ichima Darina land	0101021Call hitrogen titation	18–8
bridge, human migration, stone artifacts, g	ateway to America	angun bloom, blue-green bacteria, cyanobacteria, gas vacuoles	
e and and an	1968 June p. 24–33	1977 Aug n 00 07 f	13671
	1700 June p. 24-33	bacteria, photoelectric effect 1964 Mar.	p. 50

economic development, technology transl	fer, human nutrition food	ollarona oleanata teri	
production, nutritional self-sufficiency	in economic development	ailerons, aircraft design, aerodynamics, smok layer, low-speed flight	e tunnel, airfoil, boundary
	1963 Sept. p. 72-80 11153	air-breaking fishes, evolution, lungfish, Devo	1956 Apr. p. 46-51
economic development, industrialization,	national economic policy	physiology, conquest of land-breathing o	nian period, fish
Federal intervention in economic devel	opment of U.S. South		
	1963 Sept. p. 224-232	" Off Conditioning Africa termite and 1	1968 Oct. p. 102-111 [1125]
plant growth, food production, fertilizers,	chemical industry, increasing	airconditioned termite nests	
world food supply	1965 June p. 62-72	air vent, wind tower, domed roof, architectu	1961 July p. 138–145
irrigation, ground water, artesian well, Sa	hara desert, water resource	cooling systems in Iranian architecture	1978 Feb. p. 144-154 [705]
management, land reclamation, interca	lary water, 'fossil' water,	heat storage in salt	1971 Aug. n. 46
making desert fertile	1966 May p. 21-29		lls, aerodynamics.
poultry production, food production, anir U.S. chicken factories	nal husbandry, chicken, eggs,	ornithology, bird flight, flight of soaring b	pirds 1962 Apr. p. 130-140
People's Republic of China, industrial tec	1966 July p. 56-64	air drive, ultracentrifuge, molecular weight, sec	limentation, fractionation.
development, technology in People's Re	mology, economic	oil drive, magnetic suspension, 900,000 g;	
development, technology in 1 copie's Ki	1966 Nov. p. 37-45	-t	1951 June p. 42-51
mechanical harvesting, cotton picker, tom	ato harvester, hav cuber	air masses, atmospheric circulation, hurricanes	
cherry picker, grain combine	1967 Aug. p. 50–59	tropical origin of hurricanes weather satellites, Tiros, telemetry, atmosph	1957 Aug. p. 33–39 [847]
sulfur, sulfuric acid, Frasch process, sulfur	r demand-and-supply	budget of Earth, videocameras, photograp	hio weather more weather
production	1970 May p. 62–72	forecasting	1961 July p. 80–94
land reform, food supply, population grov	vth, F.A.O., human nutrition,	air pollution, catalysis, combustibility, fly ash, o	
F.A.O. Indicative World Plan	1970 Aug. p. 54-69 [1186]	fine particles	1950 Dec. p. 50-53
China, economic development, rice, hybrid	d wheat, hybrid rice,	smog, atmospheric inversion	1952 May p. 15-19
irrigation, livestock	1975 June p. 13-21	smog, 'blue haze', atmospheric inversion, par	ticulates, ozone,
center-pivot irrigation, irrigation, ground		peroxides, photochemistry	1955 May p. 62-72
herbicide, mulch, weed control, tillage with		camouflage, evolution, melanism, moths, spec	
and the forest control of the late of the first section of	1977 Jan. p. 28–33 [1349]	genetics, mutation, genetic variation, evolu	
drip irrigation, irrigation, trickle irrigation		Part As and the Part As Aut of the Assessment	1959 Mar. p. 48-53 [842]
chemical revolution	1952 Apr. p. 36	climate, carbon dioxide 'window', meteorolog	y, fossii fuel, threat of 1959 July p. 41-47 [823]
no-tillage farming drip irrigation	1968 Aug. p. 46 1975 Aug. p. 48	'greenhouse effect' bronchitis, emphysema, public health, smog, o	
plowless farming	1975 Nov. p. 60	U.S. cities, smog and public health	1961 Oct. p. 49-57 [612]
agriculture, see: agronomy, agricultural syste		smog, automobile emissions, ozone, urban tra	
and the like	,	control in Los Angeles	1964 Jan. p. 24-31 [618]
agronomy, soil structure, chernozems, podzol	ls, latozols, tundra, alluvial	aerodynamics, microclimate, micrometeorolog	y, fluid dynamics,
soils, ecology of soil, soil erosion, the soi		troposphere, meteorology, turbulence, atmo	spheric phenomena near
management	1950 July p. 30–39	the ground cities, water supply, sewage disposal, smog, wa	1964 Oct. p. 62–76
corn, hybrid corn, technology and promise	of hybrid com 1951 Aug. p. 39–47	Los Angeles, New York, metabolism of cities	1965 Sept. p. 178–190
auxins, plant growth, oak, giberellin, functi		automobile, electric automobile, battery, weigh	it, cost, performance of
durins, plant 6,0 %th, out, proceeding tanon	1957 Apr. p. 125–134 [11]	electric automobile	1966 Oct. p. 34-40
climate, plant growth, greenhouse, photope	eriodicity, day-night	cities, climate, heat emission, heat pollution, m	icroclimate, infrared
temperature, 'phytotron', environment si		photography, heat island, climate of cities	67 Aug. p. 15-23 [1215]
	1957 June p. 82–94	cloud seeding, water cycle, water drop, ice cryst	ale for inversion layer.
Lysenko, genetics, potato virus, virus diseas	se, vernanzanon, me 1962 Nov. p. 41–49	smog	968 Dec. p. 74-82 [876]
Lysenko affair irrigation, sea water, salt-water agriculture,		air transport, technology assessment, science po	licy, automobile
migation, sea water, suit water agriculture,	1967 Mar. p. 89-96	transportation, noise pollution, technology as	sessment institutions
plant hybrids, wheat, hybrid wheat, food pr	roduction	proposed	970 Feb. p. 13-21 [332]
	1969 May p. 21–29	rickets, vitamin D, ultraviolet radiation, osteoge	nesis, calcium 70 Dec. p. 76-91 [1207]
chemical mutagens, plant breeding	1971 Jan. p. 86-95 [1210]	metabolism, epidemiology, sunlight 19 climate, atmospheric circulation, carbon dioxide	'window' particulates,
corn, lysine, plant breeding, plant protein, l	numan nutrition, 1971 Aug. p. 34–42 [1229]	ozone, temperature of Earth, human activity a	and climatic change
malnutrition, high-lysine corn	te plant protein	1	971 Jan. p. 32-42 [894]
legumes, nitrogen fixation, soybean product	1974 Feb. p. 14–21	corona discharge, electrocoating, fly ash, electro-	statics, photocopying,
grain, proteins, plant protein, plant hybrids	Triticale	xerography, electrostatic precipitation and sep	eration
	19/4 Aug. p. 12~00	automobile engines, rotary engine, Wankel engin	1972 Mar. p. 46-58
disease-resistant plants, plant breeding, plan	nt disease, fungal infection,	automobile engines, totally engine, wanter engin	1972 Aug. p. 14-23
plant pathogens, sugarcane, mechanism o	1975 Jan. p. 80-88 [1313]	Clean Air Act, emission standards, Environment.	al Protection Agency
plants agricultural economics, forage crops, grasses	hay Jegumes, livestock		1973 June p. 14-21
feed, ruminants, silage, Rhizobium bacter	ia 1976 Feb. p. 60–75	evolution, melanism, moths, gene mutation, popu	lation genetics,
'green revolution', food and agriculture, mai	ze, potatoes, Mexican		5 Jan. p. 90-99 [1314] 1963 Mar. p. 74
ioultura	1970 Schr. b. 150-150	effect of rocket exhaust on upper-air asbestos dust carcinogen	1964 Dec. p. 64
t	re, technology transier,	Los Angeles carbon monoxide emission control	1965 May p. 52
monsoons, irrigation, fertilizers, rice, when	at, hybrid crop plants 1976 Sept. p. 154–163	auto emission standards, safety standards	1965 Aug. p. 44
crop yields, plant breeding, rice, wheat, maiz	re, food and agriculture,	increased precipitation downwind from industry	1968 Apr. p. 49
crop yields, plant breeding, fice, wheat, man		sulfur dioxide	1968 Nov. p. 56 1970 Nov. p. 44
plant genetics Southern leaf blight	1970 Oct. p. 54	U.S. clean-air auto race cadmium, toxic metal	1971 Aug. p. 47
plant origins, sweet potato	1972 Sept. p. 68	tournallution automobile engines	1971 Sept. p. 80
high protein sorghum	1974 Jan. p. 51 1976 Aug. p. 44D	automobile engines, catalytic converter	1973 Apr. p. 44
barley, salt-tolerant crops	1976 Oct. p. 60	t DG for internal combustion fuel:	1973 Sept. p. 69
herbicide, nitrogen stabilizer ailanthus, city trees, pollution effects, tree cloni	ing ginkgo, London plane,	automobile exhaust-emission standard automobile engines, fuel economy	1975 Apr. p. 53 1977 Jan. p. 43
Norway maple	1976 Nov. p. 110-118	air pressure, acoustic pulses, lightning, thunder	1975 July p. 80-90
4		was processor by the state of t	

aluminum 'soldering', by ultrasonics 1953 Sept p 80	American soldiers, public opinion, attitude survey, social discrimination,
all eolar collapse, acute respiratory failure, intensive care, tracheostomy,	sociology, studies of attitudes and morale of U.S. troops during
lung, emphysema, pathogeness and treatment of acute respiratory failure 1969 Nov p 23-29	World War II, including experiments in racial integration of military units 1949 May p 11–15
failure 1969 Nov p 23–29 alveoli, lung, human physiology, breathing, mechanism of breathing	America's Cup race, yachting, yacht design 1974 Dec p 64
1960 Jan p 138–148	Amerindian, Hopi Indians, Tewa Indians, cultural assimilation, Pueblo
lung collapse, premature infants, lecithin, breathing, surface tension,	Indians 1957 June p 126–136
surfactant, hyaline membrane disease, soaplike agents regulate	Havasupai, Cohonina, Paleolithic culture, prehistoric man in the
surface tension in lungs 1962 Dec p 120–130	Grand Canyon 1958 Feb p 97–102
gas exchange, thorax, lung, pulmonary ventulation, breathing, human	racial discrimination, genocide, cultural assimilation, civil rights, persisting identity of Amerindians 1960 Feb p 37–45
physiology, vital capacity, mechanics and physiology of breathing, anatomy of lung 1966 Feb p 56-68 [1034]	persisting identity of Amerindians 1960 Feb p 37–45 mining, gypsum, New World archeology, prehistoric man in Mammoth
anatomy of lung 1966 Feb p 36-68 [1034] Ama, diving, diving women, Korea, Japan, breathing, human physiology,	cave 1960 July p 130–140
basal metabolism, adaptation 1967 May p 34-43	Hopewell cult, burial mounds, New World archeology
amanita, mycology, fungi, wheat rust, ergot, potato blight, morel,	1964 Dec p 90–102
Penicillium notatum, yeast, molds and men	Eskimo, burial site, New World archeology, 2000 B C, Port au Choix,
1952 Jan p 28–32 [115]	Newfoundland, skeletons 1970 June p 112–121 [657] Iroquois Confederacy, New World archeology, cannibalism, Onandaga
Amanita phalloides, fungi, mushrooms, mushroom poisoning, toxins, thioctic acid 1975 Mar p 90–101	tribe 1971 Feb p 32–42 [658]
thioctic acid 1975 Mar p 90–101 Amazon, tropical rain forest, developing countries, resource prospecting,	burial mounds, Cahokia, Mississippian culture, New World archeology
economic planning, forest management, mineral resources, electric	1975 Aug p 92–101 [688]
power, the Amazon frontier 1948 May p 11-14	New World archeology, burnal mounds, Labrador
amber, ants, insect evolution, insect census, insects in 'more than royal	1976 Nov p 122–129
tomb' 1951 Nov p 56–61 [838]	Amerindian antiquity, radiocarbon dating 1950 Nov p 26
amber mutants, bacteriophage, gene mapping, virus particles 1965 Feb p 70-78 [1004]	Amerindian prehistory, Teotihuacan, Middle America, Mexico, New World archeology, pre-Columbian metropolis 1967 June p 38–48
ambulatory care, medical care, medicine, physical incapacitation,	'Ames room', visual perception, distance perception, motion perception,
morbidity, mortality rates, hospital care, triage, health insurance,	optical illusion, size perception, illusions as clues to organization of
introduction to single-topic issue on medical care	perception 1951 Aug p 50-55
1973 Sept p 22–33	visual perception, personality, aniseikonic lenses, anxiety, 'Honi'
medical technology, medical care, hospital care, morbidity,	phenomenon, emotional relationships condition perception 1959 Apr p 56-60
international comparison of medical care systems 1975 Aug p 17–25	amino-acid deficiencies, dietary requirements, human nutrition,
American Association for the Advancement of Science, see AAAS	metabolism, food and agriculture 1976 Sept p 50-64
American Book Exchange, to rebuild science libraries 1948 Nov p 25	amino-acid pairing, genetic code, codon, DNA, RNA, Gamow proposes
American Chemical Society, see ACS	triplet codon 1955 Oct p 70–78
American Geological Institute, Earth sciences federate 1948 Dec p 26	amino-acid separation, ion exchange, alkalı, desalination
American Indian, see Amerindian American Institute of Biological Sciences, established 1948 May p 33	1950 Nov p 48-51 chromatography, fractionation, paper chromatography
American Institute of Physics, launches 'Physics Today'	1951 Mar p 35-41
1948 May p 33	amino-acid sequence, protein structure, protein synthesis, peptide bond,
American languages, speech, language, dialects, linguistics, changes in	hydrogen bonds, tertiary structure, nature, diversity and function of
U S speech 1950 Jan p 48-51 palatalization, speech, changes in American speech	proteins 1950 June p 32–41 [10] insulin, protein structure, first total sequence 1955 May p 36–41
1955 Aug p 78–83	virology, mutation, tobacco mosaic virus 1955 May p 36-41 1955 July p 74-78 [59]
American Negro, skin color, blood typing, recessive gene, marriage	insulin, sugar metabolism, cell membrane, human physiology, action of
preferences, population genetics, genetic meaning of race	ınsulın 1958 May p 99–106
1954 Oct p 80–85 public opinion, US whites, desegregation, attitude survey, racial	insulin, protein structure, ribonuclease, enzyme action, myoglobin,
segregation, sociology, longitudinal attitude study	resolution of atomic structure of three molecules 1961 Feb p 81-92 [80]
1956 Dec p 35–39	genetic code, tobacco mosaic virus, RNA nucleotides, protein
cities, racial discrimination, social geography, segregation,	synthesis, mutation, relation of RNA mutations to amino acid
metropolitan segregation 1957 Oct p 33-41	changes 1964 Oct p 46–54 [193]
desegregation, racial integration, public opinion, attitude survey, U S whites, longitudinal attitude study reported in 1956	allostenc enzymes, myoglobin, hemoglobin, X-ray diffraction, contour maps, folding of four chains, alpha chain, beta chain
1964 July p 16-23 [623]	1964 Nov p 64–76 [196]
racial discrimination, segregation, Puerto Ricans, housing, poverty	lysozyme, X-ray crystallography, enzyme-substrate complex protein
1965 Aug p 12–19 [626]	folding, three dimensional structure and action of lysozyme
black power, racial discrimination, group identity, economic power, ethnic groups, slavery, social deprivation 1967 Apr p 21–27 [633]	1966 Nov p 78–90 [1055]
ghetto, racial discrimination, unemployment, urban riots, public	protein structure, gene protein colinearity, DNA structure, mutation, gene mapping, base 1967 May p 80-94 [1074]
opinion, social class, 'riffraff theory' versus 'blocked opportunity'	antibodies, antibody molecule, immunoglobin Bence-Iones proteins
theory 1968 Aug p 15–21 [638]	heavy chain, light chain, antigen-antibody complex
intelligence, race, whites IQ, heredity, heredity, population genetics, science policy, social psychology, twins environment, racial	1967 Oct p 81–90 [1083]
discrimination 1970 Oct p. 19-29 (1199)	antibody molecule, myeloma, immunoglobin, antigen binding, Bence- Jones proteins, antibody amino-acid sequence determination
desegregation, racial integration, US whites, attitude survey, public	1970 Aug n 24 42 (1195)
opinion, longitudinal attitudes study 1971 Dec p 13-19 [673] racial discrimination, prejudice, public opinion attitude survey, U S	amino-acid substitution, sickle cell disease, malaria anemia, hemoglobin
whites, segregation, integration, longitudinal attitude study	1051 A 56 60
1978 June p 42-49 17071	evolution, proteins species specificity, computer analysis, cytochrome, phylogeny from amino-acid substitution 1969 July p 86-95 [1148]
American Nuclear Society, convenes 1054 Dec. 52	Cytochionic C. Diblein et dillion protein structure manner
American Revolution, white pine, North American forests, Royal Navy, King's Broad Arrow, colonial building 1948 June p. 48–53	mutation rate, 1.2 billion year record of evolution, ancient protein
King's Broad Arrow, colonial building 1948 June p 48–53	1072 4 50 50
	and last proteins, peptide chain, aipna neix, enzyme catalysis, lock-
	and-key theory, how is a protein made? 1953 Sept p 100–106

algal bloom, Dinoflagellata, marine ecology, acetylcholine, nerve poisons.	annum a market and the second
poisonous tide 1958 Aug p 92-9 bacteria, symbiosis, blue-green algae, simplest plants, resemblance to	feedback, cooperative enzymes, control of biochemical reactions
bacteria 1966 June p 74-8 algae, blue-green bacteria, cyanobacteria, gas vacuoles	1 1965 Apr p 36–45 [1008] chemical reaction, chemical kinetics, proton transfer enzymes
1977 Aug p 90_97 [1367	catalysis, chemical equilibrium, relaxation methods in chemistry
algebra, mathematics, science history, matrix, vector 1964 Sept p 70-78	alloying, mechanical alloying metallurgy metal pour describings
aigin, aigae, phytoplankton, kelp, food chain, agar 1952 Dec. p. 15-17	1976 May n. 40_48
algorithms, games theory, logic, computer theory, problem solving, Turing machine 1965 Nav. p. 68–100	alloys, eutectics, crystal structure, metallurgy, controlled entectics
incompleteness theory, mathematical proof, random numbers,	whiskers, controlled-cooling magnets 1967 Febra 86-92
algorithmic definition of randomness 1975 May p 47–52	materials technology, metals, crystal structure, grain boundaries, lattice
computer language, computer programming, hash table, binary search	gas, nature of metals
trees 1977 Apr p 63–80	1967 Sept p 90–100 metalliding, materials technology, diffusion, surface alloy, molten
computer science, Koenigsberg bridges, undecidable questions,	fluoride, electrolysis 1969 Aug p. 38–46
polynomial-time problems, exponential-time problems, efficiency of algorithms 1978 Jan. p. 96-109 (395)	crystal structure, dendrites, metal casting, metallurgy, solidification of
algorithms 1978 Jan p 96–109 [395] scheduling, combinatorial analysis, critical path scheduling, bin-	1574 BCC P 66-55
packing, mathematization of efficiency	superconductors, alloy by ultrarapid cooling 1964 Sept p 88 superconductors, intense magnetic fields 1970 May p 56
1978 Mar p 124-132 [3001]	superconductors, intense magnetic fields 1970 May p 56 alluvial soils, soil structure, chernozems, podzols, latozols, tundra,
'Alice in Wonderland', mathematics, logic, Carroll, Dodgson, Lewis	agronomy, ecology of soil, soil erosion, the soils of the world and
Carroll (Charles Lutwidge Dodgson), biography	their management 1950 July p 30-39
1956 Apr p 116–128	**
alienation, adolescence, family, racial discrimination, divorce, poverty, infant mortality, crime, suicide, drug addiction, changes in American	1951 Apr p 18–23
family structure 1974 Aug p 53-61 [561]	Alnico, cobalt-rare earth alloys, magnetism, permanent magnetis, magnetic domains, anisotropy 1970 Dec p 92–100
aligned crystals, crystal structure, materials technology, metals, alignment	alopecia areata, white hair 'overnight' 1972 Nov p 54
of crystals for control of mechanical and magnetic properties	alpha clustering, alpha particles, atomic nucleus, elementary particles,
1959 Apr p 125–141	nuclear clustering neutron, nuclear forces, nuclear surface, proton
alkali, 10n exchange, desalination, amino-acid separation	1972 Oct p 100–108
alkali bog, quicksand, fluidized sand 1953 June p 97–102	alpha decay, neutrino, elementary particles, neutron decay, beta decay, setting trap for detection of theoretical particle 1956 Jan p 58-68
alkali-metal anions, alkali-metal cations, cryptands, electron orbitals,	transuranium elements, isotopes, nuclear stability, beta decay,
solvated electrons, quantum mechanics 1977 July p 92-105 [368]	radioactive decay, 'synthetic' elements, periodic table, the
alkali-metal cations, alkali-metal anions, cryptands, electron orbitals,	'superheavy' elements beyond 103 1969 Apr p 56-67
solvated electrons, quantum mechanics 1977 July p 92–105 [368]	alpha helix, proteins, amino acids, peptide chain, enzyme catalysis, lock- and-key theory, how is a protein made? 1953 Sept p 100-106
alkaloids, anthropology, medicine, magic, psychoactive drugs, hypnosis psychiatry, lessons from primitive medicine 1948 Sept p 24–27	proteins, polypeptide chain, amino acids, hydrogen bonds, X-ray
plant physiology, morphine, strychnine, 'hemlock', physostigmine,	crystallography 1954 July p 51–59 [31]
caffeine, conline, quinine, cocaine, ricinine, LSD, human toxins in	collagen, proteins, beta chain, polypeptide synthesis, polymers, amino
plant physiology 1959 July p 113–121 [1087]	acids, synthesis and architecture of proteins
acetylcholine, acetylcholinesterase, nerve gases, nerve poisons, citric-	1957 Sept p 173–184 [7] amino acids, myoglobin, proteins, X-ray crystallography, 3 D structure
acid cycle, toxins, lethal mechanisms at cellular level 1959 Nov p 76-84	of protein molecule 1961 Dec p 96–11 [121]
hallucinogens, mental health, drug addiction, consciousness alteration,	proposed by Pauling 1951 Aug p 33
LSD, psychosis, psilocybin, mescaline, effects of LSD	alpha keratin, keratin, X-ray diffraction, protein structure, feather keratin 1969 Aug p 86-96 [1155]
1964 Apr p 29–37 [483]	alpha particles, alpha clustering, atomic nucleus, elementary particles,
butterfly, larvae, symbiosis, insect repellants, behavioral adaptation, plant evolution, mimicry, butterfly-plant association	nuclear clustering neutron, nuclear forces, nuclear surface, proton
1967 June p 104–113 [1076]	1972 Oct p 100–108
alkantonuria, agammaglobulinemia, gene expression, Wilson's disease,	alpha rhythms, electroencephalography, brain waves, medical diagnosis,
congenital anomalies, chemistry of hereditary disease, one gene-one	Fourier analysis, toposcope display, automata theory 1954 June p 54-63
enzyme hypothesis 1956 Dec p 126-136 all-weather imaging, aerial mapping, aerial photography, airborne radar,	alpine environment, cushion plant, pinks, lammergeier, Himalayan
radar, radar holography, side-looking radar	mountain ecology 1961 Oct p 68–78
1977 Oct p 84–95 [380]	Altar Mountains, Scythian culture, Siberia, tombs, refrigerated tombs, archeology, cloth, leather and wood artifacts preserved by
allergic reaction, autosensitivity, poison ivy, dermatitis, rheumatoid	refrigeration 1965 May p 100–109
arthritis, multiple sclerosis, delayed hypersensitivity 1960 Apr p 129-137	Altamira, cave art, cave paintings, Paleolithic archeology, sculpture,
antibodies antigen complement, immune response, lymphocytes virus	Lascaux 1968 Feb p 58–72
antigene virus disease autoimmune disease, immune complex	alternating current, electric light, lighting, zinc sulfide, technology of indoor lighting 1957 Aug p 40-47 [221]
disease glomerylonenhritis lymphocytic choriomeningitis, scium	electric power, high-voltage transmission, power transmission,
sickness 1973 Jan p 22–31 [1263] antibodies, antigens, immune response, anaphylactic shock,	hydroelectric power generation, corona discharge, economic
ammunology lymphocytes 19/3 NOV D 34-00 [1203]	advantages of high-voltage transmission 1964 May p 38-47 alternating-gradient synchrotron, 'eightfold way', omega-minus particle,
Plant amount reaction antigens antihodies, serum sickness,	bubble chamber, particle accelerator, high-energy physics U S
hypersensitivity	Broot bayen National Laboratory experiment 1964 Oct p 36-45
asthma, hypersensitivity, stress 1952 Aug p 28–30	Altintepe, Biblical archeology, Mount Ararat, Urartu, 800 B C culture at
asthma, hypersensitivity, stiess antigens, immune response, antibodies, hypersensitivity, phagocytosis, inflammatory response, leukocyte, thymus gland, lymphatic system, 1964 Feb. p. 58-64	Noah's landing-place 1967 Mar p 38-46 altitude, highest mountain Mount Chimboraro 1973 Feb p 49
and last amount of the second	-tanada adaptetion, brown (al. Opecina indians, accimianzation deer
allocation of time, television, content analysis, a critical review by	mice, hemoglobin, metabolic rate, exercise numan physiology at
educators - National and American Street and	high altitude 1970 Feb p 52-62 [1168] aluminates, materials technology, ceramics crystal structure, silicates
	heat resistance ionic bonds covalent bonds nature of ceramics
sequence, contour maps, folding of four chains, appear	1967 Sept p 112–124

1=~

earthquake distribution, mountain formation, plate tectonics, seismic	ethology, evolution, ritualized behavior, innate behavior, releaser
waves, volcanic activity 1973 Aug p 60–69 [910]	stimulus, evolution of behavioral patterns 1958 Dec p 67-78 [412]
androgens, ACTH, hormone, sexual characteristics, growth, thyroid-	incubator birds, eggs, chicken, fowl, ornithology, hatching eggs in hot
stimulating hormone, follicle-stimulating hormone, prolactin,	places 1959 Aug p 52–58
estrogens, secondary sexual characteristics, human physiology,	comparative psychology, prairie dogs, social behavior, territorial
endocrine system, chemical integrators of the body	behavior, innate behavior, learning behavior, field observation of
1957 Mar p 76–88 [1122]	prairie dog communities 1959 Oct p 128–140
Andromeda Galaxy, universe expansion, Cepheid variable, Clouds of	ornithology, crow, signal behavior, language of crows
Magellan, galactic yardstick, doubling of yardstick doubles size and	1959 Nov p 119–131
age of the universe 1953 June p 56-66	learning, stress, behavior disorders, stimulation in infancy
galactic rotation 1973 June p 30–36	1960 May p 80–86 [436]
galactic rotation galactic clusters, local clusters, M81 cluster, Virgo cluster	electric fishes, sodium ion potential, electroplaques, neurophysiology,
1977 Nov p 76–98 [390]	synapse, acetylcholine, nerve impulse, bioluminescence
anemia, sickle cell disease, malaria, amino-acid substitution, hemoglobin	1960 Oct p 115–124
anemia, sickie cen disease, maiaria, ammo-acid substitution, nemographi 1951 Aug p 56–59	ethology, social behavior, gulls, comparative psychology, evolution,
~ •	reconstructing gull family tree from behavior of species
sickle cell disease, hemoglobin S, human evolution, malaria	1960 Dec p 118–130 [456]
hematology, adaptive benefits of sickle-cell anemia 1956 Aug p 87-94 [1065]	ecological niche, symbiosis, reef ecology, cleaning behavior, behavioral
1930 Aug p 67-34 [1003]	integration of reef ecology 1961 Aug p 42–49 [135]
brain damage, environmental toxins, blood disorders, kidney disorder,	behavioral adaptation, ground squirrels, Mojave desert, kidney
lead poisoning, nerve disorders 1971 Feb p 15–23 [1211]	function, thermoregulation, desert adaptation, desert mammals'
chemotherapy, cyanate, genetic disease, hemoglobin, erythrocyte, sickle	
cell disease 1975 Apr p 44–50 [1319]	adaptations to heat and aridity 1961 Nov p 107–116
sickle cell disease, chemical basis of hemoglobin mutation	cichlid fish, marine iguana, rattlesnake, fighting behavior, comparative
1957 Aug p 58	psychology, oryx 1961 Dec p 112–122 [470]
anemometer, meteorology, radiosonde, rain gauge, barometer,	evolution, innate behavior, lovebird, sexual behavior, interspecies
hygrometer, instrumentation of meteorology 1951 Dec p 64-70	differentiation of behavior 1962 Jan p 88–98
anesthesia, pain, cocaine, procaine, surgery, medical research,	bioelectricity, physiological psychology, electrically controlled behavior
neuropharmacology, pharmacology, psychiatry, research in pain	1962 Mar p 50–59 [464]
suppression 1957 Jan p 70–82	marine biology, fish, schooling behavior, sensory systems for parallel
barbiturates, hypnotics, tranquilizers, sedatives, pharmacology	orientation 1962 June p 128–138 [124]
1958 Jan p 60-64	sharks, attack prevention, sensory systems, feeding behavior
semility hastened 1955 Dec p 54	1962 July p 60–68 [127]
dissociative anesthesia 1971 June p 56	Phalangida, harvestman, daddy longlegs, Arachnida, natural history
aneurysm, common etiology 1968 Dec p 50	1962 Oct p 119-128 [137]
anger, fear, adrenalin, noradrenalin 1955 May p 74-81 [428]	archer fish, predator-prey relationship, natural history, Toxotes
fear, different adrenalins 1951 Nov p 40	1963 July p 100–108
angiogenesis, avascular tumors, cancer, tumor inhibition, tumor	arena behavior, bowerbirds, sexual behavior, courtship display, releaser
vascularization, tumor angiogenesis factor (TAF)	stimulus, ethology, natural history 1963 Aug p 38-46 [1098]
1976 May p 58–73 [1339]	Antarctica, ornithology, skua, south polar skua 1964 Feb p 94–100
angiotensin, hypertension, atherosclerosis, stress, etiology and care of	chimpanzee, symbolic language, learning, operant conditioning, binary
hypertension 1948 Aug p 44–47	numbers, chimpanzee learning arithmatic 1964 May p 98-106 [484]
hypertension, kidney function, human physiology, isolation of	brain stimulation, neurotransmitters, hormone, drive activation by
angiotension 1959 Mar p 54–58	injection of chemicals into rat brain 1964 June p 60–68 [485]
angiotonin, see angiotensin	population control, territorial behavior, reproduction, homeostatic
Anglo-Saxon King, Sutton Hoo, ship burial, a treasure hoard	population controls 1964 Aug p 68–74 [192]
1951 Apr p 24–30	habitat selection, ecological adaptation, heredity, learning field
angular momentum, dust cloud hypothesis, binary stars, photophoresis,	experiments with mice 1964 Oct p 109–116 [195]
gravitational collapse, element abundance, origin of the Earth	Arachnida, false scorpion, natural history, Chelifer canroides
1952 Oct p 53–61 [833]	1966 Mar p 95–100 [1039]
ultracentrifuge, ultra-high speed rotation, magnetic flotation, molecular	sex differences, hypothalamus, testosterone, physiological psychology,
weight determination, 90 million r p s 1961 Apr p 134-147	sex hormones, pituitary hormones, sex differences in rat brain, effect
pulsar, white dwarfs, neutron stars, gravitational collapse, 'lighthouse'	of testosterone 1966 Apr p 84-90 [498]
model proposed 1968 Oct p 25–35	aggression, rats, social behavior, territorial behavior, natural history,
Crab Nebula, neutron stars, pulsar, radio source, stellar evolution,	Rattus rattus, Rattus norvegicus 1967 Jan p 78-85
gravitational collapse 1971 Jan p 48–60	nervous system, vision, reflex arc, motor neuron, interneuron, small
animal behavior, opossum, marsupial, death-simulation, playing possum by opossum and other animals 1950 Jan p 52-55	neuron systems as models for study 1967 May p 44-52 [1073]
	evolution, fossil tracks, fossil animal tracks, burrows
sexual behavior, courtship display 1950 July p 52-55 hibernation, metabolic rate, thermoregulation, body temperature	1967 Aug p 72–80 [872]
1950 Dec p 18–21	speciation, gulls, evolution, sexual behavior, innate behavior, ethology,
	species discrimination, Larus, eye rings 1967 Oct p 94-102 [1084]
	learning, cerebral cortex, striatum, bird nervous system, crows, pigeons,
stickleback, courtship display, sexual behavior, displacement activity,	learning, cerebral cortex, striatum, bird nervous system, crows, pigeons, canaries, chickens 1968 June p. 64–76 [515]
stickleback, courtship display, sexual behavior, displacement activity, ethology 1952 Dec. p. 22-26 [414]	learning, cerebral cortex, striatum, bird nervous system, crows, pigeons, canaries, chickens 1968 June p 64–76 [515] cryptozoa, Berlese funnel, natural history, ecological niche
stickleback, courtship display, sexual behavior, displacement activity, ethology 1952 Dec p 22-26 [414] curiosity, rhesus monkeys, problem solving, genetic traits	canaries, chickens 1968 June p 64-76 [515] cryptozoa, Berlese funnel, natural history, ecological niche, cryptosphere, life under rocks and rotting logs
stickleback, courtship display, sexual behavior, displacement activity, ethology 1952 Dec p 22-26 [414] curiosity, rhesus monkeys, problem solving, genetic traits 1954 Feb p 70-75	learning, cerebral cortex, striatum, bird nervous system, crows, pigeons, canaries, chickens 1968 June p 64-76 [515] cryptozoa, Berlese funnel, natural history, ecological niche, cryptosphere, life under rocks and rotting logs
stickleback, courtship display, sexual behavior, displacement activity, ethology 1952 Dec p 22–26 [414] curiosity, rhesus monkeys, problem solving, genetic traits 1954 Feb p 70–75 zoos, captivity 1954 May p. 76–80	learning, cerebral cortex, striatum, bird nervous system, crows, pigeons, canaries, chickens 1968 June p 64-76 [515] cryptozoa, Berlese funnel, natural history, ecological niche, cryptosphere, life under rocks and rotting logs 1968 July p 108-114 [1112] marine birds, phalarope, sexual behavior, parental care, sex role,
stickleback, courtship display, sexual behavior, displacement activity, ethology 1952 Dec p 22–26 [414] curiosity, rhesus monkeys, problem solving, genetic traits 1954 Feb p 70–75 200s, captivity 1954 May p 76–80 courtship display, gulls, releaser stimulus, displacement activity, ethology	canaries, chickens 1968 June p 64–76 [515] cryptozoa, Berlese funnel, natural history, ecological niche, cryptosphere, life under rocks and rotting logs 1968 July p 108–114 [1112] marine birds, phalarope, sexual behavior, parental care, sex role, hormone 1968 June p 104 111
stickleback, courtship display, sexual behavior, displacement activity, ethology 1952 Dec p 22–26 [414] curiosity, rhesus monkeys, problem solving, genetic traits 1954 Feb p 70–75 200s, captivity 1954 May p 76–80 courtship display, gulls, releaser stimulus, displacement activity, ethology 1954 Nov p 42–46 spider webs, drug action, abnormal behavior 1954 Dec. p. 80–86	learning, cerebral cortex, striatum, bird nervous system, crows, pigeons, canaries, chickens 1968 June p 64-76 [515] cryptozoa, Berlese funnel, natural history, ecological niche, cryptosphere, life under rocks and rotting logs 1968 July p 108-114 [1112] marine birds, phalarope, sexual behavior, parental care, sex role, hormone 1969 June p 104-111 innate behavior, learning, parental care, feeding behavior, sea gull
stickleback, courtship display, sexual behavior, displacement activity, ethology 1952 Dec p 22–26 [414] curiosity, rhesus monkeys, problem solving, genetic traits 1954 Feb p 70–75 200s, captivity 1954 May p 76–80 courtship display, gulls, releaser stimulus, displacement activity, ethology 1954 Nov p 42–46 spider webs, drug action, abnormal behavior 1954 Dec. p. 80–86	learning, cerebral cortex, striatum, bird nervous system, crows, pigeons, canaries, chickens 1968 June p 64–76 [515] cryptozoa, Berlese funnel, natural history, ecological niche, cryptosphere, life under rocks and rotting logs 1968 July p 108–114 [1112] marine birds, phalarope, sexual behavior, parental care, sex role, hormone 1969 June p 104–111 innate behavior, learning, parental care, feeding behavior, sea gull chicks
stickleback, courtship display, sexual behavior, displacement activity, ethology 1952 Dec p 22–26 [414] curiosity, rhesus monkeys, problem solving, genetic traits 1954 Feb p 70–75 zoos, captivity 1954 May p 76–80 courtship display, gulls, releaser stimulus, displacement activity, ethology 1954 Nov p 42–46 spider webs, drug action, abnormal behavior 1954 Dec p 80–86 tawny owl, nocturnal animals, predator-prey relationship	learning, cerebral cortex, striatum, bird nervous system, crows, pigeons, canaries, chickens 1968 June p 64–76 [515] cryptozoa, Berlese funnel, natural history, ecological niche, cryptosphere, life under rocks and rotting logs 1968 July p 108–114 [1112] marine birds, phalarope, sexual behavior, parental care, sex role, hormone 1969 June p 104–111 innate behavior, learning, parental care, feeding behavior, sea gull chicks 1969 Dec p 98–106 [1165] locomotion, herpetology, snake, lateral, rectilinear, concertina and
stickleback, courtship display, sexual behavior, displacement activity, ethology 1952 Dec p 22–26 [414] curiosity, rhesus monkeys, problem solving, genetic traits 1954 Feb p 70–75 2005, captivity 1954 May p 76–80 courtship display, gulls, releaser stimulus, displacement activity, ethology 1954 Nov p 42–46 spider webs, drug action, abnormal behavior 1954 Dec p 80–86 tawny owl, nocturnal animals, predator-prey relationship 1955 Oct p 88–98 bowerbirds sexual behavior, courtship display arena behavior	learning, cerebral cortex, striatum, bird nervous system, crows, pigeons, canaries, chickens 1968 June p 64-76 [515] cryptozoa, Berlese funnel, natural history, ecological niche, cryptosphere, life under rocks and rotting logs 1968 July p 108-114 [1112] marine birds, phalarope, sexual behavior, parental care, sex role, hormone 1969 June p 104-111 innate behavior, learning, parental care, feeding behavior, sea gull chicks 1969 Dec p 98-106 [1165] locomotion, herpetology, snake, lateral, rectilinear, concertina and sidewinding modes of progression 1970 June p 23 06 [1169]
stickleback, courtship display, sexual behavior, displacement activity, ethology 1952 Dec p 22–26 [414] curiosity, rhesus monkeys, problem solving, genetic traits 1954 Feb p 70–75 200s, captivity 1954 May p 76–80 courtship display, gulls, releaser stimulus, displacement activity, ethology 1954 Nov p 42–46 spider webs, drug action, abnormal behavior 1954 Dec p 80–86 tawny owl, nocturnal animals, predator-prey relationship 1955 Oct p 88–98 bowerbirds sexual behavior, courtship display, arena behavior, Australian bowerbird, natural history 1956 June p 48, 52	learning, cerebral cortex, striatum, bird nervous system, crows, pigeons, canaries, chickens 1968 June p 64-76 [515] cryptozoa, Berlese funnel, natural history, ecological niche, cryptosphere, life under rocks and rotting logs 1968 July p 108-114 [1112] marine birds, phalarope, sexual behavior, parental care, sex role, hormone 1969 June p 104-111 innate behavior, learning, parental care, feeding behavior, sea gull chicks 1969 Dec p 98-106 [1165] locomotion, herpetology, snake, lateral, rectilinear, concertina and sidewinding modes of progression 1970 June p 82-96 [1180] albatross, evolution, bird flight, sexual behavior, soaring, natural history
stickleback, courtship display, sexual behavior, displacement activity, ethology 1952 Dec p 22–26 [414] curiosity, rhesus monkeys, problem solving, genetic traits 1954 Feb p 70–75 2005, captivity 1954 May p 76–80 courtship display, gulls, releaser stimulus, displacement activity, ethology 1954 Nov p 42–46 spider webs, drug action, abnormal behavior 1954 Dec p 80–86 tawny owl, nocturnal animals, predator-prey relationship 1955 Oct p 88–98 bowerbirds sexual behavior, courtship display, arena behavior, Australian bowerbird, natural history 1956 June p 48–52 bird song animal communication, learning innate behavior	learning, cerebral cortex, striatum, bird nervous system, crows, pigeons, canaries, chickens 1968 June p 64-76 [515] cryptozoa, Berlese funnel, natural history, ecological niche, cryptosphere, life under rocks and rotting logs 1968 July p 108-114 [1112] marine birds, phalarope, sexual behavior, parental care, sex role, hormone 1969 June p 104-111 innate behavior, learning, parental care, feeding behavior, sea gull chicks 1969 Dec p 98-106 [1165] locomotion, herpetology, snake, lateral, rectilinear, concertina and sidewinding modes of progression 1970 June p 82-96 [1180] albatross, evolution, bird flight, sexual behavior, soaring, natural history
stickleback, courtship display, sexual behavior, displacement activity, ethology 1952 Dec p 22–26 [414] curiosity, rhesus monkeys, problem solving, genetic traits 1954 Feb p 70–75 2005, captivity 1954 May p 76–80 courtship display, gulls, releaser stimulus, displacement activity, ethology 1954 Nov p 42–46 spider webs, drug action, abnormal behavior 1954 Dec p 80–86 tawny owl, nocturnal animals, predator-prey relationship 1955 Oct p 88–98 bowerbirds sexual behavior, courtship display, arena behavior, Australian bowerbird, natural history 1956 June p 48–52 bird song animal communication, learning innate behavior	learning, cerebral cortex, striatum, bird nervous system, crows, pigeons, canaries, chickens 1968 June p 64–76 [515] cryptozoa, Berlese funnel, natural history, ecological niche, cryptosphere, life under rocks and rotting logs 1968 July p 108–114 [1112] marine birds, phalarope, sexual behavior, parental care, sex role, hormone 1969 June p 104–111 innate behavior, learning, parental care, feeding behavior, sea gull chicks 1969 Dec p 98–106 [1165] locomotion, herpetology, snake, lateral, rectilinear, concertina and sidewinding modes of progression 1970 June p 82–96 [1180] albatross, evolution, bird flight, sexual behavior, soaring, natural history 1970 Nov p 84–93 [1204] mollusks, central nervous system, neurophysiology
stickleback, courtship display, sexual behavior, displacement activity, ethology 1952 Dec p 22–26 [414] curiosity, rhesus monkeys, problem solving, genetic traits 1954 Feb p 70–75 200s, captivity 1954 May p 76–80 courtship display, gulls, releaser stimulus, displacement activity, ethology 1954 Nov p 42–46 spider webs, drug action, abnormal behavior 1954 Dec p 80–86 tawny owl, nocturnal animals, predator-prey relationship 1955 Oct p 88–98 bowerbirds sexual behavior, courtship display, arena behavior, Australian bowerbird, natural history 1956 June p 48–52 bird song animal communication, learning innate behavior 1956 Oct p 128–138 [145] learning imprinting developmental psychology, effect of early life on	learning, cerebral cortex, striatum, bird nervous system, crows, pigeons, canaries, chickens 1968 June p 64–76 [515] cryptozoa, Berlese funnel, natural history, ecological niche, cryptosphere, life under rocks and rotting logs 1968 July p 108–114 [1112] marine birds, phalarope, sexual behavior, parental care, sex role, hormone 1969 June p 104–111 innate behavior, learning, parental care, feeding behavior, sea gull chicks 1969 Dec p 98–106 [1165] locomotion, herpetology, snake, lateral, rectilinear, concertina and sidewinding modes of progression 1970 June p 82–96 [1180] albatross, evolution, bird flight, sexual behavior, soaring, natural history 1970 Nov p 84–93 [1204] mollusks, central nervous system, neurophysiology 1971 Feb p 68–75 [1212] biological clock, circadian rhythm circannual the the heberset.
stickleback, courtship display, sexual behavior, displacement activity, ethology 1952 Dec p 22–26 [414] curiosity, rhesus monkeys, problem solving, genetic traits 1954 Feb p 70–75 2005, captivity 1954 May p 76–80 courtship display, gulls, releaser stimulus, displacement activity, ethology 1954 Nov p 42–46 spider webs, drug action, abnormal behavior 1954 Dec p 80–86 tawny owl, nocturnal animals, predator-prey relationship 1955 Oct p 88–98 bowerbirds sexual behavior, courtship display, arena behavior, Australian bowerbird, natural history 1956 June p 48–52 bird song animal communication, learning innate behavior	learning, cerebral cortex, striatum, bird nervous system, crows, pigeons, canaries, chickens 1968 June p 64-76 [515] cryptozoa, Berlese funnel, natural history, ecological niche, cryptosphere, life under rocks and rotting logs 1968 July p 108-114 [1112] marine birds, phalarope, sexual behavior, parental care, sex role, hormone 1969 June p 104-111 innate behavior, learning, parental care, feeding behavior, sea gull chicks 1969 Dec p 98-106 [1165] locomotion, herpetology, snake, lateral, rectilinear, concertina and sidewinding modes of progression 1970 June p 82-96 [1180] albatross, evolution, bird flight, sexual behavior, soaring, natural history 1970 Nov p 84-93 [1204] mollusks, central nervous system, neurophysiology

professo molemonated activities to the second	
proteins, polypeptide chain, hydrogen bonds, X-ray crystallography, alpha helix	amphibian metamorphosis, tadpole, frog, thyroid hormone, chemistry of
	amphibian metamorphosis 1963 Nov p. 110-118 (170)
105511, bone, mollusk shells, paleontology, paleobiochemistry	amphora Classical probables and 1903 NOV p 110-118 [1/0]
1956 July n. 83_92 (101	
collagen, proteins, beta chain, alpha helix, polypeptide synthesis	amplification, see amplifiers 1954 Nov p 98–104
polymers, synthesis and architecture of proteins	amplifiers electrones electrones
1957 Sept. p. 173-184 17	amplifiers, electronics, electron tubes, communication technology,
myoglobin, proteins, X-ray crystallography, alpha helix, 3-D structure	opties, bathode-ray tube, communication, power,
of protein molecule 1961 Dec. p. 96–11 (12)	thermionic emission, state of the technology 1950 Oct p 30-39
evolution, hemoglobin, myoglobin, molecular evolution, evolutionary	
distance measured by amino-acid substitution	circuitry, noise 1959 June p 118–129
1965 May p 110–118 [1012]	fluid dynamics, switching, Coanda effect, logic gates
DNA, protein synthesis, genetic code, mutation, molecular biology,	
triplets RNA antigodon sibosomos templeto makita hanala	anaerobic metabolism, ruminants, metabolism, symbiosis, cellulose
triplets, RNA, anticodon, ribosomes, triplets, wobble hypothesis	digestion, fermentation, how cows digest grass 1958 Feb p 34-38
1966 Oct p 55-62 [1052]	animal behavior, cryptobiotic animals, metabolism, suspended
protein synthesis, formylmethionine, ribosome, mRNA, tRNA,	animation, Nematoda Rotifera Tardiorada 1971 Dec. p. 30-36
initiation of protein synthesis 1968 Jan p 36-42 [1092]	ATP, muscle, glycolysis, aerobic metabolism, oxygen debt, lactic acid
insulin, automatic synthesis, protein synthesis, peptide bond, 'solid	formation, aerobic metabolism, energy mechanisms in muscle
phase' method of synthesis, polystyrene beads	1972 Mar p 84-91 [1244]
1968 Mar p 56-74 [320]	analgesics, aspirin, inflammation, fever, histamine reaction,
left from right, amino acid isomers separated 1949 Nov p 31	bronchospasm, anaphylactic shock, mode of action and hazards of
in Precambrian rock 1968 May p 50	most widely used drug 1963 Nov p 96–108
amino acids synthesized, Miller-Urey experiment 1953 July p 42	
ammonia, nitrogen, biological nitrogen fixation, nitrifiers, denitrifiers,	morphine, opium, poppy, heroin, codeine, Bentley's compound, drug
	action, search for strong, safe analgesic 1966 Nov p 131-136 [304]
	analog-to-digital conversion, computer, automatic control, solid-state
solvated electrons, radiolysis, ionization, radiation chemistry, sodium,	electronics, digital computer, analogue computer, the universal
alkalı metals 1967 Feb p 76–83	machine 1952 Sept p 116–130
ammonia manufacture, biological nitrogen fixation, Haber process,	computer applications, syntactic analysis, computer modeling,
metallo-organic process, nitrogen fixation 1974 Oct p 64-70	computer technology, computer as instrument and as 'actor' in
ammonia maser, atomic clock, cesium clock, maser, zenith tube, mercury	science 1966 Sept p 160-172
mirror, improvements on sidereal time 1957 Feb p 71-82 [225]	analogue computer, computer technology, digital computer, relay
amniocentesis, enzyme deficiency, genetic disease, prenatal genetic	computers, binary arithmetic, logic, automatic control, computer
diagnosis, hemophilia, Down's syndrome, Tay-Sachs disease,	memory, control systems, status of 'mathematical machines'
chromosomal anomalies 1971 Nov p 34-42 [1234]	1949 Apr p 28-39
enzyme deficiency, fat metabolism, genetic disease, Tay-Sachs disease,	computer, automatic control, solid state electronics, analog-to-digital
lipids, lipid-storage diseases, 10 lipid-storage diseases	conversion, digital computer, the universal machine
1973 Aug p 88-97	1952 Sept p 116–130
amoebae, social amoebae, slime mold, Dictyostelium acrasin, role of	ancient instruments, astrolabe, planispheric astrolabe, science history,
acrasin in cell aggregation 1949 June p 44-47	how they did it then 1974 Jan p 96-106
cell, cytology, sol-gel reaction, high pressure, effect of high pressure on	analogue storage media, information theory, statistics, thermodynamics,
cellular activity 1958 Oct p 36-43	noise, redundancy, digital storage media, information compression,
cell differentiation, social amoebae, slime mold, Dictyostelium cell	automatic control, information 1952 Sept p 132-148
aggregation, acrasin 1959 Dec p 152–162	analytic geometry, Fermat, Descartes, mathematics history, conic
phagocytosis, cell motility, cytoplasmic streaming, sol-gel reaction,	sections, Euler, mathematics 1949 Jan p 40-45
front contraction theory of amoeboid motion	creativity, mathematical invention, set theory, Fermat's last theorem,
1962 Feb p 112–122 [182]	innovation in mathematics 1958 Sept p 66-73
social behavior, slime mold, Dictyostelium, chemotaxis	Cartesian geometry, mathematics, philosophy, Descartes, Rene
communication, spatial orientation 1963 Aug p 84-93 [164]	Descartes, biography 1959 Oct p 160–173
acrasın, adrenalın, social amoebae, slime mold, Dictyostelium, cyclic	analytical engine, Babbage, computer, difference engine, digital
AMP 1969 June p 78–91	computer, life and work of Charles Babbage 1952 Apr p 66-72
amorphous metals, glassy metals 1978 Apr p 86	anaphylactic shock, aspirin, inflammation, analgesics, fever, histamine
amorphous polymers, polymer microstructure, random-coil model,	reaction, bronchospasm, mode of action and hazards of most widely
semicrystalline polymers, synthetic polymers, thermoplastic	used drug 1963 Nov p 96-108
polymers 1975 Dec p 96~106	antibodies, antigens, allergic reaction, immune response, immunology,
amorphous semiconductors, switching, glass, memory, threshold switch,	lymphocytes 1973 Nov p 54-66 [1283]
memory switch 1969 Nov p 30-41	Anatolia, Arzawa, archeology, Hittites 1955 July p 42-46
nonperiodic systems, Ovshinsky devices, quantum mechanics,	Assyrian civilization, commerce, 2000 B C, trade patterns
semiconductor technology, switching phenomena	1963 Feb p 96-106
1977 May p 36–48 [362]	Anatolian plateau, Neolithic archeology, Catal Huyuk
Ovshinsky devices 1972 Mar p 40	1964 Apr p 94–104 [620]
amorphous solid, materials technology, glass fiber, optical glass, ceramics,	anatomy, see human anatomy, comparative anatomy and the like
	anchovy, Peru Current, guano, seagulls, El Niño, upwelling
opictal structure solid-state electronics. X-ray crystallography, inclais,	1954 Mar p 66–71
comiconductor, nonmetals, materials technology, electrical	anchovy crisis, El Niño, fishing, upwelling, Peru Current Peruvian
1907 Sept p 80-89	anchovy dysaster. El Niño and overfishing 1973 June p 22–29 [1273]
and the broken close supercooling crystal structure, geometry of	anchovy disaster, El Niño and overfishing 1977 July p 60 ancient instruments, Antikythera, planetary motion, Greek computer.
1 4	science history, Classical archeology, computer technology, 2,000-
omphetomines behavior encephalitis, hyperactive child, temperament,	user old computer 1959 June p 60–67
Janearo morcebly innote dispass Stilliulia	analogue computer, astrolabe planispheric astrolabe, science history,
[9/0 Apr p 7+70 [521]	how that did it then 1974 Jan 19 96-106
amphibian, frog, color vision, retina, retinal image-processing, visual	ancheology, writing, Elamite culture, Mesopotamian
	culture, Persia Sumer, Iran Tepe Yanya
[704 Will P 110 139	19/1 June D 102~111 10001
metamorphosis, frog, thyroxin, pituitary gland, hypothalamus,	Andes, anthropology, Paleolithic culture, stone tools, obsidian, El Inga
neurosecretory system, hormone, chemistry of amount 76–88 [1042]	site, prehistoric man in the Andes 1963 May p 116–128
metamorphosis 1900 May p 10 00 [15 12]	

whaling industry, blue whale, endangered species, Ir	nternational	cultural evolution, sociology, multilinear human c	culture changes 1956 May p 69–80
	1966 Aug p I3–2I	nonverbal communication, posture, cultural relati	• •
Antarctic glacier, Earth, glaciation, climate, sea level, h	Sept p 84–92 [809]	•	1957 Feb p 122-132
Antarctic Ocean, Antarctica, ocean circulation, Antarc		Neanderthal man, human evolution, co-existence	of Homo sapiens and
physical oceanography of Antarctic 1962 Se	pt p 113–128 [860]	Neanderthal man 195	57 Dec p 89–96 [844]
Antarctic Treaty, Antarctica, history of exploration, I	GY, introduction	nonverbal communication, pictograph, Easter Isla	
to a single-topic issue on Antarctica	1962 Sept p 60-63	human evolution, steatopygia, climate, human mi	1958 June p 61–68
inspection procedures Antarctica, Atka, oceanography, icebreaker, I G Y, in	1963 Nov p 65	population, genetic variation, ancient migration	and human diversity
single-topic issue on the planet Earth	1955 Sept p 50–55		Sept p 112-127 [604]
penguin, sexual behavior, behavioral adaptation, na	itural history	Paleolithic culture, stone tools, obsidian, Andes, I	
	1957 Dec p 44-51		1963 May p 116–128
history of exploration, I G Y, Antarctic Treaty, into	roduction to a	bride price, marriage contracts, Sebei tribe	1973 July p 74–85
	1962 Sept p 60–63	central-place theory, market networks, People's R Guatemala, rural markets	1975 May p 66–79
Earth magnetic field, 'whistlers', upper atmosphere, atmosphere-magnetic field-solar wind interaction	, solar wind, autora,	bison hunting	1971 June p 59
atmosphere-magnetic field-solar wind interaction	Sept p 74-83 [858]	human evolution, Lake Rudolf skull	1973 June p 39
climatology, solar radiation, atmospheric circulatio		human evolution, Ethiopian skull	1974 Dec p 64
Antarctica in Earth's heat budget 1962	Sept p 84-94 [859]	human evolution	1976 Oct p 57
ocean circulation, Antarctic convergence, Antarctic	Ocean, physical	North American prehistory	1977 June p 61
	ept p 113–128 [860]	see also social anthropology anti-histamines, puffing reduced by F D.A	1950 Aug p 30
glaciation, Antarctic continental glacier, ice, stratig	ept p 132–146 [861]	anti-scientific attitudes, fluoridation, public opinion	U 1
in glaciers ecological implications 1962 Segeology, glaciation, seismology, seismic mapping, A	Antarctic land mass.		55 Feb p 35–39 [453]
part continent-part archipelago	962 Sept p 151–166	antiballistic missile, see ABM	
fossil fauna, fossil flora, geology, paleontology, Glo	ossoptens, coal,	antibiotic hazard, from animal feeding	1952 Jan p 38
continental drift evidence 1962 Se	ept p 168–184 [863]	antibiotic resistance, hospital infections, staphyloco-	•
oceanography, marine biology, food chain, krill, bl	ue whale, ecology,	classical aseptic routines antibiotics, staphylococcus septicemia, toxicology	1959 Jan p 41–45
Antarctic convergence, biological province of Ai	962 Sept p 186–210	phosphorylation, cause of death from staphylo-	
fauna, flora, lichens, blue-green algae, ecology, An		pp,	1968 Feb p 84-94
life 1962 S	ept p 212-230 [865]	bacteria, infectious disease, drug resistance, gene	mutation, plasmids,
anımal behavior, ornithology, skua, south polar sk	ua		3 Apr p 18–27 [1269]
	1964 Feb p 94-100	antibiotics, aureomycin, virus disease, rickettsial dis	
penguin, animal migration, animal navigation, Ad	elie penguin 1966 Oct p 104–113	infection, 'broad spectrum' antibiotic infectious disease, toxicity, bacterial resistance, vi	1949 Apr p 18–23
navigation system seal, directional orientation, breathing, breathing l		new medical technology	1949 Aug p 26–35
1969 A	ug p 100-106 [1156]	biochemistry, enzymes, virus, citric-acid cycle, me	
ice perils Atka	1955 Apr p 52	enzymes, sulfa drugs, science, biochemistry 190	
IGY	1956 Jan p 45	noncellar eteortomy our successives ablasamaka	1950 Sept p 62–68
IGY IGY	1957 July p 65 1957 Oct p 58	penicillin, streptomycin, aureomycin, chloramphe disease, the antibiotic revolution	1952 Apr p 49–57
weapons test fallout	1957 Nov p 70	plant disease, rot, blight, smut, wilt disease, mold	
I G Y results reviewed	1958 Mar p 54	•	1955 June p 82-91
IGY	1958 May p 56	protein synthesis, streptomycin, genetic code, ribo	
IGY	1958 Aug p 49	mutation, 'misreadings' induced by antibiotic a	
Special Committee for Antarctic Research I G Y results	1958 Nov p 53 1959 Feb p 59	bacteria, drug resistance, mutation, DNA R-facto	1966 Apr p 102–109
reserved for science by treaty	1960 Jan p 70	resistance, multiple resistance	1967 Dec p 19–27
sub-glacial topography	1960 Mar p 86	staphylococcus septicemia, antibiotic resistance, t	oxicology, oxidative
results of scientific exploration	1960 Oct p 83	phosphorylation, cause of death from staphylo-	
research ships described US National Science Foundation research progr	1961 May p 80 am 1962 Oct p 60	chemotherapy, drug effects, liver function, pharm	1968 Feb p 84–94
antelope, animal husbandry, giraffe, elephant, buffa			1973 Sept p 102–112
hippopotamus, wildlife husbandry in Africa		actinomycin, DNA-actinomycin binding, mRNA	inhibition, protein
desert adaptation, thermoregulation, water drinks	ng, evaporation,	synthesis 1974	Aug p 82-91 [1303]
eland and oryx, survival without drinking	1969 Jan p 88–95	mutagenic streptomycin	1949 Aug p 24
antennae, artificial satellite, orbital motion, interfer astronomy, tracking station, satellite tracking	ometry, radio 1958 Jan p 23–29	show synergy plant-growth stimulants	1950 Sept p 46
anthocyanins, leaf color, chlorophyll, carotene, prin	nary synthesis of	misuse, livestock feed pens	1952 Oct p 48 1966 Oct p 44
aromatic compounds	1950 Oct p 40-43	antibodies, allergy, immune reaction, antigens, serui	m sickness
carotenoids, flower pigments, pigment synthesis,	flavonoids,	hypersensitivity	1948 July p. 26-29
biochemistry and genetics of flower pigments	64 June p 84-92 [186]	leukocyte, infection, phagocytosis, 'the first line o	f defense'
anthracene, crystallography, photosynthesis, electro	on transfer, exciton.	fertilization, antigen-antibody reaction, fertilizin	951 Feb p 48-52 [51]
plants, organic crystals, conjugated aromatic h	ydrocarbons	10	954 June p 70-75 [43]
	1967 Jan n 86-97	immunity, how antibodies are made, self-marker	hypothesis
anthropoid, primate evolution, fossil primates, hom of man			1954 Nov p 74 79
anthropology, medicine, magic, alkaloids, psychogo	964 July p 50–62 [622] Stive drugs, hypnosis	bacterial infection, blood proteins, gammaglobuli	n immunologi ticcuo
psychiatry, lessons from primitive medicine	1948 Sent n 24_27	grafts, agammaglobulinemia, hereditary immur	1957 July n 02 104
human evolution, culture as concept, science, and	thropology 1900-1950	antigens, antigen-antibody reaction gammaglobu	1957 July p 93–104
Kuanyama Ambo, social controls murder, mona	1950 Sept p 87-94	specificity	1057 Oct - 00 10c
	1950 Oct p 52–55	electrophoresis, immunoelectrophoresis, antigens	separation of
Halloween, Druid holiday	1951 Oct p 62-66	1960	Mar p 130-140 [84]

courtship display, turkeys, pecking order, sexual behavior, lek	correct plantition and t
behavior, Welder Wildlife Refuge 1971 June p. 112-119	aerial plankton, species dispersion, insect physiology, agricultural pest,
cryptoblotic animals, metabolism, anaerobic metabolism, suggested	entomology, wind-borne dispersal of species 1963 Dec p 132-138 animal navigation, turtles, telemetry, sexual behavior, nesting,
animation, Nematoda, Rotifera, Tardigrada 1971 Dec p 30-36	Uncionia mydas green turtle 1 400 mile in mile
ducks, imprinting, auditory interaction 1972 Aug p. 24-21 15461	great tarrie, 1,400-line journey
developmental psychology, homing behavior, kittens, learning, suckling	DUDUUD animal naturation Antorotec Addi-
1972 Dec p 18-25 [552]	System 1966 Oct p. 104 113
escape response, neurophysiology, toad, visual perception, visually guided behavior 1974 Mar. p. 34-47 (1202)	polar pears telemetry satellite Aratic catallite treatment
guided behavior 1974 Mar p 34-42 (1293) population cycles, population control, lemmings	animais 1968 Feb p 108_116 (1102)
1974 June p 38–46 [1296]	animal behavior, biological clock, circadian rhythm, circannual
birds, finches, mimicry, parasitism, sexual behavior, widow birds	
1974 Oct n 92-98	grassland, grazing animals, grazing ecosystem, savanna topography, Serengeti National Park, Tanzania 1971 July p 86-93 [1228]
lions, symbiosis, predator-prey relationship 1975 May n 54-65	Serengeti National Park, Tanzania 1971 July p 86-93 [1228] animal navigation, sonar, bat sonar, ultrasonic signal, bat navigation
aerodynamics, bird flight, insect flight, clap-fling mechanism, flin	demonstrated in laboratory 1950 Aug p 52-55
mechanism, hovering flight, lift generation	bee, crustacea, solar navigation 1954 Oct p 74-78
1975 Nov p 80-87 [1331]	polarized light, Nichol prism, dichroic material, horseshoe crab
mantis shrimps, marine life, stomatopods 1976 Jan p 80-89	1955 July p 88–94
predator-prey relationship, spiders, Arachnida, social spiders	salmon, fish migration, homing behavior, chemotaxis
1976 Mar p 100-106 crocodile, Nile crocodile, parental care, reptile 1976 Apr. p 114-124	1955 Aug p 72–75
hopping energetics, kangaroos, mammalian evolution, marsupial	bird navigation, spatial orientation, bird migration, celestial navigation by birds 1958 Aug p. 42-47 [133]
1977 Aug p 78–89 [1366]	by birds 1958 Aug p 42–47 [133] bioluminescence, electric fishes, electric field 1963 Mar p 50–59
milk hijacking by British songbirds 1950 June p 30	animal migration, turtles, telemetry, sexual behavior, nesting, Cheloma
hedgehog's egg preferences 1952 Apr p 44	mydas, green turtle, 1,400-mile journey 1965 May p 78-86 [1010]
crow-calls, bird semantics 1956 Aug p 52	penguin, animal migration. Antarctica, Adelie penguin navigation
see also insect behavior, primate behavior, animal navigation and the	system 1966 Oct p 104-113
like	insect behavior, locust, nervous system, insect flight, response to
animal communication, insect behavior, social insect, bee dances,	stimuli, schistocerca gregaria 1971 Aug p 74-81 [1231]
directional orientation, 'language of the bees'	chemotaxis, herring, shad migration, homing behavior, temperature as
bee dances, more on the 'language of the bees' 1948 Aug p 18-21 [21] 1953 July p 60-64	migration control 1973 Mar p 92~98 [1268] insect behavior, ants, bee, insect eye, polarized light
fish communication, crustacea, whale, porpoises, marine biology,	1976 July p 106–115 [1342]
animal sounds in the sea 1956 Apr p 93–102	porpoise navigation, by sonar? 1953 May p 60
bird song, learning, innate behavior, animal behavior	animal psychology, see also comparative psychology
1956 Oct p 128–138 [145]	animal sacrifice, oxtail omen experimentally demonstrated
ants, insect behavior, ant 'guests', comensalism, parasitism,	1966 Feb p 54
pheromones 1971 Mar p 86-93 [1213] chemotaxis, pheromones, bullheads, catfish	animal toxins, nerve conduction block, tetrodotoxin, saxitoxin, poisons, puffer fish, California newt 1967 Aug p 60-71 [1080]
1971 May p 98–108 [1222]	animal vectors, encephalitis, virus disease, influenza virus
ape language, chimpanzee learning, Sara learns grammar to 'read'	1949 Sept p 18-21
1972 Oct p 92–99 [549]	brain disease, scrapie, kuru, Chediak-Higashi syndrome, virus disease,
bird song, bell shrike, bird duets 1973 Aug p 70-79 [1279]	multiple sclerosis 1967 Jan p 110-116
behavioral adaptation, firefly, bioluminescence, insect behavior,	animals, Audubon, animals by John James Audubon 1952 Jan p 64-65 anionic detergent, synthetic detergents, cationic detergent, surfactant,
, synchronous flashing of fireflies 1976 May p 74-85 brown rat, rats 1977 May p 106-116 [577]	nature and action of synthetic detergents 1951 Oct p 26-30
brown rat, rats 1977 May p 106-116 [377] stereotyped dances of bees 1957 Mar p 70	aniseikonic lenses, visual perception, 'Ames room', personality, anxiety,
insect behavior, signal dance of the blowfly 1957 May p 72	'Honi' phenomenon, emotional relationships condition perception
ornithology, Lanarius erythrogaster song 1963 May p 80	1959 Apr p 56-60
insect behavior, cricket song, mole cricket 1972 Feb p 44	anisotropy, cobalt-rare earth alloys, magnetism, permanent magnets,
animal domestication, agricultural history, archeology, plant	magnetic domains, Alnico 1970 Dec p 92-100 Annelida, feather duster worm, lugworm, biological clock, circadian
domestication, food and agriculture 1976 Sept p 88-97	rhythm, marine worm 1959 June p 132–142
animal electricity, Galvani, voltaic pile, a major discovery in physics as	anomalous diffusion, magnetic field, plasma instability, thermonuclear
well as biology 1950 Feb p 40-43 animal husbandry, cattle, dairying, Zebu cattle, European cattle, selective	reaction, fusion reactor, magnetic bottle, nuclear power, leakage of
stock breeding 1958 June p 51–59	plasma 1967 July p 76-88
antelone giraffe elephant, buffalo, rhinoceros, hippopotamus, wildlife	'anomalous' water, 'biological' water, blood, hemoglobin, water,
husbandry in Africa 1960 Nov p 123-134	membrane permeability, osmosis, erythrocyte, van 't Hoff law 1971 Feb p 88-96 [1213]
agricultural technology, poultry production, food production, chicken,	Anopheles mosquito, tropical medicine, malaria, Plasmodium,
age: 11 S. chicken factories 1966 July p. 30-04	enidemiology, W H O malaria eradication 1962 May p 86-96
water buffalo, domestic animals, agricultural water buffalo as draft and heef animal 1967 Dec p 118-125 [1088]	anoxia, epidemiology, stress, pregnancy, Down's syndrome, trisomy 21,
200 - 1000 - 76 00	etiology of Down's syndrome 1952 Feb p 60-66
Karinojong, carro, sussentias and natural history of mule	ant 'guests', ants, insect behavior, animal communication, comensalism, parasitism, pheromones 1971 Mar p 86-93 [1213]
1970 Dec p 102-109 [1200]	parasitism, pheromones 1971 Mar p 86-93 [1213] Antarctic climate, no warmer 1953 Jan p 34
aggregation energy cycle apprening at system bower, their comment	Anteretic continental glacier, Antarctica, glaciation, ice, stratigraphy,
tropical agriculture 1971 Sept. p. 110–132 [000]	volume of ice in glaciers ecological implications
dwarf chickens 1971 June p 59	1962 Sept p 132-146 [861]
endangered species in 2005	Antarctic convergence, food chain, plankton, krill, whale, Euphausia
1977 Oct p 81	superba 1958 Jan p 84-89 [853] Antarctica, ocean circulation, Antarctic Ocean, physical oceanography
who-domestic hybrids whole extinction 1955 Jan p 62-66	5 A magratic 1902 SCDL D 113-128 18001
animal inigration, gray where, food supply 1955 Dec p 92-100	Amarine oceanography, marine biology, food chain krill, blue
1 a company of the World archeology, being the	whale, ecology, biological province of Antarctic convergence
bridge continental shell, glaciation, wisconstit graciation,	1962 Sept p 186-210
plant migration, Asia-North America 1962 Jan p 112-123	

1972	July p 14-25 [345]	aquatic insect, insect eggshell, respiration, ada	
antivivisection, scientists sue Hearst	1949 Sept p 26	selective permeability of insect surface tension, water-strider, backswimme	1970 Aug p 84–91 [1187]
loses in Baltimore animals from the pound	1950 Feb p 27 1952 Apr p 40	springtail, insects of the water surface	1978 Apr p 134–142 [1387]
Hearst settles libel suit	1953 July p 46	aquatic life, thermal pollution, nuclear power,	ındustrıal cooling, water
US legislation	1963 June p 70	pollution, cooling towers, waste heat	1969 Mar p 18–27 [1135]
laboratory animals	1966 Mar p 55 1966 June p 56	see also marine life aqueducts, ground water, irrigation, tunneling	. Iran, underground system.
judicial ruling on 'justifiable pain' US Federal legislation on animal experimentation		3,00 years old, still in use	1968 Apr p 94-105
antler, evolution, horn, osteogenesis, bone, keratin, un	ngulates, differences	Roman technology, siphons, water-supply s	
between horns and antlers 1969 Ap	or p 114–122 [1139]	Arabia, irrigation, trade, Near East, frankince	1978 May p 154–161 [3009]
ants, insect behavior, social insect, army ant, comparare reproduction, feedback, pheromones, trophallax	ative psychology,	archeology, cultures of southern Arabia	
philosophy of science, anthropomorphism	1948 June p 16–23	arachnid, spiders, spider webs, evolution, orb	web 1960 Apr p 114-124
amber, insect evolution, insect census, insects in 'm 1951	Nov p 56-61 [838]	Arachnida, Phalangida, harvestman, daddy lo natural history	1962 Oct p 119-128 [137]
insect behavior, animal communication, ant 'gueste parasitism, pheromones 1971.	s', comensalism, Mar p 86–93 [1213]	false scorpion, natural history, animal beha	vior, Chelifer canroides 1966 Mar p 95–100 [1039]
insect behavior, army ant, social insect, retrospective		anımal behavior, predator-prey relationship	o, spiders, social spiders
of T C Schneirla 1972	Nov p 70–79 [550]	A LT I Almosto final all	1976 Mar p 100–106
social insect, parasitism, pheromones, insect behav	or, ant slavery June p 32–36 [1323]	Arawak Indians, earthworks, flood plain, agric fields, New World archeology	1967 July p 92–100
insect behavior, bee, insect eye, animal navigation,		archeological dating, radiocarbon dating, pale	obotany, carbon 14, pollen
1976 Ji	uly p 106-115 [1342]	analysis	1952 Feb p 24-28
insect behavior, pheromones, social insect, weaver	ants ec p 146-154 [1373]	carbon 14 dating, European prehistory, den	1971 Oct p 63–72 [672]
insect behavior, pheromone, raider ants	1971 July p 45	clocks from physics	1976 Mar p 60D
anxiety, visual perception, 'Ames room', personality,	, aniseikonic lenses,	archeological excavation, Phrygian civilization	
'Honi' phenomenon, emotional relationships co	ndition perception 1959 Apr p 56-60	B C, preclassical Greek link with East Lydian civilization, Croesus, Sardis, 6th cer	1959 July p 100–109
personality, factor analysis 1963	Mar p 96–104 [475]	Lydian civilization, Crocsus, Sardis, offi Cr	1961 June p 124–135
polygraph, lying, psychosomatic illness, guilt, brea	thing, pulse rate,	archeology, disease, morbidity, surgery, record	d of illness among the
skin temperature, 'he detector' mis-named 196	57 Jan p 25–31 [503]	ancients peat bog, weapons deposits, organic relics,	1949 Jan p 52–55
lactate induction anxiety neurosis, lactic acidosis, adrenalin, biochemi	1968 Feb p 54	pear bog, weapons deposits, organic tenes,	1953 Oct p 84-88
196	69 Feb p 69-75 [521]	Mohenjo-Daro, Harappan civilization, Inde	us valley, Sumer
ape language, animal communication, chimpanzee le	earning, Sara learns	Arzawa, Anatolia, Hittites	1953 Nov p 42-48
grammar to 'read' 197 apes, primate evolution, hominoid, fossil primates, r	72 Oct p 92–99 [549]	Nemrud Dagh, burial site, funerary monum	1955 July p 42–46 nent, Turkey, tomb of
Aegyptopithecus, Oligocene ancestor of homine	oıds	Antiochus I	1956 July p 38-44
	57 Dec p 28–35 [636]	Sumer, cuneiform script, law code, 3000 B	C to 1500 B C, Ur, Nippur 1957 Oct p 70–83
fossil primates, human evolution, population gene 197	2 Jan p 94–103 [676]	Scythian culture, Siberia, tombs, refrigerate	
aphasia, brain damage, Broca's area, language, speed	ch disorders	cloth, leather and wood artifacts preserve	, ,
aphids, sap circulation, phloem, xylem, trees, use of	2 Apr p 76–83 [1246]	coins, statistics, numismatics, Taxila hoard,	1965 May p 100–109
	Mar p 132–142 [154]		1966 Feb p 102-111
aphrodisiac, para chlorophenylalaline	1970 Feb p 44	Harappan civilization, Indus valley, Mohen	yo-Daro, floods as cause of
apical bud, auxins, leaf scission 195 aplysia, neurones, behavior, learning, memory, syna	5 Nov p 82–89 [116]	demise ancient trade, writing, Elamite culture, Mes	1966 May p 92–100
facilitation, memory and learning at nerve-cell		Sumer, Iran, Tepe Yahya	1971 June p 102-111 [660]
197	0 July p 57-70 [1182]	agricultural history, animal domestication,	plant domestication, food
Apollo 11 landing site, Lunar Orbiter V photograph Apollo 12, lunar-rock analysis, lunar sample 12013	1969 Sept p 96 1971 Jan p 44	and agriculture Celtic Britain, Celtic culture, Gussage site	1976 Sept p 88–97
Apollo project, laser reflection, moon, orbital motio	n, lunar-ranging	design of Her-Neit tomb, Egypt	1956 July p 50
experiment, corner reflector, Earth-Moon dista	ance measurement	flint tool deposit in Negev	1956 Sept p 116
moon, meteorites, lunar soil, regolith, structure a	1970 Mar p 38-49	Linear A script deciphered hoax of Kensington Stone	1957 Oct p 58
-	1970 Aug p 14-23	in mining camp	1958 Dec p 64 1959 July p 72
lunar evolution, lunar magnetism, magnetometer exploration		Scotland, 8th c A D metalwork	1960 Feb p 74
lunar evolution, lunar rocks, space exploration	1971 Aug p 62-73 1971 Oct p 48-58	Aswan High Dam emergency 3000 B C Asia-South America link	1960 May p 98
Apollo samples, carbon chemistry, moon, cosmolog	y, solar wind	hunter-gatherer village Euphrates	1962 Apr p 80 1966 May p 53
apparent distance theory, visual perception, moon i	1972 Oct p 80–90	Britain, looting of sites	1972 May p 54
psychology, explanation of a familiar illusion	ilusion, Gestait	early seafarers, Franchthi cave British graffiti on Hadrian's Wall	1973 Mar p 48
1963	2 July p 120-130 [462]	rehabilitation of Glozel find	1975 Jan p 52 1975 Feb p 41
apparent movement, visual perception, optical illus movement, motion perception 199	54 Oct = 08 106 [487]	China, Huang Ti tomb wheel in New World	1975 Sept p 54
appetite, obesity, human nutrition, hunger neuron	64 Oct p 98–106 [487] hysiology.	oldest bronze	1975 Oct p 54
physiological mechanisms of overcating	1956 Nov. p. 108-116	origins of Iron Age	1976 Sept p 70 1977 May p 61
applied mathematics, mathematics, introduction to mathematics	1064 Come - 40 40	see also New World archeology, underwate	er archeology and the life
applied science, invention creativity, industrial res	earch collectors	Acheulean culture, Cochise culture and the archer fish, predator-prey relationship, animal Toyotes	ha ki a
physics, Bell Laboratories solid-state physics aquaculture, fisheries, proteins, food, tilapia, pond	1050 Come m 116 120	TOXOTES	1062 1 100 100
, toou, trapia, pond	1963 May p 143-152	archery, war, sling, accuracy, range and lethal	ity of sling
	, .		1973 Oct. p 34-42

=

chonomeningitis, serum sickness

antigens, protein synthesis, immunology, immune response, mutation	antigen societion diseases makes the second
selection theory of immunity 1961 Jan p. 52,67 t	
aitigens, immune response, hypersensitivity, phagocytosis	to a state disease, diffinal vectors, Hong Rong Hu, swine flu
inflammatory response, leukocyte, allergy, thymus gland lymphati	antigens, allergy, immune reaction, antibodies, serum sickness,
system, centuar immunity 1964 Feb. p. 58_	64 Land State of the state of t
thymus, lymphatic system, immune system, lymphocytes, thymus	
implant in mouse, humoral factor 1964 July p. 66_	antibodies, antigen-antibody reaction, gammaglobulin, antibody- antigen specificity 1957 Oct. p. 90, 106
amino-acid sequence, antibody molecule, immunoglobin, Bence-Ione	
proteins, heavy chain, light chain, antigen-antibody complex	, antibodies, separation of
1967 Oct p 81–90 [108	
antigen complement, immune response, lymphocytes, virus antigens,	, i standard in the sponse,
virus disease, autoimmune disease, allergic reaction, immune-	mutation, selection theory of immunity 1961 Jan p 58-67 [78]
complex disease, glomerulonephritis, lymphocytic choriomeningitis	immune response, antibodies, hypersensitivity, phagocytosis,
serum sickness 1973 Jan p 22–31 [126	a, and by the state of the stat
antigens, allergic reaction, immune response, anaphylactic shock,	
immunology, lymphocytes 1973 Nov p 54-66 [128	antibody molecule, B-cells, immune system, lymphatic system,
bursa, cell differentiation, humoral immunity, B-cells, T-cells, immune	
system, lymphocytes, thymus 1974 Nov p 58–72 [130	. C
cell membrane, histocomptability, antigens, immune response,	
immunoglobin, lymphocytes, B-cells, T-cells	antibodies, cell membrane, histocomptability, immune response,
1976 May p 30–39 [133	immunoglobin, lymphocytes, B-cells, T-cells
antigens, active site, immune response, lock-and-key theory,	
immunoglobin, Bence-Jones proteins, Fab fragments, Fc unit	antibodies, active site, immune response, lock-and-key theory,
1977 Jan p 50–59 [1350	immunoglobin, Bence-Jones proteins, Fab fragments, Fc unit
cancer, cell-surface antigens, cancer immunology, immunopotentiators	
immune response, tumor-specific antigens, leukemia, transplantation	
antigens 1977 May p 62–79 [1358	
hepatitis A, hepatitis B, transusion hepatitis, viral hepatitis, Australian	
antigen (B), viral structure, viral disease 1977 July p 44-52 [1365]	antigravity, time reversal, CPT symmetry, antimatter, probability,
architecture of antibodies 1958 Nov p 5	philosophy of science 1967 Jan p 98-108 antihistamines, best-selling patent medicines 1950 May p 28
thymus in antibody-production 1962 Apr p 8	
antibody molecule, amino-acid sequence, antibodies, immunoglobin,	Antikythera, planetary motion, Greek computer, ancient instruments, science history, Classical archeology, computer technology, 2,000-
Bence-Jones proteins, heavy chain, light chain, antigen-antibody	year-old computer 1959 June p 60–67
complex 1967 Oct p 81–90 [1083	
myeloma, immunoglobin, antigen binding, Bence-Jones proteins,	gear train reconstructed 1974 Apr p 50
amino-acid sequence, antibody amino-acid sequence determination	antimatter, antiproton, positron, proton, Bevatron, high energy physics,
1970 Aug p 34–42 [1185]	
antigens, B-cells, immune system, lymphatic system, lymphocytes, T-	high-energy physics, antiproton, antineutron, Bevatron, cosmology,
cells 1973 July p 52–60 [1276]	
first electron micrograph 1960 Apr p 85	
antibody persistence, vaccine, poliomyelitis virus, epidemiology	interaction, recognition of 'fourth force' 1959 Mar p 72-84 [247]
1955 Apr p 42-44	atom, Pauli, exclusion principle, theoretical physics, quantum
antibody production, thymus, immunology, lymphocytes, DNA,	mechanics, structure of atoms and nuclei 1959 July p 74-86 [264]
autoimmune disease, thymus role in producing antibodies	antigravity, time reversal, CPT symmetry, probability, philosophy of
1962 Nov p 50-57 [138]	science 1967 Jan p 98–108
antigen-antibody reaction, lymphocytes, RNA synthesis, immune	Leidenfrost phenomenon, Zeeman effect, Klein theory, high energy
response, clonal selection theory 1964 Dec p 106-115 [199]	physics, cosmology, high-energy physics and cosmology
anticoagulant therapy, blood clotting, Dicumarol, thrombus	1967 Apr p 106–114 [311]
1951 Mar p 18–21	g factor, electron, magnetic moment, electron spin, positron, magnetic
anticodon, amino acids, DNA, protein synthesis, genetic code, mutation,	bottle 1968 Jan p 72-85
molecular biology, triplets, RNA, ribosomes, triplets, wobble	high energy physics, colliding beam accelerator, electron-positron
hypothesis 1966 Oct p 55–62 [1052]	annihilation, proton, parton model, quantum electrodynamics 1973 Oct p 104-113
anticyclones, wind, meteorology, atmospheric circulation, cyclone, source	electron-positron annihilation, J particle, psi particle, charm, color,
of prevailing winds 1956 Dec p 40-45 [841]	quark, high-energy physics, storage rings, virtual particles
antifungal agent, from fungus 1953 Apr p 52	1975 June p 50-62
antigen-antibody reaction, ionic bonds, covalent bonds, hydrogen bonds,	crystal structure, gamma radiation, gravitational interaction, positron
Van der Waals force, long-range forces, chemical bond, proposed intermolecular long-range force 1948 Oct p 14-17	probes, solid state physics, scintigraph 1975 July p 34-42
intermolecular long-range force 1948 Oct p 14-17	antineutron demonstrated 1956 Nov p 64
molecular biology, physical chemistry, interdisciplinary collaboration, collaboration of G Beadle and L Pauling 1949 May p 16-21	heta decay, bias for positive 1966 Aug p 40
collaboration of G Beadle and L Pauling 1949 May p 16-21 virus disease, influenza virus, bacteriophage, poliomyelitis virus,	CERN experiment upholds charge conjugation symmetry
bacteriophage, immunity, infection, host-specificity, viruses in	1966 Nov p 64
reference and in the laboratory 1951 May p 43-51	antineutron, antimatter, high-energy physics, antiproton, Bevatron
services specificity, speciation, determination of 'blood relationships'	cosmology, 'universon', 'cosmon', 'anticosmon' 1958 Apr p 34-39
1951 July p 37-03	antinomy, paradox, mathematical logic, logic, barber paradox, undecidable questions, Godel's proof, Grelling's paradox,
fertilization, antibodies, fertilizin 1954 June p 70-75 [43]	Epimenides' paradox, Zeno's paradox, paradox and foundations of
antibodies antigens gammaglobulin antibody-antigen specificity	1067 Apr p 94 06
1937 Oct p 22-100	antiproton, positron, proton, Bevatron, antimatter, high-energy physics,
antibody production, lymphocytes, RNA synthesis, immune response,	postulation and discovery of antiproton 1930 June p 37-41 [244]
alamal collection theory	antimatter high energy physics antineutron, Bevalron, cosmology,
the Linding anti-hody molecule myeloma immunoglobin, bence-	'universon', 'cosmon', 'anticosmon' 1938 Apr p 34-39
Jones proteins, amino-acid sequence, antibody an	experiment designed 1949 Dec p 30
Jetamination 1970 Aug P 34 42 [1000]	Direc substantiated 1935 Dec p 40
antigen complement, antibodies, immune response, lymphocytes, virus	formal change substantiated 1904 July D 44
antigens, virus disease, autoimmune disease, allergic reaction, immune-complex disease, glomerulonephritis, lymphocytic	antisubmarine warfare, arms control, missile submarines SALT, mutual assured destruction SLBM, sonar, acoustic detection
choriomeningitis, serum sickness 1973 Jan p 22–31 [1263]	assured destruction (SED 1), somal, assured

atomic test ban, national security, atomic bomb test, mi	ssile policy,	aromatic compounds, lignin, wood, paper, chemical identity of elusive
military technology, fallout shelters 1964 Oc	t p 27–35 [319]	lignin 1958 Oct p 104–113
radar blackout, atomic warfare, counterforce strategy, A	ABM, ICBM,	aromatic hydrocarbons, heat resistance, polymers, materials technology,
US ABM system capabilities and limitations 196	8 Mar p 21-31	plastics, high-temperature-resistant plastics 1969 July p 96–105
ABM, MIRV, SALT, deterrence, ICBM, counterforce s	trategy,	benzene derivatives, molecular structure, aromaticity
dynamics, instability of arms race 1969 Ap	гр 15—25 [642]	1972 Aug p 32–40
ABM, ICBM, MIRV, SLBM, mutual assured destruction	on, counterforce	molecular structure, pyrogenesis, polycyclic aromatic compunds
strategy, strategic balance, national security		1976 Mar p 34-45
1969 Au	g p 17–29 [330]	aromaticity, aromatic hydrocarbons, benzene derivatives, molecular
arms production, military expenditures, arms trade, eco		structure 1972 Aug p 32–40
development, the world cost of the arms race		ARPANET: Advanced Research Projects Agency computer Network
1969 Oc	t p 21-27 [650]	ARPANET, computer technology, computer inter-communication
atomic weapons, SALT, MIRV, counterforce strategy,		1972 June p 52
destruction, MIRV, as key to SALT negotiations		'arrested vision', vision, learning, experience, sensory deprivation, role of
1970 Ja	n p 19–29 [654]	environment experience in normal development
bacteria, chemical weapons, biological weapons, Vietna		1950 July p 16–19 [408]
virus disease, rickettsiae, tear gas, herbicide, chemica	ıl-bıological	arrow of time, entropy, time reversal, information theory, hierarchy of
	p 15–25 [1176]	structures, macroscopic information increase 1975 Dec p 56-69
ABM systems, ICBM, MIRV, atomic weapons, SALT,		arroyo, climatic change, flash floods 1952 Dec p 70-76
strategic weapons, prospects for freeze on numbers a	nd qualitative	art, schizophrenia, psychoanalysis, a case study 1952 Apr p 30–34
	71 Jan p 15–25	Escher's prints, optical illusion, perception of pictures, psychology,
missile submarines, SLBM, MIRV, Polaris, Trident, Po		visual perception 1974 July p 90–104 [560]
1972 Im	ne p 15–27 [344]	no 'natural' palette, Roy G Biv 1954 Oct p 50
bombers, SALT, AWACS, strategic weapons, military		art restoration, painting, X-ray, microchemistry, spectroscopy, science in
- '	73 Aug p 11–19	the art museum 1952 July p 22–27
antiaircraft systems 19 ABM, ICBM, MIRV, atomic armaments, counterforce		arteries, atherosclerosis, cardiovascular disease, human nutrition,
	73 Nov p 18–27	epidemiology, cholesterol, coronary occlusion, diet, lipids, plaque,
mutual assured destruction, counterforce strategy, mil		artery wall 1966 Aug p 48–56
arrandarran CALT MIDY MADY	74 May p 20–31	atherosclerosis, coronary disease, medicine, thrombus, monoclonal
expenditures, SALT, MIRV, MARV 19 counterforce strategy, atomic weapons, cruise missiles,		hypothesis, plaque formation 1977 Feb p 74–85 [1351]
accuracy, strategic weapons, C E.P, accuracy as mu	ltiplier of force	arteriography, heart surgery, atherosclerosis, coronary bypass, coronary
accuracy, strategic weapons, C L.1, accuracy as mu	975 July p 14–23	occlusion 1968 Oct p 36–43
civil defense, fallout, limited nuclear warfare, technological		arteriole, capillary bed, blood circulation, mesentery, venule,
flexible-response strategy, limited nuclear war 19	76 Nov n 27–37	cardiovascular system 1959 Jan p 54–60
cruise missiles, SALT, strategic weapons, tactical weap	ons control	artery prostheses, cardiovascular disease, vascular surgery,
systems, navigation systems 1977 Fe	b p 20–29 [691]	atherosclerosis, repair of vascular disease damage
neutron bomb, atomic weapons, tactical nuclear weap		1961 Apr p 88–104
decision to develop and deploy enhanced radiation	weapons	artesian well, ground water, piezometric surface, water table, water cycle,
1978 Ma	y p 44-51 [3007]	resource management, runoff, ground water in water-resource
USSR. explodes its first bomb	1949 Nov p 26	management 1950 Nov p 14-19 [818]
•	-	irrigation, ground water, agricultural technology, Sahara desert, water
acceleration of U S atomic weapons research and pro		resource management, land reclamation, intercalary water, 'fossil'
	1949 Dec p 26	water, making desert fertile 1966 May p 21-29
U S accelerates production of atomic weapons	1950 Mar p 26	arthritis, gout, colchicine, metabolism, chemistry of gout
Kapitza 'on strike'	1957 Feb p 57	1958 June p 73–81
US and USSR. capabilities	1960 Dec p 76	medical diagnosis, thermography, tumor, skin temperature, circulatory
lunar radar reflection trips missile alert	1961 Feb p 66	disorders 1967 Feb p 94–102
USSR. breaks moratorium, tests big H-bombs	1961 Oct p 80	an infectious disease? 1951 Aug p 30
radio astronomy, defense of Project West Ford	1961 Nov p 78	growth hormone blamed 1953 May p 58
200th ICBM in place	1963 Feb p 64	arthritis remedies, cortisone and ACTH 1949 July p. 28
thermonuclear-weapons test in China Nike-X ABM	1966 July p 48 1967 July p 40	artificial diamonds, lithosphere, ultra-high pressure, coesite, borazon.
China's first fusion bomb explosion	1967 Aug p 38	properties of matter under 2×10^6 p s 1 1959 Nov p 61–67
Nike-X ABM	1967 Nov p 52	artificial fibers, natural fibers, spinning technology, textile fibers, yarn
antimissile warhead	1968 Jan p 44	1972 Dec p 46-56
worldwide wide arms expenditures	1970 May p 56	artificial heart, heart transplant, kidney transplant, immunosupression,
world military expenditures	1971 July p 42	organ transplant, mechanical heart implant
B-1 bomber planned	1973 May p 42	1965 Nov p 38–46 [1023]
strategic-arms modernization under SALT	1973 June p 38	artificial intelligence, computer chess, automata theory, 'thinking'
after MIRV, MARV maneuverable reentry vehicle	1973 Dec p 55	approaches an operational definition 1950 Feb p 48-51
US budget increase	1974 Mar p 44	computer chess, chess-playing computer 1958 June p. 96-105
land-based missiles, triad concept	1974 Apr p 48	language, Loglan, linguistics, 'language of logic' 1960 June p 53-63
SIPRI report	1974 Dec p 60	computer technology, pattern recognition 1960 Aug p 60–68
cruise missile	1975 June p 41	computer technology, heuristic programs computer programming
'Missile X', mobile ICBM's	1977 Mar p 58	1966 Sept p 246–260
reviewed by U N	1977 Nov p 70	computer chess minutes of man-machine chess game
declaration by 12,000 U S scientists	1978 Feb p 76	1973 June p 92–105
see also atomic bomb, atomic bomb test, hydrogen b	omb and the like	evolutionary model 1952 Sept p 68
arms trade, arms production military expenditures, arr	ns race, economic	artificial kidney, kidney, dialysis 1961 July p 56-68 dialysis of lymph 1967 May p 58
development the world cost of the arms race	0 . 0. 00.000	artificial light, highercal clock suplight systems 1967 May p 58
third-world weapons	Oct p 21-27 [650]	artificial light, biological clock, sunlight suntaining, vitamin D, body's response to light 1975 July p. 68, 77 (1325)
Armstrong, radio communication, frequency modulati	1972 Jan p 44	response to light 1975 July p 68-77 [1325] artificial membranes, cell membrane, enzymes, enzyme action, enzymes as
of Edwin H. Armstrong	1054 4 64 60	industrial catalysts 1971 Mar p. 26-33 (1216)
army ant, insect behavior, social insect, ants, compared	1954 Apr p 64–69	artificial muscle, muscle contraction, Langmuir trough ATP,
reproduction, recupack, pheromones trophallague	natural history	
DRIIOSODIN OI NCICIICE ARIBIODOMOTPHICM	1040 1 16 33	Conthetic muscles
insect behavior, ants, social insect, retrospective sum	mary of work of	1949 Oct p 28
T C Schneirla	Nov p 70-79 [550]	

Arches of Science Award, Kalinga prize, to Warren Weaver	comments and the second
1065 Nov 40	seismology, atomic bomb test, underground nuclear explosions, how to
Archinedes' mirrors, incendiary weapon 1077 June - 64	earthqual as
architectual acoustics, sound waves, auditoriums, wave acoustics, sound	
interference, sound diffraction, acoustic reverberation, effective	earthquakes, atomic test ban, atomic bomb test, underground nuclear
management of sound in public buildings and dwellings	explosions, seismology, detection and discrimination of underground atomic weapons tests
1963 Nov p 78–92	atomic weapons tests 1966 July p 19-29 atomic test ban, seismology, underground nuclear explosions,
architectural drawing, computer graphics, computer modeling	technology for verification of underground nuclear test has
1974 May p 98–106	1972 Ian n 13_23 [343]
architectural engineering, war, castle, Norman invasion, English castles, A D 1066	antisuomarine wartare, missile submarines, SALT mutual assured
	destruction, SLBM, sonar, acoustic detection
building construction, prestressed concrete, materials technology	1972 July p. 14-25 [345]
1958 July p 25-31 roof, vault, Gothic arch, Romanesque barrel vault, Byzantine dome,	atomic test ban, 'fireball blackout', EMP effect, underground nuclear
building construction, vaulting technics 1961 Nov p 144-154	explosions, strategic weapons 1972 Nov p 15–23 [342]
Gothic cathedrals, optical model, Bourges cathedral, Chartres	satellite, SALT, strategic weapons, verification technology, 'national
cathedral 1972 Nov p 90–99	technical means of verification' 1973 Feb p 14-25 [346]
Pisa tower 1972 Oct p 48	'International Disarmament Control Organization' 1974 Oct p 21-33 hydrogen bomb, 'Oppenheimer case', debate over 'super'
architecture, building construction, primitive architecture, climate, igloo.	1975 Oct p 106–113
teepee, yurt, tent, sod hut, adobe house, hogan, stilt house	SALT, cruise missiles, bombers, strategic weapons, Carter
1960 Dec p 134-144	administration 'comprehensive proposal' for US-USSR. force
sunlight, lighting, solar radiation, building construction, glass	levels 1977 Aug p 24–31 [696]
1968 Sept p 190–202	nuclear power, atomic-weapon proliferation, plutonium fuel cycle,
information theory, painting, sculpture, visual communication,	breeder reactor, US energy policy and proliferation of atomic
communication, trademarks, language, visual stimulus, visual signals	weapons 1978 Apr p 45–57 [3004]
1972 Sept p 82–96 [548]	re-grouping for negotiations 1949 Dec p 26
stairs, stride, walking 1974 Oct p 82–90 air conditioning, air vent, wind tower, domed roof, cooling system,	US-USSR, deadlock 1954 Aug p 38 stand-off at UN 1962 Jan p 58
passive cooling systems in Iranian architecture	stand-off at U N 1962 Jan p 58 Arctic arms-inspection zone 1965 Jan p 48
1978 Feb p 144–154 [705]	ABM moratorium proposed 1966 Jan p 46
sculpture, erosion, marble, limestone, atmospheric pollution,	underground test ban, U S position 1966 Aug p 40
weathering, preservation of stone 1978 June p 126–136 [3012]	chemical and biological weapons 1966 Nov p 64
Wren as astronomer 1976 Jan p 63	outer space treaty 1967 Jan p 54
Arctic, Stone Age hunters, Alaska, Siberia, Greenland, Dorset culture,	chemical and biological weapons 1967 Apr p 48
circumpolar Stone Age culture 1954 June p 82–88	ABM debate, advantage of offensive 1968 Feb p 50
animal migration, polar bears, telemetry, satellite, satellite tracking of migratory animals 1968 Feb p 108–116 [1102]	marine disarmament 1968 Apr p 42 Treaty of Platelolco, Latin America nuclear free zone
migratory animals 1968 Feb p 108–116 [1102] Arctic flora, desert adaptation, cold adaptation, paleobotany, Greenland	1968 May p 48
flora, adaptations to Arctic climate 1956 Feb p 88–98	Mc Namara on mutual assured destruction 1968 Nov p 54
Arctic Ocean, ocean circulation, telemetry, meteorology, Northeast	demilitarization of ocean floor proposed 1969 Nov p 56
Passage, ice-floe islands, bathymetry, marine biology, Soviet Arctic	ocean floor demilitarised 1971 Jan p 44
research 1961 May p 88–102	on-site inspection, SALT I 1971 Mar p 44
warming up 1954 Dec p 56	SALT prospects bleak 1971 Apr p 48 biological-weapon treaty 1971 Nov p 46
Arctic Ocean currents, ice-floe islands, weather 1954 Dec p 40-45	chemical-warfare conference 1972 Apr p 54
area-minimizing principle, measure theory, mathematical model, mathematical surfaces, soap bubbles, surface geometry	SALT I, missile numbers 1972 July p 48
mathematical surfaces, soap oddoles, surface geometry	SIPRI report on SALT I 1972 Dec p 40
arena behavior, bowerbirds, sexual behavior, courtship display, animal	chemical weapons 1974 Oct p 55
behavior, Australian bowerbird, natural history 1956 June p 48–52	MIRV limits 1975 Jan p 48
bowerbirds, sexual behavior, animal behavior, courtship display,	arms production, armed forces of U S, employment 1951 Sept p 89-99 military expenditures, arms trade, arms race, economic development,
releaser stimulus, ethology, natural history	the world cost of the arms race 1969 Oct p 21–27 [650]
1963 Aug p 38-46 [1098]	US conglomerates 1957 Feb p 56
see also lek behavior argon, crystal structure, cryogenics, noble gases, solid state physics, solid	arms race, USSR atomic bomb, Acheson-Lilienthal plan, Baruch plan,
noble gases 1966 Oct p 64–74	U S negotiating position at termination of 'atomic monopoly'
arid lands, irrigation, sea water, salt-water agriculture, agronomy, salt	1949 Nov p 11–13
tolerance 1967 Mar p 89–96	hydrogen bomb, thermonuclear reaction, the Hydrogen Bomb – first of four articles published at the time the U S government determined
U N conference 1955 June p 48	to proceed with its development, production, perfection and
A A A S conference 1955 Sept p 78	deployment 1950 Mar p 11–15
Aristotle, Classical physics, appraisal of a physicist of more ancient fame 1950 May p 48–51	bydrogen bomb, the Hydrogen Bomb – second of four articles
than Newton non-Euclidian geometry, parallel lines, non-Euclidian geometry, 97-98	published at the time the US government determined to proceed
Evolvi 1909 NOV p 67-28	with its development, production, perfection and deployment 1950 Apr p 18-23
	hydrogen bomb, the Hydrogen Bomb - third of four articles published
mathematics 1904 Sept 9 202 210	at the time the U S government determined to proceed with its
armed forces hospitals, over-bedded 1949 Feb p 29	development, production, perfection and deployment
armed forces nospitals, over-bedden armed forces of U.S., arms production, employment 1951 Sept p 89–99	1950 May p 11-15
arms case, atomic bomb, USSR explodes its first bomb 1949 Nov p 26	hydrogen bomb, the Hydrogen Bomb – fourth of four articles published at the time the US government determined to proceed
	with its development, production, perfection and deployment
arms control, UN, role of UN in resumed negotiation of arms control 1950 Jan p 11-13	1950 June p 11-15
military expenditures impact of	military deterrence, counterforce strategy, arms control, atomic
input-output analysis economics, military expenditures impact of disarmament on U S economy 1961 Apr p 47-55 [611]	weapons, USA - USSR negotiating postures 1962 Apr p 45-53 fallout shelters civil defense social psychology, counterforce strategy,
military deterrence, counterforce strategy arms race atomic weapons	social impact of fallout shelters 1962 May p 46-51 [637]
USA-USSR negotiating postures 1962 Apr p 45–53	1

gamma-ray astronomy, Earth satellite, telemetry, first g	glimpse of	airglow, ionosphere, solar radiation, ozone, oxyg	en atoms, upper
gamma-ray sky	62 May p 52–61	atmosphere, laboratory simulation, atomic en	ergy ieveis 1966 Mar p 102110
calendar, solar system, planetary motion, time, helioce	ntric theory,	interplanetary space, Mars, Mariner 4, magnetos	
year, Copernicus, astronomy, Copernicus, length of	66 Oct p 88–98	micrometeorites, trapped radiation, solar wind	
Stone Age Polynesian navigators	1959 Nov p 92	space exploration	1966 May p 62-72
telescope construction program urged	1965 Jan p 48	Mars, Venus, space exploration, atmospheric dif	
instrumentation improvements	1968 Nov p 55		1969 Mar p 78-88
prescientific astronomy	1974 Sept p 72	wind, ocean circulation, climate, Coriolis effect	1969 Sept p 76–86
see also radio astronomy, gamma-ray astronomy and	the like	calcium carbonate, carbon cycle, sedimentary ro	ck, photosynthesis,
strophysics, light scattering, zodiacal light, zodiacal ligh	t and	fossil fuel combustion, biosphere, carbon diox	Sept p 125–132 [1193]
interplanetary dust interplanetary dust neutrino, high-energy physics, neutrino astronomy, ne	960 July p 54–63	Earth crust, geochemical cycle, hydrologic cycle,	
neutrino, nign-energy physics, neutrino astronomy, ne	ig p 90–98 [283]		74 June p 72-79 [414]
Eotvos experiment, red shift measurement, relativity t		carbon dioxide 'window', climate, biomass, ocea	
theories assessed 19	74 Nov p 24–33	'greenhouse effect', threat of 'greenhouse effect	
maser, cosmic masers, hydroxyl maser, water maser, n	naser star,		78 Jan p 34–43 [1376]
interstellar matter, quantum mechanics, 'nature imi	tates art'	oxygen level	1970 Oct p 54
	/8 June p 90–105	soil as CO sink superpressure balloon	1971 Aug p 47 1974 Oct p 58
•	1956 Sept p 113 1960 Jan p 72	atmosphere-hydrosphere cycles, biosphere, Earth, e	
Kozyrev controversy Lacerta celestial supermagnet	1961 Mar p 84	photosynthesis, environment, introduction to	
Gegenschein	1962 Jan p 66		0 Sept p 44-53 [1188]
X-ray source near galactic center	1963 Dec p 67	atmospheric circulation, Corrolis effect, ocean circu	lation, relativity of
Hubble constant, red shift	1972 Feb p 41		52 May p 72–78 [839]
expansion of universe, test by microwave absorption	1973 Oct p 48	jet stream, upper atmosphere, weather, index cyc	
gamma-ray bursts	1975 Apr p 56	trade wind clouds, climate, cumulus clouds, ocea	1952 Oct p 26–31
asynchronous muscle, muscle fibril, sarcoplasmic reticul	um, msect mgnt,	interface	1953 Nov p 31–35
synchronous muscle, insect flight muscles	ne p 76-88 [1014]	Earth, solar energy, Earth rotation, circulation of	
atelectasis, see hyaline membrane disease	F (141.)		1955 Sept p 114-124
ateliosis, midgets, pituitary insufficiency, dwarfism, gen	etic disease,	wind, meteorology, cyclone, anticyclones, source	of prevailing winds
congenital anomalies, consanguinity, growth hormo	one deficiency,		956 Dec p 40-45 [841]
	7 July p 102–110	hurricanes, air masses, upper atmosphere, tropic	
Athens, Agora, Classical archeology Xerxes, Themistocles, Salamis, Classical archeology,	950 Aug p 46–51	weather satellites, Tiros, telemetry, heat budget of	57 Aug p 33–39 [847]
480 B C, tablets deciphered 196	1 Mar p 111–120	videocameras, photographic weather maps, we	•
atherosclerosis, hypertension, angiotensin, stress, etiolo		, p	1961 July p 80–94
hypertension	948 Aug p 44-47	Antarctica, climatology, solar radiation, albedo,	Antarctica in Earth's
artery prostheses, cardiovascular disease, vascular sui			62 Sept p 84-94 [859]
	61 Apr p 88–104	meteorology, weather, upper atmosphere, solar r	
cardiovascular disease, human nutrition, arteries, epi- cholesterol, coronary occlusion, diet, lipids, plaque	artery wall	rocket observations wind, solar radiation, energy cycle, biosphere, all	1964 Mar p 62–74
	966 Aug p 48–56	circulation, terrestrial radiation, carbon dioxid	
arteriography, heart surgery, coronary bypass, corona			0 Sept p 54-63 [1189]
	1968 Oct p 36-43	climate, air pollution, carbon dioxide 'window', j	
arteries, coronary disease, medicine, thrombus, mono		temperature of Earth, human activity and clim	
	eb p 74–85 [1351]	hydrology, ground water, water cycle, 'aerologica	971 Jan p 32–42 [894]
surgery, cerebral vascular accident, microvascular su hemorrhage, repair and prevention of stroke by mi	crovascular		n accelerator 973 Apr p 46–61 [907]
	pr p 58–67 [1385]	Great Red Spot, liquid planets, Jovian moons, Ju	iditer, solar system
cholesterol in diet	1952 July p 40		1975 Sept p 118-126
cholesterol and calories	1955 Nov p 48	atmospheric engine, internal combustion engine, st	ratified charge, Otto-
significance of lipoprotein level disputed monoclonal hypothesis	1957 June p 74 1973 Aug p 44	Langen engine, history of Otto engine	1967 Mar p 102-112
athlete, weight-lifting limits	1956 Nov p 70	atmospheric inversion, air pollution, smog air pollution, smog, 'blue haze', particulates, ozo:	1952 May p 15–19
athletics, sports, running records, forecasting by extrap	olation	photochemistry	1955 May p 62-72
	1952 Aug p 52-54	atmospheric ionization, thunderstorms, electric field	d. Wilson hypothesis
sports, footracing, human physiology, psychology, n		atmosphere, thunderstorms replenish Earth's c	harge
running records, Aesop principle 19 sports, running dynamics, foot pressure measured	76 June p 109–119		1953 Apr p 32-37
Atka, oceanography, icebreaker, Antarctica, I G Y, in	1967 Mar p 57	airglow, spectroscopy, atmospheric light, photoc	hemistry
single-topic issue on the planet Earth	1955 Sept p 50-55	atmospheric light, airglow, atmospheric ionization,	1972 Jan p 78-85
Atlantic Ocean, Gulf Stream, ocean circulation, salinit	v. oxygen level.	photochemistry	1972 Ian n 78_85
ocean temperature, Coriolis effect, 'anatomy' of the		atmospheric optics, mirages, optical illusion, refract	tion, Fata Morgana.
subsurface current detected	Jan p 30-35 [810] 1961 Sept p 94	walking on water	1976 Jan p 102-111
atmosphere, atmospheric ionization, thunderstorms, el	ectric field. Wilson	rainbow, reflection, refraction	1977 Apr p 116-127
hypothesis thunderstorms replenish Earth's charge	ge	atmospheric pollution, architecture, sculpture, erosi weathering preservation of stone 1978	on, marble, limestone,
	1953 Apr p 32-37	atmospheric radiation, radiation danger to astronau	June p 126-136 [3012] its 1958 Oct p 54
Mars polar cap, desert, climate, 'canals', picture fro study		atmospheric tides, solar gravitation, lunar gravitation	nn 1054 Mas n 26 20
escape velocity, photosynthesis volcanoes water of	1953 May p 65–73	ozone, Earth, ultraviolet radiation, ultraviolet-ra-	diation hypothesis
nitrogen oxygen, origin and evolution of Earth's	atmosphere		1062 Dag = 40 EE
1953	Aug n 82 96 10241	atmospheric windows, extraterrestrial life, infrared a	istronomy, Venus,
solar coronal solar prominences solar flares ionosp solar and terrestrial atmospheres	here, coupling of	initated astronomy	1965 Aug p 20-29
criai atmospheres	1958 Aug p 34-41	atom, Democritus science history	1949 Nov p 48-49

artificial respiration, Schaefer method, Sylvester method	broun domage but here
1951 July p. 18-21	brain damage, birth trauma, cerebral palsy, monkey experiments, implications for human infants 1969 Oct. p. 76-84 [1158]
mst diu 1952 Ian m 25	
moun-to-moun resuscitation 1958 lune n 40	self angloring and the strong social surveys, psychological testing,
armicial rice, taptoca and peanuts 1954 Oct n 49	aspirin, inflammation, analgesics, fever, histamine reaction,
artificial satellite, orbital motion, telemetry, rocket launcher, plans for	bronchospasm anaphylactic shoot made of action at
U.S. 10-pound (pre-Sputnik) satellite 1956 Nov. p. 41-47	most widely used drug 1963 Nov. p. 96-108
artificial satellites, orbital motion, forecast of lunar rocket expeditions	chelation, hemochromatosis lead possening phonoisis and
1957 June p 47–53	action, Wilson's disease, metal poisoning, heavy metal poisoning,
orbital motion, satellite, space exploration, Sputnik, tracking station,	Done cancer, saliculates, cancer therapy, chemotherapy, made-1
first artificial Earth satellite 1957 Dec p 37–43	exploitation of chelates 1966 May p. 40_50
orbital motion, interferometry, antennae, radio astronomy, tracking	digestion, hydrochloric acid alcohol stomach mucosa self digestion
station, satellite tracking 1958 Jan p 23-29	saleguards 1972 Jan p. 86–93 (1240)
solar particles, cosmic radiation, telemetry, Van Allen belts,	prostaglandin inhibition 1971 Aug p. 45
geomagnetism, radiation belts, space exploration, mapping of radiation belts by Explorer satellites 1959 Mar p 39-47 [248]	aspirin action, in pituitary circuit 1951 Nov p 34
radiation belts by Explorer satellites 1959 Mar p 39-47 [248] relativity theory, Mercury, stellar shift, electromagnetic frequency shift,	-B-,, Chaga's disease, predator-prey relationship,
perihelion shift, clock paradox, general relativity, testing Einstein's	entomology, natural history 1960 June p 72–78
general theory of relativity 1959 May p 149–160	assembly, robot, labor-saving devices, computer applications,
ionosphere, climate, aurora borealis, Van Allen belts, orbital motion,	manufacturing productivity, programmable robot for product assembly 1978 Feb. p. 62–74 [929]
meteorology, solar particle influence on Earth atmosphere	assembly 1978 Feb p 62-74 [929] assembly lines, mass production, Sweden, work satisfaction, worker
1959 Aug p 37-43 [851]	teams, management science, 'scientific management'
orbital motion, space exploration, Mercury, re-entry vehicle, ablation.	1975 Mar p 17-23
re-entry corndor, re-entry from space 1961 Jan p 49-57	Assyrian civilization, commerce, Anatolia, 2000 B C, trade patterns
communication satellite, telecommunication, orbital motion. Echo II	1963 Feb p 96–106
satellite, radio, satellite communication systems, consideration of	aster yellow, virus, leafhopper, virus infective to plant and insect
alternatives 1961 Oct p 90–102	1953 June p 78-86
geomagnetism, Lorentz force, magnetosphere, solar radiation, Van	asteroid belt, meteorite 1970 Mar p 59
Allen belts, radiation belts, aurora, physics of Van Allen belts	asteroids, Icarus, meteorites, orbital motion 1965 Apr p 106-115
1963 May p 84–96	diamond, meteorites, Canyon Diablo meteorite, iron-nickel phases,
orbital motion, X-ray astronomy, satellite-emplaced telescope	shock hypothesis, origin of meteorites 1965 Oct p 26-36
1963 Aug p 28–37	albedo, meteorites, planetisimal collisions, solar system formation, primordial dust cloud 1975 Jan p 24-33
geomagnetism, solar wind, magnetosphere, aurora, magnetometer, orbital motion 1965 Mar p 58-65	primordial dust cloud 1975 Jan p 24-33 meteorids, moons, solar system, planetisimals 1975 Sept p 142-159
Mars, space exploration, Mariner 4, telemetry, spacecraft navigation,	reflectivity 1970 Aug p 46
spacecraft 1966 Mar p 42–52	asthma, allergy, hypersensitivity, stress 1952 Aug p 28-30
communication, telecommunication, data transmission, pulse code	astroblemes, fossil crater, Chubb crater, meteoritic impact, cratering
modulation, digital transmission 1966 Sept p 144-156	1951 May p 64-69
Earth, orbital motion, geoid, equatorial bulge, shape of the Earth	coesite, meteorites, shatter cones, cratering, fossil Earth catastrophes
1967 Oct p 67–76 [873]	1961 Aug p 50–58 [801]
ultraviolet radiation, ultraviolet astronomy, Sun, spectroheliograph	exhumed by glaciation on Canadian shield 1973 July p 51 astrochemistry, interstellar matter, molecular spectra, space exploration,
1969 June p 92–102	local galaxy 1973 Mar p 50-69
communication satellite, COMSAT, Intelsat, Communications Satellite Act (1962) 1977 Feb p 58–73 [353]	see also interstellar chemistry
Act (1962) 1977 Feb p 58–73 [353] tracked by amateurs 1956 Mar p 54	astrolabe, ancient instruments, analogue computer, planispheric
US launches world's third 1958 Mar p 52	astrolabe, science history, how they did it then 1974 Jan p 96-106
artificial satellites, artificial satellite, orbital motion, forecast of lunar	astronaut, scientist 1966 Nov p 72
rocket expeditions 1957 June p 47–53	astronomical atlas, Palomar sky survey 1949 Aug p 24
artificial sensory organs, automata theory, feedback, mechanical	astronomical observatory, genesis of Kitt Peak 1956 Jan p 44
behavior, an imitation of life 1950 May p 42–45	astronomical probabilities, intelligent life, evolution, The thesis man is alone in space 1953 July p 80-86
artistic creations, premature discoveries, scientific creations, uniqueness	alone in space 1953 July p 80-80 astronomical telescope, infrared astronomy, infrared stars, 62-inch
of scientific discoveries 1972 Dec p 84-93 [1261]	telescope at Mount Wilson 1968 Aug p 50-65
Arum family, voodoo lily, insect attractant, carnivorous plants,	astronomical unit, solar system, space exploration, Venus probes, Doppler
respiration Arzawa, Anatolia, archeology, Hittites 1900 July p 40–40 1905 July p 42–46	effect, radar, Earth-Sun distance more precisely measured
Aschoff bodies, rheumatic fever, streptococcus, infection, immune	1961 Apr p 64-72
response, heart disease, hypersensitivity 1965 Dec p 66-74	astronomy, Greek astronomy, Ptolemaic system 1949 Apr p 44-47
escites tumor isotones, radioautography, cell life cycle, cellular	galaxies, red shift, galactic recession, universe expansion, science, stellar evolution general relativity, astronomy 1900-1950
1963 Aug p 103-110 [103]	1950 Sept p 24-27
asexual reproduction, Hydra, sexual reproduction, cell differentiation,	Schmidt telescope, sky survey, the 48 inch Schmidt telescope at
growth regulation, carbon dioxide as 'sex gas' 1959 Apr p 145-156	Palomar Mountain 1950 Dec p 34-41
Ashanti, Tallensi, social anthropology, kinship, extended family, social structure, social psychology, primitive Tallensian and Ashantian	Hooke, microbiology, science history, life and work of Robert Hooke
	1954 Dec p 94-98
A ill-man conformed, gene manipulation, molecular cloning, plasmids,	image enhancement, electronic camera, image intensifier, telescope,
hinger DNA hazard evaluation 1970 July p 24-55 [25-1]	electronic image processing 1956 Mar p 81-90 philosophy of science galactic clusters, universe, planetary motion
. 11 -basican behavioral psychology criminal law, numan behavior,	solar system cosmology, introduction to single topic issue on the
munchment criminology milien therapy, benavioral science and the	1956 Sept p 72–81
criminal law	ultraviolet radiation telemetry, Sun, rocket-borne instrumentation
asparaginase, cancer therapy, leukemia 1908 Aug p 54-70	1959 June p 52-59
asphalt, petroleum, for beneficiation of samp 1967 Sept p 106	observatory, scientific instrumentation, Tycho Brahe Stjerneborg
asphalt biliber, carried building bradycardia respiratory gas exchange, diving	science history, 16th century Hven observatory 1961 Feb p 118-128
	polarization supernovae Crab Nebula photometric observations of
ischemia human physiology, redistribution of objectation and 106	nova outbursts 1962 Apr p 54-63
'master switch of life'	

gamma-ray astronomy, Earth satellite, telemetry, firs	t glimpse of	airglow, ionosphere, solar radiation, ozone, oxyger	
gamma-ray sky	1962 May p 32-61	atmosphere, laboratory simulation, atomic energ	
calendar, solar system, planetary motion, time, helioc	centric theory,		1966 Mar p 102–110 hore
year, Copernicus, astronomy, Copernicus, length o	of calendar year	interplanetary space, Mars, Mariner 4, magnetospl micrometeorites, trapped radiation, solar wind,	ncie, cosmic radiation
	1966 Oct p 88–98	space exploration	1966 May p 62–72
Stone Age Polynesian navigators	1959 Nov p 92 1965 Jan p 48	Mars, Venus, space exploration, atmospheric diffe	
telescope construction program urged	1968 Nov p 55	Wars, venus, space exploitation, authosphorio ente	1969 Mar p 78-88
instrumentation improvements	1974 Sept p 72	wind, ocean circulation, climate, Conolis effect	1969 Sept p 76-86
prescientific astronomy see also radio astronomy, gamma-ray astronomy an		calcium carbonate, carbon cycle, sedimentary rock	
astrophysics, light scattering, zodiacal light, zodiacal light	ght and	fossil fuel combustion, biosphere, carbon dioxid	
interplanetary dust	1960 July p 54–63	1970 Se	pt p 125-132 [1193]
neutrino high-energy physics, neutrino astronomy, i	neutrino 'telescope'	Earth crust, geochemical cycle, hydrologic cycle, h	thospheric cycle
1962 /	Aug p 90-98 [283]		4 June p 72–79 [414]
Eotvos experiment, red shift measurement, relativity	theory, gravitation	carbon dioxide 'window', climate, biomass, ocean	sediments, humus,
theories assessed	1974 Nov p 24–33	'greenhouse effect', threat of 'greenhouse effect'	T 24 42 (1276)
maser, cosmic masers, hydroxyl maser, water maser,	maser star,		3 Jan p 34-43 [1376]
interstellar matter, quantum mechanics, 'nature ir	nitates art'	oxygen level	1970 Oct p 54
1	978 June p 90-105	soil as CO sink	1971 Aug p 47 1974 Oct p 58
chemistry of comet	1956 Sept p 113	superpressure balloon atmosphere-hydrosphere cycles, biosphere, Earth, eve	
Kozyrev controversy	1960 Jan p 72 1961 Mar p 84	photosynthesis, environment, introduction to si	ngle-tonic issue on
Lacerta celestial supermagnet	1961 Mar p 64		Sept p 44-53 [1188]
Gegenschein	1963 Dec p 67	atmospheric circulation, Corrolls effect, ocean circula	
X-ray source near galactic center	1972 Feb p 41		2 May p 72-78 [839]
Hubble constant, red shift expansion of universe, test by microwave absorption		Jet stream, upper atmosphere, weather, index cycle	
gamma-ray bursts	1975 Apr p 56	J	1952 Oct p 26-31
asynchronous muscle, muscle fibril, sarcoplasmic retic		trade wind clouds, climate, cumulus clouds, ocean-	-atmosphere
synchronous muscle, insect flight muscles	,	interface	1953 Nov p 31-35
1965 J	June p 76-88 [1014]	Earth, solar energy, Earth rotation, circulation of t	
atelectasis, see hyaline membrane disease			955 Sept p 114-124
ateliosis, midgets, pituitary insufficiency, dwarfism, go	enetic disease,	wind, meteorology, cyclone, anticyclones, source o	
congenital anomalies, consanguinity, growth hor	mone deficiency,		6 Dec p 40–45 [841]
F	967 July p 102–110	hurricanes, air masses, upper atmosphere, tropical	7 Aug p 33–39 [847]
Athens, Agora, Classical archeology	1950 Aug p 46–51	weather satellites, Tiros, telemetry, heat budget of	
Xerxes, Themistocles, Salamis, Classical archeology	961 Mar p 111–120	videocameras, photographic weather maps, wea	
480 B C, tablets deciphered 19 atherosclerosis, hypertension, angiotensin, stress, etio			1961 July p 80–94
hypertension	1948 Aug p 44-47	Antarctica, climatology, solar radiation, albedo, A	
artery prostheses, cardiovascular disease, vascular			2 Sept p 84-94 [859]
vascular disease damage	1961 Apr p 88–104	meteorology, weather, upper atmosphere, solar rac	
cardiovascular disease, human nutrition, arteries, e	pidemiology,	rocket observations	1964 Mar p 62-74
cholesterol, coronary occlusion, diet, lipids, plaq	ue, artery wall	wind, solar radiation, energy cycle biosphere, albe	
	1966 Aug p 48–56	circulation, terrestrial radiation, carbon dioxide	_
arteriography, heart surgery, coronary bypass, coro	1968 Oct p 36-43	energy cycle 1970 climate, air pollution, carbon dioxide 'window', pa	Sept p 54–63 [1189]
arteries, coronary disease, medicine, thrombus, mo		temperature of Earth, human activity and clima	
plaque formation 1977	Feb p 74–85 [1351]		71 Jan p 32–42 [894]
surgery, cerebral vascular accident, microvascular		hydrology, ground water, water cycle, 'aerological	
hemorrhage, repair and prevention of stroke by		197.	3 Apr p 46-61 [907]
	Apr p 58-67 [1385]	Great Red Spot, liquid planets, Jovian moons, Jup	nter, solar system
cholesterol in diet	1952 July p 40		975 Sept p 118-126
cholesterol and calones	1955 Nov p 48	atmospheric engine, internal combustion engine, stra	tified charge, Otto-
significance of lipoprotein level disputed	1957 June p 74	Langen engine, history of Otto engine	1967 Mar p 102–112
monoclonal hypothesis athlete, weight-lifting limits	1973 Aug p 44 1956 Nov p 70	atmospheric inversion, air pollution, smog air pollution, smog 'blue haze', particulates, ozone	1952 May p 15–19
athletics, sports, running records, forecasting by extr		photochemistry	
	1952 Aug p 52–54	atmospheric ionization, thunderstorms, electric field,	1955 May p 62–72 Wilson hypothesis
sports, footracing, human physiology, psychology,		atmosphere, thunderstorms replenish Earth's ch	arge
	1976 June p 109-119		1953 Apr n 32-37
sports, running dynamics, foot pressure measured	1967 Mar p 57	airglow, spectroscopy, atmospheric light, photoche	emistry
Atka, oceanography, icebreaker, Antarctica, I G Y,			1972 Ian n 78_85
single-topic issue on the planet Earth	1955 Sept p 50-55	atmospheric light, airglow, atmospheric ionization, sp	pectroscopy,
Atlantic Ocean, Gulf Stream, ocean circulation, salii ocean temperature, Coriolis effect, 'anatomy' of	nity, oxygen level	photochemistry	1972 Jan p 78-85
ocean temperature, conons effect, anatomy of	55 Jan p 30–35 [810]	atmospheric optics, mirages, optical illusion, refraction walking on water	on Fata Morgana,
subsurface current detected	1961 Sept p 94		1976 Jan p 102-111
atmosphere, atmospheric ionization, thunderstorms,	electric field, Wilson	atmospheric pollution, architecture, sculpture, erosion	1977 Apr p 116–127
hypothesis, thunderstorms replenish Earth's ch	arge	weathering, preservation of stone 1978 In	ine n. 126 136 (2012)
Man malanas I a I a I a I	1953 Apr p 32-37	atmospheric radiation, radiation danger to astronaute	c 1050 Om - 64
Mars, polar cap desert, climate, 'canals', picture f		atmospheric tides, solar gravitation, lunar gravitation	1954 May n 26 20
study escape velocity, photosynthesis, volcanoes, water	1953 May p 65–73	ozone, Earth, ultraviolet radiation ultraviolet-radi	ation hypothesis
nitrogen oxygen, origin and evolution of Earth	oi crysiallization,		1062 10 40 55
104	52 Aug - 02 86 18241	atmospheric windows, extraterrestrial life, infrared as	tronomi Vanua
solar corona solar prominences solar flares, iono	osphere, coupling of	Mars, Jupiter, moon, spectrometry, history and infrared astronomy	recent results of
solar and terrestrial atmospheres	1958 Aug p 34-41	atom, Democritus, science history	1965 Aug. p 20–29
		-,	1949 Nov p 48-49

Pauli exclusion preparate di			
Pauli, exclusion principle, theoretical physics, and	imatter, quantum	fallout, US Federal Radiation Council recon	nmendations
mechanics, structure of atoms and nuclei 19 muonium, muon, electron, elementary particles, e	59 July p 74–86 [264	7	1959 Oct p 80
positronium, structure of muonium		moratorium	1959 Oct p 80
glass, metals, materials technology, ceramics, poly	1966 Apr p 93–100		1960 Sept p 104
composite materials, elements, introduction to	mers, chemicai band,		1961 Dec p 72
materials	1967 Sept p 68-79	not muffled by 'Latter hole'	1962 Feb p 72
field-ion microscope	1968 Mar p 53–54		1962 July p 71
elementary particles, energy levels, nucleus, high-	Pherov physics		1962 July p 78
spectroscopy, 'three spectroscopies'	1068 May n 1510	generates evanescent 'Van Allen belt'	1962 Oct p 58
bibliography of the atom, UN Atomic Energy Co	mmission	detection by seismic methods 'atomic city', in Brazil	1971 Nov p 46
,	1948 Oct p 25	atomic clock, ammonia maser, cesium clock, mas	1952 Mar p 34
atom visibility, electron microscopy, microscopy, sca	nning electron	mirror, improvements on sidereal time	er, zenith tube, mercury 1957 Feb p 71–82 (225)
microscope	1971 Apr p 26~35	Mossbauer effect, relativity theory, resonance	absorption Donnler
'Atomgrad', rumor and speculation	1949 Nov p 26	effect, general relativity tested by atomic clo	ck
atomic armaments, ABM, ICBM, MIRV, counterfor	ce strategy, strategic		1960 Apr p 72–80 [271]
weapons, mutual assured destruction, arms race	: 1973 Nov p 18-27	ammonia standard	1949 Feb p 28
atomic armory accident, technician killed by radiatio		interstellar travel time	1956 Dec p 58
formulation of the first	1959 June p 86	1	1959 Sept p 102
'atomic batteries', Adm Strauss proposal for automo		terrestrial relativity test	1960 Jan p 72
atomia hamb. Toward I done	1948 Dec p 26		1962 Aug p 55
atomic bomb, Enswetch tests	1949, Oct p 20-21		
blast waves, property damage	1953 Apr p 94–102		nternational
Blackett on fear, war and the bomb	1949 Jan p 28		
strategic bombing, civilian morale, 'bomb not abso P M S Blackett		provisions of Atomic Energy Act of 1954	1954 Nov p 31–35
a decisive weapon says L N Ridenour	1949 Mar p 19 1949 Mar p 19	in conference committee 1954 bill becomes law	1954 Sept p 71
U S stockpile estimated	1949 Mar p 24	atomic energy bill, Eisenhower amendments	1954 Oct p 46 1954 Apr p 44
Blackett views decried in U S	1949 Apr p 24	1954 bill in Congress	1954 May p 50
U S S R producing, says Heisenberg	1949 Apr p 25	in hearings	1954 July p 44
critical mass experiment	1949 Oct p 26	Atomic Energy Commission, see AEC	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
arms case, USSR explodes its first bomb	1949 Nov p 26	atomic explosions, 'Plowshare', underground nucle	ar explosions, Rainier
•	·	explosion, search for constructive use for nucl	ear explosions
Klaus Fuchs convicted as spy	1950 Apr p 30		1958 Dec p 29-35
A E C 'effects' handbook	1950 Sept p 44	atomic microscope, X-ray diffraction, diffraction	1951 July p 56-57
backyard fallout shelters	1950 Nov p 24	atomic nucleus, shell model, 'magic numbers', spin-	
military secrecy, 'secret' disclosed at Rosenberg-Sol	bell trial	of isotopes	1951 Mar p 22–26
110 4 -41	1951 May p 33	nuclear structure, neutron cross sections, 'model ball'	1955 Dec p 84-91
US tactical nuclear weapons	1951 Nov p 32 1955 July p 50	nuclear physics, high energy physics, particle-sca	
fission-fusion-fission, 'dirty' bomb A E C 'effects' handbook in third edition	1962 July p 70	electron scattering models of the atomic nucle	us
France, China and 'nth' country	1964 Dec p 60		56 July p 55-68 [217]
Rosenberg-Sobell trial evidence declassified	1966 Oct p 43	science history, particle-scattering experiments, R	utherford, biography
atomic bomb test, environmental pollution, ionizing ra	idiation,		1956 Nov p 93–104
background radiation, nuclear medicine, introduc	ction to single-topic	shell model, optical model, high energy physics, li	
tissue on ionizing radiation	1959 Sept p 74-83	charge exchange, spin-orbit force, resonance 'pa neutron, structure of the nucleus	1959 Jan p 75–82
ionizing radiation, isotopes, fallout, environmental j	pollution, nuclear	high-energy physics, particle-scattering experimen	
medicine, circulation of radioisotopes	1959 Sept p 84-93	accelerator, method and technology of high ene	rev physics
radiation damage, ionizing radiation, leukemia, imm fallout, nuclear medicine, radiation damage, whol	nune response,	accelerator, memo 2 and reasons ago to a ago.	1960 Mar p 98-114
fallout, nuclear medicine, radiation damage, who	59 Sept p 117-137	spectroscopy, fast neutrons, nuclear probe, neutron	n spectroscopy,
environmental pollution, ionizing radiation, fallout,	radiation damage,	structure of atomic nucleus	1964 Mar p 79–88
mutation public health bazards of radiation to so	ciety	nuclear fission, charge distribution, nuclear probe,	
1959 Sept	p 219-232 [1214]	and size of nucleus	1969 Aug p 58–73
arms control, seismology, underground nuclear explo	osions, how to	chēmical bond, energy levels, gamma radiation, mo Mossbauer spectroscopy	1971 Oct p 86–95
detect underground weapons tests and distinguish	from small	alpha clustering, alpha particles, elementary particl	
parthaugles	1962 June p 33-33	clustering, neutron, nuclear forces, nuclear surface	e, proton
forest ecosystem, X-ray, gamma radiation, white oak	, weeds,	19	972 Oct p 100~108
environmental pollution, ecological effects of high	une p 40-49 [159]	atomic structure, exotic atoms, kaonic atoms, muon	ic atoms, particle
arms race, atomic test ban, national security, missile	policy, military	accelerator, pions, quantum mechanics, high-ener	
tachmology follows shelters 1904 (JC(D 21-33 [312]	19	72 Nov p 102–110
earthquakes atomic test han underground nuclear e	xplosions,	isotopes, elements, radioactive decay, 'synthetic' elements 1978 July 1978 J	ine p 60-72 [3010]
seismology, arms control, detection and discrimina	HOH OI	smaller 'measuring rod'	1953 July p 41
underground atomic weapons tests	(900 July P 17-27	structure of nucleus by electron-scattering	1956 Feb p 50
in atmosphere, in Nevada	1951 Mar p 28 1951 Dec p 34	particle physics strong interactions	1962 Nov p 70
testing continues in Nevada	1952 Apr p 36	Laon probe measures radius	1969 July p 52
by the U K	1952 Dec p 34	-to-rio notante pavoff on Diulonium	1955 Sept p 70
British bomb hydrogen bomb, Fortunate Dragon Marshall island	1954 May p 46	'atomic pool' proposal, nuclear power, international coo	955 Apr p 31-35
hydrogen bomb, Fortunate Dragon Maistan island fallout hazards	1956 Dec p 56	atomic power, see nuclear power	ros ripe p st-us
strontium 90 fallout	1957 Apr p 76		1974 July p 46
cobalt 60 in clams	1957 June p 80		ance absorption
fallout A E C Project Sunshine	1957 Aug p 56 1958 Sept p 84	coherent radiation, gas molecules nuclear magnetic	resonance,
fallout irradiation effect on human population	1958 Sept p 64 1959 Jan p 62	Stern-Gerlach experiment	965 May p 58-74
fallout carbon 14, C14 fallout	1959 May p 69		
ın atmosphere	•		

1970 Sept. p. 148-158 [119:

bacteria, carboxylation cycle, eutrophication, mineral cycles in the

atomic reactor, see: breeder reactor, fission reactor, fus	sion reactor and the	arms race, SALT, MIRV, counterforce strategy, destruction, MIRV, as key to SALT negotiati	ons
atomic rocket, terminated	1951 Apr. p. 32		1970 Jan. p. 19–29 [6:
atomic structure, quantum mechanics, special relativity	v. high-energy	ABM systems, arms race, ICBM, MIRV, SALT	, atomic test ban,
physics, science, physics 1900-1950	1950 Sept. p. 28-31	strategic weapons, prospects for freeze on nur	mbers and qualitative
magnetic resonance, high pressure, magnetic field, e		improvement of weapons	1971 Jan. p. 15-
atom, behavior of atoms under high pressure	965 Jan. n. 102–108	counterforce strategy, cruise missiles, MIRV, ar	ms race, missile
Bragg's law, X-ray crystallography, crystal structure	Y-ray diffraction	accuracy, strategic weapons, C.E.P., accuracy	
	July p. 58–70 [325]	acountry, as a open was promise in the accountry	1975 July p. 14-
		arms race, neutron bomb, tactical nuclear weap	
atomic nucleus, exotic atoms, kaonic atoms, muonic	bysios	develop and deploy enhanced radiation weap	
accelerator, pions, quantum mechanics, high-energian	rgy physics		78 May p. 44-51 [30(
	72 Nov. p. 102–110	Savannah River reactor	1951 Jan. p.
crystallographic techniques, 'extended fine structur	e' effect, materials		1954 Mar. p.
	1976 Apr. p. 96–103	Livermore laboratory	•
crystal structure, disclinations, dislocations, molecu		negotiations revived	1955 Jan. p.
	ec. p. 130-145 [393]	German Federal Republic denunciation	1957 June p.
atomic test ban, arms race, national security, atomic b	omb test, missile	simulation of nuclear explosion	1961 Aug. p.
policy, military technology, fallout shelters 1964	Oct. p. 27–35 [319]	nth power question	1973 Sept. p.
earthquakes, atomic bomb test, underground nucle	ar explosions,	atomic weight, carbon 12 standard	1961 Oct. p.
seismology, arms control, detection and discrimi-	nation of	atoms, elementary particles, electron, neutron, pro	
underground atomic weapons tests	1966 July p. 19–29	of 'ordinary matter'	1967 May p. 126-1
ABM systems, arms race, ICBM, MIRV, atomic wa	eapons, SALT,	'atoms for peace', nuclear power, thermonuclear re	
strategic weapons, prospects for freeze on number	ers and qualitative	fusion reactor, C.E.R.N., first of a four-part i	
improvement of weapons	1971 Jan. p. 15-25	International Conference on the Peaceful Use	es of Atomic Energy,
arms control, seismology, underground nuclear exp	olosions, technology	Geneva, August 1945	1955 Oct. p. 27-
for verification of underground nuclear test ban		nuclear power, nuclear fuel, fuel-element fabric	ation, uranium ore,
	2 Jan. p. 13-23 [343]	Geneva: chemistry	1955 Oct. p. 34-
arms control, 'fireball blackout', EMP effect, under		radiation hazards, gene mutation, safety standa	rds, Geneva: biology
explosions, strategic weapons 1972	Nov. p. 15-23 [342]	, , ,	1955 Oct. p. 38-
India as atomic power, nuclear nonproliferation tre		fission reactor, nuclear power, breeder reactor,	Geneva: reactors
SALT	1975 Apr. p. 18-33	,	1955 Oct. p. 56-4
variety of methods for surveillance	1949 Nov. p. 27	secrecy downgraded	1955 Jûly p.
detection of underground nuclear explosion	1958 Oct. p. 52	Ford Motor Company award	1955 Oct. p.
question of detecting and indentifying undergroun		international community	1955 Nov. p.
question of detecting and maentifying andorgroun	1959 Apr. p. 64	U.N. nuclear energy agency	1956 June p.
strontium 90 fallout	1959 May p. 68	U.N.A.E.C. constituted	1956 Dec. p.
detection of underground nuclear explosion	1959 Aug. p. 61	U.N. agency staffed	1957 Dec. p.
	1959 Sept. p. 103	U.N. agency in Latin America	1958 Aug. p.
detection of high-altitude testing	1960 Jan. p. 70	Atoms for Peace Award, to Bohr	1957 May p.
control organization disagreement on seismic surveillance	1960 Feb. p. 64	Enrico Fermi Award, 1958 winners	1959 Jan. p. (
Geneva 1960 talks	1960 Apr. p. 82	to Szilard, Wigner, Weinberg, Zinn	1960 June p.
detection of underground nuclear explosion	1960 June p. 80	ATP: adenosinetriphosphate	1300 June p. 1
U.SU.S.S.R. negotiations	1960 July p. 76	ATP, muscle contraction, actin, myosin, muscle fi	bril biochemical
U.S. & U.S.S.R. approach agreement	1962 Sept. p. 98	mechanism of muscle contraction	1949 June p. 22-:
underground testing	1962 Oct. p. 58	muscle contraction, artificial muscle, Langmuir	
monitoring underground explosions	1963 Jan. p. 58	muscle relaxation	1952 Dec. p. 18~:
inspection controversy	1963 Mar. p. 72	muscle contraction, fermentation, citric-acid cy	1932 Dec. p. 10~.
inspection controversy (cont.)	1963 Apr. p. 80	transformation	1953 Apr. p. 85.4
U.SU.S.S.R. negotiations	1963 Aug. p. 48	fat metabolism, fatty acids, coenzyme A, enzym	1933 Apr. p. 63∽
terms of U.SU.KU.S.S.R. agreement, 31 signer	s 1963 Sept. p. 82	iat inclabolism, ratty acids, cocheyme A, cheym	1954 Jan. p. 32–36 [1
next in outer space	1963 Nov. p. 64	citric-acid cycle, mitochondrion, cell metabolism	1934 Jan. p. 32~30 [1
brake on arms race	1964 Feb. p. 66	of biological oxidation	
seismograph array	1965 Mar. p. 54	cytology, energy transformation, mitochondrion	1958 July p. 56-6
'threshold' treaty criticized	1976 July p. 60	glycolysis, oxidative phosphorylation, membi	i, cime-acid cycle,
threshold test ban treaty	1977 Apr. p. 52	transformation in the cell	
atomic theory, Rutherford-Soddy theory, element tr		photosynthesis, chlorophyll, chloroplast, primar	1960 May p. 102-11
history, radioactivity, radioactive decay transm	utation recention of	energy in photosynthesis	ry capture of fight
'newer alchemy'	1966 Aug. p. 88–94	biotin, B vitamin, function of little-known B vit	1960 Nov. p. 104-11
Greek science, Renaissance science, science histor	Boscovich	ordered by the state of the sta	
	1970 May p. 116–122	chloroplast, mitochondrion, photosynthesis, cel	1961 June p. 139-14
atomic warfare, radar blackout, arms race, counterfor	orce strategy ABM	glucogenesis, citric-acid cycle, glycolysis, oxic	i illetabolism,
ICBM, U.S. ABM system capabilities and limi	tations	cytology, cellular transformation of energy	lative phosphorylation
- apaoning did init	1968 Mar. p. 21-31	chlorophyll, photosynthesis, chloroplast, electro	1901 Sept. p. 62-73 [9
fission products as weapons	1950 Sept. p. 46	pigments, role of chlorophyll in photosynthes	on transfer, cytochrome
atomic-weapon proliferation, nuclear nonproliferation	on treaty, nuclear-free	p.g.menis, role of emolophyn in photosynthes	615, 365 tuli - 24 62 1104
zones, freaty of Flatelolco	1975 Nov. p. 25~35	actin, muscle contraction, myosin, electron mich	965 July p. 74–83 [10]
energy conservation, energy resources, nuclear re-	actor fission reactor	filament hypothesis	65 Den = 10 22 (10-
nuclear-waste disposal, Rasmussen report 10	976 Ian n 21-31 [348]	mitochondrion, glycolysis, cell membrane, enzy	65 Dec. p. 18-27 [102]
nuclear power, arms control, plutonium fuel evel	e breeder reactor	phosphorylation, cell metabolism, mitochond	nics, o dualive
U.S. energy policy and proliferation of atomic	weapons	10 10 The state of	KS Esh o 22 20 ***-
107	10 A 45 57 1200A1	muscle contraction, calcium, barnacle, biolumir	68 Feb. p. 32–39 [110
atomic weapons, A.E.C., nuclear power, science fun	iding, university	calcium ions in muscle construction 10	70 40- 0 04 03 111-
research, initiary secrecy	1040 Inly n 30.43	mineral cycles, biosphere, phosphorus cycle, sul	70 Apr. p. 84-93 [117]
military deterrence, counterforce strategy, arms	control arms race	home	rar cycle, sullur

1962 Apr. p. 45-53

biosphere

military deterrence, counterforce strategy, arms control, arms race,

U.S.A.-U.S.S.R. negotiating postures

muscle, glycolysis, aerobic metabolism, oxygen debt, lactic acid	
formation, aerobic metabolism, anaerobic metabolism, energy	auditory localization, directional orientation, auditory perception,
mechanisms in muscle 1972 Mar p. 84-91 1124	1061 Oct = 122 142
ACTH, glucogenesis, glycolysis, hormone, epinephrine, cell	"I addition perception, music, sound reproduction, take recorders, cases
metabolism, cyclic AMP, activation of cyclic AMP by hormones	branniapholics, eligindening of sound everence loci A
1972 Aug p 97-105 [1256	directional orientation, bearing duditors lead
actin, myosin, actinomyosin, muscle contraction, tropomyosin,	² 1961 Oct n 132 142 i
troponin, calcium, microstructure of muscle filament and	soliar, bats, predator-prey relationship, moths, ultrasound, moth so
biochemistry of contraction 1974 Feb p 58-71 [1290	detection of dat ultrasound 1065 Apr n 04 102 13
axoneme, cell motility, cilia, flagella, microtubules, how cilia move,	Julian nemispheres, cerebral dominance, left-hemisphere functions
paramecium, sperm 1974 Oct p 44–52 [1304	music perception, right-hemisphere functions, visual perception
cell membrane, colicine, membrane energetics, active transport, E coli	J 1973 Mar n 7078 ti
1975 Dec p 30–37 [1332	auditory beats, brain, hearing, neurology, sound vibrations
oxidative phosphorylation, cell membrane, active transport,	
mitochondrion, chloroplast, formation of the energy-exchange	brain hemispheres, cerebral dominance, musical illusions, handedne
molecule in the cell 1978 Mar p 104-123 [1383]	hearing, illusions, perception, two-tone illusion
in muscle contraction 1955 Mar p 52	
mitochondria 1963 June p. 77	17 17 17 17 17 17 17 17 17 17 17 17 17 1
ATP synthesis, mitochondria, electron transfer, oxidation membrane,	
mitochondrion, proposed structure of mitochondrion	antibiotics, penicillin, streptomycin, chloramphenicol, infectious
1964 Jan p 63-74	
atrioventricular node, heart contraction, heart rate, cardiac pacemaker,	promising in radiation sickness 1952 Apr p 49-
sinus node 1967 Mar v 32–37 (1067)	animal growth accelerator 1950 June p
attack prevention, animal behavior, sharks, sensory systems, feeding	Aurignacian-Perigordian, Paleolithic Europe, Cro Magno art,
behavior 1962 July p 60-68 [127]	Magdalenian, cave paintings 1953 Aug p 30-
attention, emotion, pupil size, attitude, eye, effect of attitude on pupil size	aurora, upper atmosphere, stratosphere, ionosphere, radio
1965 Apr p 46-54 [493]	communication, noctifucent clouds, meteorology 1949 Jan p 30-
learning, physiological psychology, novelty, conflict, monotony,	Sun, solar flares, ionospheric storms, sunspots, geomagnetic storms
conflict and arousal, aid to learning 1966 Aug p 82-87 [500]	1951 Dec p 17-2
brain waves 1974 Apr p 51	magnetic storms, sunspots, cone of avoidance, solar wind, solar
attention mechanism, speech perception, hearing, cochlea, phonetics,	rotation, corpuscular streams, cycles in 'solar wind'
neuropsychology, hearing two messages at a time	1955 Feb p 40-4
1962 Apr p 143–151 [467]	Earth, airglow, corpuscular streams, solar spicules, nightglow, aurora
attitude, emotion, pupil size, eye, attention, effect of attitude on pupil size	and airglow 1955 Sept p 140-15
1965 Apr p 46-54 [493]	Antarctica, Earth magnetic field, 'whistlers', upper atmosphere, solar
attitude adaptation, metabolism, oxygen starvation, erythrocyte,	wind, atmosphere-magnetic field-solar wind interaction
acclimatization 1955 Dec p 58-68	1962 Sept p 74–83 [858
attitude survey, public opinion, American soldiers, social discrimination,	artificial satellite, geomagnetism, Lorentz force, magnetosphere, solar radiation, Van Allen belts, radiation belts, physics of Van Allen belts
sociology, studies of attitudes and morale of U S troops during	1963 May p 84-91
World War II, including experiments in racial integration of military units 1949 May p 11–15	artificial satellite, geomagnetism, solar wind, magnetosphere,
units 1949 May p 11-15 prejudice, hostility, insecurity 1950 Oct p 11-13	magnetometer, orbital motion 1965 Mar p 58-65
mass communications, elections, public opinion 1953 May p 46-48	cosmic radiation, interplanetary fields interplanetary particles,
elections, public opinion, voting behavior, election of 1952	magnetosphere, solar flares, solar wind, Van Allen belts, solar system
1954 May p 31–35	1975 Sept p 160-173
public opinion, American Negro, US whites, desegregation, racial	aurora borealis, artificial satellite, ionosphere, climate, Van Allen belts,
segregation, sociology, longitudinal attitude study	orbital motion, meteorology, solar particle influence on Earth
1956 Dec p 35–39	atmosphere 1959 Aug p 37–43 [851]
desegregation, racial integration, public opinion, US whites, American	solar wind, solar corona, Earth magnetic field, Van Allen belts, comet
Negro, longitudinal attitude study reported in 1956	tails, magnetic storms 1964 Apr p 66-76
1964 July p 16-23 [623]	geomagnetism, solar radiation, ionosphere, magnetosphere, solar wind,
desegregation, racial integration, American Negro, US whites, public	physics of the autora 1965 Dec p 54-62 ausform process, crystal structure, steel alloys, materials technology, heat-
opinion, longitudinal attitudes study 1971 Dec p 13-19 [673]	treating for strength 1963 Aug p 72-82
female-role ideology, sex roles, women's aspirations 1972 Jan p 34-42	Australia, rabbit plague, myxomatosis, pest control 1954 Feb p 30-35
19/2 Jail p 54-42	behavioral adaptation, ecology, insect behavior, sand wasps, solitary
racial discrimination, prejudice, American Negro, public opinion, US whites, segregation, integration, longitudinal attitude study	insects, Bembix 1975 Dec p 108-115
whites, segregation, integration, longitudinal attitude stady	Australian antigen (B), antibodies, hepatitis A, hepatitis B, transusion
atypical pneumonia, by aspiration 1952 Jan p 36	hepatitis, viral hepatitis, viral structure, viral disease
audialogical resparch, cocktall-party effect 1960 Apr p 92	1977 July p 44–52 [1365]
audiories technology, thermoplastic recording 1960 Feb p 70	Australopithecus, man-apes human evolution, Homo, Paranthropus,
auditoriums, architectual acoustics, sound waves, wave acoustics, sound	Plestanthropus 1949 Nov p 20-24 [832] Gigantopithecus, human evolution, hominid, pongids
interference, sound diffraction, acoustic reverberation, effective	Gigantophnecus, naman evolution, nominia, pongas 1970 Jan p 76-85
and of cound in public huildings and dwellings	ape-man tools 1957 June p 80
1963 NOV P 18-32	tool and fire user 1960 May p 95
auditory beats, brain, hearing, neurology, sound vibrations, auditory	hominid antiquity 1967 Mar p 52
19/3 Oct p 34-102 (1-02)	hominids, toolmaking 1971 Mar p 46
auditory discrimination, bats, bat sonar, sonar, echo-sounding, sensory	fossil dating 1971 Apr p 52
perception, supersonic sonar of bats 1958 July p 40-49 [1121]	stone tools toolmaker 1974 Aug p 48
auditory illusions, hearing, perception, phonetics speech perception, illusions, psychology, illusions as clues to organization of perceptual	from Homo to ape 1976 Feb p 54B
appropriate [970 Dec p 20 22 [14 1]	Australopithecus Paranthropus, man-apes, human evolution, Plesianthropus primates, hominids branched from other primates 30
apparatus	million years ago 1948 May p 16-19
ance pollution industrial hydiene, bublic ficulti, preventing	Million years ago Homo divergence 1969 June p 56
	autism, child psychiatry, schizophrenia, psychoanatysis eniotion it
1966 Dec p 66-76 [306]	deary 2000 'mechanical boy' 1959 Mar p 116-127 [439]

deprivation 'mechanical boy'

behavioral psychology, child psychiatry, emotional illness,	cargo handling, shipping, containerization, loading, air transport 1968 Oct. p. 80-88
schizophrenia 1967 Mar. p. 78–86 [505] rubella, measles implicated in autism 1972 Dec. p. 42	chromatography, process control, control systems, predictive control
nutoimmune disease, autosensitivity, nervous disease, multiple sclerosis,	1969 June p. 112–120
allergic mechanisms in nervous disease 1949 July p. 16-19	control systems, feedback, water clock, thermostat, windmills, flyball governor, origins of feedback control 1970 Oct. p. 110–118
antibody production, thymus, immunology, lymphocytes, DNA, thymus role in producing antibodies 1962 Nov. p. 50-57 [138]	computer technology, electric power generation, generator control,
antibodies, antigen complement, immune response, lymphocytes, virus	power-system control 1974 Nov. p. 34–44
antigens, virus disease, allergic reaction, immune-complex disease,	computer applications, machine tool, parts manufacture, batch process production methods 1975 Feb. p. 22–29
glomerulonephritis, lymphocytic choriomeningitis, serum sickness 1973 Jan. p. 22–31 [1263]	computer technology, instructable machines, robot systems,
autolysis, lysosomes, enzymes, phagocytosis, pinocytosis, metamorphosis,	servomechanisms 1976 Feb. p. 76–86B
cellular digestive organ, 'suicide bag' 1963 May p. 64-72 [156]	automatic test systems, microelectronics, measuring instruments, control systems 1977 Sept. p. 180-190 [381]
lysosomes, enzymes, phagocytosis, lysis, chromosome breakage, lysosome implication in disease processes	impact assessed 1966 Mar. p. 54
1967 Nov. p. 62–72 [1085]	automatic factory, on paper 1951 Sept. p. 58
automata theory, cybernetics, feedback, automatic control, self- regulation, computer science, mechanical, biological, social self-	automatic library, 'electronic selector' hunts references 1949 May p. 26 automatic manufacture, electronic equipment, Project Tinkertoy, modular
regulation, computer science, mechanical, biological, social sen- regulation 1948 Nov. p. 14–19	design 1955 Aug. p. 29–33
computer chess, artificial intelligence, 'thinking' approaches an	automatic pilot, aircraft landing, blind landing, air transport, instrument
operational definition 1950 Feb. p. 48-51 feedback, artificial sensory organs, mechanical behavior, an imitation	landing system, precision approach radar, ground-controlled approach 1964 Mar. p. 25–35
of life 1950 May p. 42–45	automatic research, cell analyser 1949 Sept. p. 30
learning, feedback, conditioned reflex 1951 Aug. p. 60-63	automatic synthesis, insulin, protein synthesis, amino acids, peptide bond,
automatic control, self-regulation, information theory, feedback, introduction to single-topic issue on automatic control	'solid phase' method of synthesis, polystyrene beads 1968 Mar. p. 56-74 [320]
1952 Sept. p. 44-47	automatic test systems, automatic control, microelectronics, measuring
electroencephalography, brain waves, alpha rhythms, medical	instruments, control systems 1977 Sept. p. 180–190 [381]
diagnosis, Fourier analysis, toposcope display 1954 June p. 54-63 Turing machine, von Neumann machine, brain circuitry, computer	automation, see: automatic control automobile, railway, traffic patterns, cities, commutation, mass transit,
design 1955 Apr. p. 58–67	transportation, Bay Area Rapid Transit system as model for urban
feedback, computer science, von Neumann machine, Turing machine,	transportation 1965 Sept. p. 162–174 electric automobile, battery, air pollution, weight, cost, performance of
self-reproducing machine, 'artificial living plants' 1956 Oct. p. 118–126	electric automobile lectric auto
molecular replication, self-reproducing machine, computer technology,	progress in electrical propulsion 1966 Nov. p. 66
machine models of molecular assembly 1959 June p. 105–114 [74] biological sciences, mathematics, self-reproducing machine, nerve	electric for short hauls 1967 May p. 58 automobile design, technology history, automobile racing, Paris-Bordeaux
impulse, predation, Turing machine, mathematics in biology	race of 1895 1972 May p. 102–111
1964 Sept. p. 148–164	airbag, automotive safety, seat belts, crashworthiness tests
automatic cell sorting, blood cell analysis, computer analysis, lymphocytes, pattern recognition, automatic analysis of white cells	1973 Feb. p. 78–86 automobile emissions, air pollution, smog, ozone, urban transport, air
1970 Nov. p. 72-82	pollution control in Los Angeles 1964 Jan. p. 24-31 [618]
cell sorting, fluorescence-activated technique 1976 Mar. p. 108-117 automatic control, cybernetics, feedback, self-regulation, computer	automobile engines, high compression, 'knock', combustion chamber design, high-octane fuel, mechanical vs chemical solutions for
science, automata theory, mechanical, biological, social self-	premature combustion 1950 Feb. p. 16–19
regulation 1948 Nov. p. 14–19	Wankel engine, rotary engine, Tschudi engine 1969 Feb. p. 90-99
computer technology, digital computer, analogue computer, relay computers, binary arithmetic, logic, computer memory, control	Carnot cycle, Diesel engine, isothermal combustion, Diesel's 'rational' engine 1969 Aug. p. 108–117
systems, status of 'mathematical machines' 1949 Apr. p. 28-39	air pollution, rotary engine, Wankel engine, auto engineering
self-regulation, automata theory, information theory, feedback, introduction to single-topic issue on automatic control	1972 Aug. p. 14-23 external combustion engines, Stirling engine, engine efficiency
1952 Sept. p. 44–47	1973 Aug. p. 80–87
feedback, control loop, servomechanisms, flyball governor, positive	free-piston 1956 June p. 66
feedback, negative feedback, ecological system, nervous system, economic system, feedback concept 1952 Sept. p. 48-55	fuel economy 1975 Nov. p. 56 automobile fuel, ammonia, emission control 1967 Aug. p. 39
control systems, servomechanisms, actuators, frequency response,	automobile history, Airflow automobile, streamlining
pneumatic servomechanisms, hydraulic servomechanisms, control systems 1952 Sept. p. 56-64	1977 Aug. p. 98-106 [697] automobile propulsion, electric power generation, energy storage,
continuous processing, fluid dynamics, petroleum refinery, control	composite materials, materials technology, flywheels
panel, automatic chemical plant 1952 Sept. p. 82–96	1973 Dec. p. 17-23
machine tool, batch process, digital-to-analogue conversion, numerical instructions, automatic machine tool 1952 Sept. p. 101–114	automobile racing, automobile design, technology history, Paris-Bordeaux race of 1895 1972 May p. 102-111
computer, solid-state electronics, analog-to-digital conversion, digital	automobile transportation, air transport, technology assessment, science
computer, analogue computer, the universal machine 1952 Sept. p. 116-130	policy, air pollution, noise pollution, technology assessment institutions proposed 1970 Feb. p. 13-21 (332)
information theory, statistics, thermodynamics, noise, redundancy.	automobiles, wheel bounce, road building, highway engineering
digital storage media, analogue storage media, information compression, information 1952 Sept. p. 132-148	'corrugated' road surface, 'washboard' road surface
productivity, capital-output ratio, labor force, economic and social	1963 Jan. p. 128-136 energy conservation, engine efficiency, fuel consumption
impact of automatic control 1952 Sept. p. 150-160 manipulators, remote control, robot, feedback, industrial manipulators	1075 Inp. n. 24 44
1964 Oct n 88 06	automotive safety, airbag, automobile design, seat belts, crashworthiness
economics, technology, input-output analysis, labor force, IIS impact	model car 1957 Apr. p. 70
of technological change, 1947-1958, input-output tables 1966 Apr. p. 25-31 [629]	Clash-proof locks
computerized design, computer technology, control systems, computer	autonomic ners ous system, learning, heart rate, blood pressure, curare, electrocardiography, learning voluntary control of autonomic
graphics, uses of computer in technology 1966 Sept. p. 176~188	nervous system 1970 Jan. p. 30–39 [525]

Zen Buddhism, physiology of module	cendental meditation, your	
"" bityslology of menitari	on 1972 Feb p 84_90 (1242	axon, neurology, nerve conduction, Schwann
	1969 Apr. p 4	
autopilot, taught to stall		cube, physiology of neural transmission
autoradiography, DNA synthesis, bacterial	Chromocomo labalada	•
incorporation in DNA chain, relation of	of template and now show	
	1066 1 26 44 110	avoneme, ATP, cell motility, cilia, flagella, mi
rod cells, cone cells, visual cells, protein s	1966 Jan p 36-44 [1030	paramecium, sperm
in retinal cells	yittiesis, renewal mechanisms	axoplasm, axon, neurology, nerve conduction
autosensitivity, nervous disease, autoimmun	1970 Oct p 80-9:	potential, perfusion technique cell perfus
allergic mechanisms in nervous disease	e disease, multiple sclerosis,	
allergic reaction poison and dermatice of	1949 July p 16–19	,
allergic reaction, poison ivy, dermatitis, rh sclerosis, delayed hypersensitivity	neumatoid arthritis, multiple	Aztec civilization, chinampa, canals, drainage,
autosomes, chromosome, gano manage	1960 Арг р 129-137	agricultural system, highly productive far
autosomes, chromosome, gene mapping, gen anomalies	etic disease, chromosomal	
	1971 Apr p 104-113 [1220]	
autotrophs, origins of life, Miller-Urey exper	iment, high-energy radiation,	
necestropies, retilientation, photograph	esis 105/1 Avia a 44 En (49)	· · · · · · · · · · · · · · · · · · ·
coology, energy cycle, plomass, solar energ	y, food chain, element	R
additionality, lielefolfophs, the ecosphere	1958 Apr p 83-92	D
auxins, apical bud, leaf scission	1055 Nov 02 00 11161	B-cells, antibody molecule, antigens, immune s
agronomy, plant growth, oak, giberellin, fu	inction of plant growth	lymphocytes, T-cells
normone	1957 Apr n 125 124 [11]	antibodies, bursa, cell differentiation, humora
serotonin, LSD, comparative physiology, n	europhysiology,	immune system, lymphocytes, thymus
physiological function of serotonin	1957 Dec n 52 56	antibodies, cell membrane, histocomptability
plant growth, cytokinins, dormin, plant ho	rmones, giberellin	response immunoalobin lamely and
	1968 July n 75_81 [1111]	response, ımmunoglobin, lymphocytes, T-c
adaptation, trees, plant hormones, tree stru	cture, ax-head model.	B vitamin, biotin, ATP, function of little-known
mechanical design of trees	1975 Iuly - 02 102	b vitalini, blotti, ATF, function of little-known
avalanche, snow, loose-snow avalanche, slab a	avalanche	Rahbaga computer difference
	1954 Ian n 26_31	Babbage, computer, difference engine, analytical
avalanche control, snow, mountains, hoar fros	st, types, causes and	computer, life and work of Charles Babbage
prevention of slides	1966 Feb p 92_101	babies, operant conditioning, learning pets, how
avascular tumors, angiogenesis, cancer, tumor	inhibition tumor	hahoons human avalution social believe
vascularization, tumor angiogenesis facto	or (TAF)	baboons, human evolution, social behavior, comp social anthropology, Kung bushmen, sexual
	1976 May p 58-73 [1339]	society society
avian, see bird, birds		social behavior, comparative psychology, sexua
avian evolution, birds from dinosaurus	1973 Aug p 44	troops in their natural environment
avian reproduction, ring dove, breeding cycle,	sexual behavior, hormone	baby boom, U S census, urbanization, age-sex dis
tertilization	1964 Nov p 48–54 [488]	central city, suburbs, US census at 1960
calcium metabolism, eggshell thinning, polli	ition, chorinated	baby fat, obesity, pathological obesity
hydrocarbons, DDT, dieldrin, insecticide,	food chain, ecological	background radiation, environmental pollution, 101
effect of pesticides	1970 Apr p 72-78 [1174]	nuclear medicine, atomic bomb test, introduc
avian respiratory system, breathing, bird bones	, lung structure	tissue on ionizing radiation
	1971 Dec p 72-79 [1238]	backswimmer, surface tension, water-strider, whirli
aviation, stratosphere, flight at high altitude	1952 Feb p 20-23	springtail, aquatic insect, insects of the water s
'sound barrier', rocket engine	1953 Oct p 36-41	1978
heat barrier, supersonic flight, lift barrier	1953 Dec p 80-84	Bacon's cipher, binary code, Boolean algebra, comp
traffic control in U S	1962 Jan p 60	history, Jacquard loom, punched cards
aviation industry, aeronautics, supersonic flight,	, commercial aircraft,	bacteria, protein synthesis, genetic code, DNA, RN
aircraft design, sonic boom, technology and	d economics of supersonic	by bacterial DNA-RNA in vitro
transport	1964 June p 25–35	sexual reproduction, conjugation, recombinant D
aviation medicine, Bert, medical history, Paul Be		recombination, sexuality in bacteria 1956
medicine	1952 Jan p 66–72	gene transformation, drug resistance, streptomyci
break-off phenomenon	1957 June p 78	recombinant DNA, biochemistry of Avery, Mcl
manned space flight	1959 Mar p 61	experiment 199
aviators, Medieval and Byzantine claimants to ti		gene transduction, bacteriophage, recombinant Di
	1961 June p 90	transduction by phage infection 1958
AWACS: airborne warning and control system a		bacteriophage, conjugation gene recombination, re
AWACS, arms race, bombers, SALT, strategic w		mechanisms of heredity and infection in bacteria
expenditures, antiaircraft sytems	1973 Aug p 11-19 1951 May p 36	1961 flies epidemiology, maggot, dysentery, virology, di
awards, Einstein and Stalin prizes		thes epidenhology, maggot, dysentery, virology, dis
ax-head model, auxins, adaptation, trees, plant h	1975 July p 92–102	symbiosis, algal bloom, blue-green algae, simplest p
mechanical design of trees		to bacteria
axe-handles, hickory, fences, smoked ham, hicko botany, forest, natural history, shagbark hick	Long 1948 Sent n 40-43	drug resistance, mutation, DNA R-factor, antibiotic
axial-flow compressor, gas turbine, aircraft propu	deign centrifueal	resistance, multiple resistance
compressor, ducted fan, electric power gener	ration	ectoparasites, skin, fungi, lice, hair, human skin ecos
compressor, ducted ran, electric power gener	1953 Nov p 65–72	1969 Jan
axiom of choice, mathematics, set theory, non-Ca		proteolysis infection viral DNA, DNA sequence, re
paradox, Cantor, non-Euclidian geometry	1967 Dec p 104-116	bacterial recognition and rejection of exotic DNA
axiomatics, mathematics, Bourbaki, philosophy o	f science, science	1970 Jar
history, labors of the mathematical collective	sell-styled Bourbaki	chemical weapons biological weapons Vietnam war,
	1957 May p 66-33	gas, virus disease rickettsiae, tear gas herbicide, ch
axis of rotation, physics, crystal structure, polygor	rs polyhedra,	warfare 1970 Ma nitrogen cycle, nitrogen fixation blue green algae Ha
philosophy of science, topological limits of pl	hysics	biosphere nitrate legumes eutrophication

1953 Jan p 50-56

cell, axoplasm, membra sion, structure of axonal concentration gradients 1966 Mar p 74-82 [1 icrotubules, how cilia mc 1974 Oct p 44-52 [1] Schwann cell, membran sion, structure of axonal concentration gradients 1966 Mar p 74-82 [10 Mexican agriculture. m plots, Aztec empire 1964 July p 90-98 [6 ystem, lymphatic system, 1973 July p 52-60 [127 al immunity, T-cells, 1974 Nov p 58-72 [130 antigens, immune ells 1976 May p 30-39 [1338 B vitamin 1961 June p 139-140 engine, digital 1952 Apr p 66-72 to teach animals 1951 Dec p 26-29 [423] parative psychology, behavior, origin of 960 Sept p 76-87 [602] il behavior, baboon 1961 June p 62-71 [614] stribution, family size, 1961 July p 39-45 1973 Aug p 44 nizing radiation, tion to single-topic 1959 Sept p 74-83 igig beetle, ecology, surface Apr p 134-142 [1387] outer history, science 1972 Aug p 76-83 A, protein synthesis 1956 Mar p 42-46 NA, gene 6 July p 109–118 [50] n, pneumococcus, Leod and McCarty 56 Nov p 48-53 [18] VA, bacterial gene Nov p 38-43 [106] ecombinant DNA, June p 92-107 [89] ease vector 1965 July p 92-99 lants, resemblance 1966 June p 74-81 s, transferable drug 1967 Dec p 19-27 ystem p 108-115 [1132] striction enzymes p 88-102 [1167] arms race, CS iemical-biological y p 15-25 [ĭ176] her process. biosphere, nitrate legumes eutrophication 1970 Sept p 136-146 [1194]

blue-green algae, fossil cells, evolution, Gunflint cherts, origins of life, Precambrian rocks, prokary otic cells, oldest fossils	microorganisms PPLO, virus, electron microscopy, cytology, smallest free-living cells 1962 Mar p 117–126 [1005
antibiotic resistance, infectious disease, drug resistance, gene mutation,	antibiotic-resistant staphylococcus bacteriophage, genetic exchange, sexual reproduction 1960 May p 9. 1948 Nov p 46-5
plasmids, Rh factor, bacterial conjugation 1973 Apr p 18–27 [1269] bacterial motility, flagella, 'twiddling', rotation of flagella	virus disease, influenza virus, bacteriophage, poliomyelitis virus antigen-antibody reaction, immunity, infection, host-specificity,
1975 Aug p 36-44 cell membrane, halobacteria, photosynthesis, rhodopsin, salt-loving	viruses in infection and in the laboratory 1951 May p 43-5 virus disease, influenza virus poliomyelitis virus, bacteriophage,
bacteria 1976 June p 38–46 [1340]	antigen-antibody reaction, immunity, infection, host-specificity,
algae, legumes, nitrogen fixation, nitrogenase, genetic engineering,	viruses in infection and in the laboratory 1951 May p 43–5
Haber process, rhizobium, legumes, symbiosis, nitrogenase, biological nitrogen fixation 1977 Mar p 68–81	genetics, reproduction, tracer experiments, DNA, protein coat 1953 May p 36-3
biological nitrogen fixation 1977 Mar p 68-81 bioluminescence, fish, flashlight fishes, symbiosis	virus, life cycle, reproduction, provirus 1954 Mar p 34–3
1977 Mar p 106–114	virology, recombinant DNA, provirus, modified virus
barophilic bacteria, deep-sea environment, deep-sea microbes, Alvin	1955 Apr p 92–98 [24
submersible 1977 June p 42–52 [926]	bacteria, gene transduction recombinant DNA, bacterial gene transduction by phage infection 1958 Nov p 38-43 [106
in crystalline array 1955 Jan p 44 algae, photoelectric effect 1964 Mar p 59	bacterial-cell wall, lysozyme homeostasis, bacterial cytoplasm,
bacteria disrupted, synthesize proteins 1954 Oct p 49	protoplasts, flagella, dissection of bacteria by lysozyme
bacterial cell, cell wall, bacterial metabolism, penicillin, polysaccharides,	1960 June p 132–142
glycopeptides, membrane 1969 May p 92–98	bacteria, conjugation, gene recombination, recombinant DNA, mechanisms of heredity and infection in bacteria
bacterial-cell surface, glycocalyx, bacterial infection, infective specificity, how bacteria stick 1978 Jan p 86-95 [1379]	1961 June p 92–107 [89
bacterial-cell wall, lysozyme, homeostasis, bacterial cytoplasm,	DNA, gene mapping, chromosome, mapping genes by induced and
protoplasts bacteriophage, flagella, dissection of bacteria by	spontaneous mutations 1962 Jan p 70-84 [120
lysozyme 1960 June p 132–142	adenoviruses, virology, X-ray diffraction, poliomyelitis virus, polyoma virus herpes virus, influenza virus, vaccinia virus, tobacco mosaic
bacterial chromosome, autoradiography, DNA synthesis, labeled thymine, incorporation in DNA chain, relation of template and new	virus, structure of viruses 1963 Jan p 48–50
chain 1966 Jan p 36–44 [1030]	gene mapping, amber mutants, virus particles
bacterial conjugation, antibiotic resistance, bacteria, infectious disease,	1965 Feb p 70-78 [1004
drug resistance, gene mutation, plasmids, Rh factor	virus structure, polyhedra, virus shell, assembly of T4 subunits from core out 1966 Dec p 32-39 [1058
1973 Apr p 18–27 [1269] bacterial cytoplasm, bacterial-cell wall, lysozyme, homeostasis,	core out 1966 Dec p 32–39 [1058 virus structure, T4 virus, DNA, mutation, morphogenesis, test-tube
protoplasts, bacteriophage, flagella, dissection of bacteria by	reconstruction of viral components 1967 July p 60-74 [1079
lysozyme 1960 June p 132–142	receptor specificity, cell membrane, bacterial receptor sites, O antigen,
bacterial infection, antibiotics, aureomycin, virus disease, rickettsial	Salmonella 1969 Nov p 120–124 [1161 electrical attachment 1953 Aug p 44
disease, 'broad spectrum' antibiotic 1949 Apr p 18–23 blood proteins, gammaglobulin, antibodies, immunology, tissue grafts,	electrical attachment 1953 Aug p 44 one-molecule DNA virus 1958 July p 52
agammaglobulinemia, hereditary immunological deficiency	pılı 1967 Dec p 55
endotoxins, exotoxins, toxins, bacterial toxin, effects of endotoxins	bacteriophage structure, gene expression, latent viruses, provirus, virus action, coexisting viruses, viral genes in host chromosome
1964 Mar p 36-45 bacterial-cell surface, glycocalyx, infective specificity, how bacteria	1976 Dec p 102–113 [1347] badger, dog, horse cheetah, locomotion, deer, comparative anatomy,
stick 1978 Jan p 86-95 [1379]	running, how animals run 1960 May p 148-157
bacterial magnets, magnetic-field tropism observed in bacteria 1978 Mar p 72	Baffin Island, energy cycle, Eskimo, hunting societies, food chain, seal, power, ecosystem 1971 Sept p 104-115 [665]
bacterial metabolism, bacterial cell, cell wall, penicillin, polysaccharides,	bags under the eyes, J.A M A colloquy 1951 May p 38
glycopeptides, membrane 1969 May p 92–98 bacterial motility, bacteria, flagella, 'twiddling', rotation of flagella	baking, yeast, brewing, nboflavin synthesis, cryptococcal meningitis, fermentation, cell physiology, yeasts, useful and noxious
1975 Aug p 36-44 cell motility, chemotaxis, flagellar action, E.coli	balancing rock, capstones explained 1960 Feb p 136–144 1974 Mar p 46
1976 Apr p 40–47 [1337]	ball lightning, nuclear fusion, gas plasma, ionization, Kapitza theory, Hill theory 1963 Mar p. 106–116
bacterial resistance, antibiotics, infectious disease, toxicity, virus disease, status of new medical technology 1949 Aug p 26-35	theory 1963 Mar p 106-116 ballistic missile, see atomic weapons, ICBM, SLBM and the like
bacterial toxin, bacterial infection, endotoxins, exotoxins, toxins, effects	ballistics, shock waves, shadow photography, speed of sound, Mach
of endotoxins 1964 Mar p 36–45	cones, aerodynamics 1949 Nov p 14-19
tetanus, botulism paralysis, nerve impulse, inhibitory impulse synapse, motor neuron, Clostridium tetani, Clostridium botulinum	calone heat theory, science history, oven, Rumford heat as motion Benjamin Thomson, biography 1960 Oct p 158-168
1968 Apr p 69–77	balloon astronomy, Sun, ultraviolet radiation 1959 May p 52-59
plague bacillus Black Death respiration, electron transport,	spectrometry, Venus, infrared astronomy 1965 Jan p 28-37
mechanism of death by plague toxin 1969 Mar p 92-100 cholera, disease medical care, sanitation water supply, epidemiology	solar observatory 1957 Sept p 107 balsam, forestry, spruce, climax ecosystem birch, climax forest of
1971 Aug n 15–21	Northeast U.S. 1948 Nov. p. 20-23
bacterial transformation, gene transformation Diplococcus pneumoniae, extra-cellular activator of transformation competence	juvenile hormone, species specificity, DDT, third-generation
bacterial virus, see bacteriophage 1969 Dec p 38-44	pesticides 1967 July p. 13_17 (1078)
bacterology, caries dentistry, fluoridation new theory of tooth decay	Bambuti, Pygmies, Congo, social anthropology, symbyotic relationship of jungle Pygmies and pastoral-village peoples
1948 Oct p. 20–23	1963 Jan n 29 27 (415)
tuberculosis tubercle bacillus biology of the germ	bandwidth, carrier-wave modulation, coaxial cable communication
biological pest control agricultural pest insecticide, insect physiology,	technology, electromagnetic spectrum fiber optics radiowave.
virology, entomology living insecticides 1956 Aug n 96-104	Bantu language, Africa, Early Iron Age culture, language diffusion,
caries, dentistry tooth enamer causes of tooth decay	1077 4 406 444
mutation penicillin drug resistance 1957 Dec p 109-116 1961 Mar p 66-71	barber paradox, antinomy, paradox, mathematical logic, logic, undecidable questions Gödel's proof, Grelling's paradox,

٦.

battered child syndrome, children's injuries

Epimenides' paradox, Zeno's paradox, paradox and foundations of	hattan fuel cell electronic
logic 1962 Apr. p. 84_06	battery, fuel cell, electric power generation, energy transformation, energy
symbolic logic, Dodgson, mathematics, paradox 1972 July n. 38-46	contonies, direct conversion chemical to electric energy
barbiturates, hypnotics, tranquilizers, sedatives, anesthesia, pharmacology	
1958 Jan p 60-64	, , , , , , , , , , , , , , , , , , ,
Bardeen, Cooper, Schriever theory, see BCS theory	
barge transport, canals, technology history, transportation, in U S	automobile, electric automobile, air pollution, weight, cost,
1076 Lib 116 154	performance of electric automobile 1966 Oct. p. 34-40
harium clouds, plusma, color reduction, appeal to 1 July p. 116–124	" A T T T T T T T T T T T T T T T T T T
barium clouds, plasma, solar radiation, ionosphere, Larth magnetic field,	of averages to norm 1977 May p 119-126 [363]
geomagnetism, magnetosphere electric field artificial plasma clouds	BCS theory: Bardeen, Cooper, Schriever theory
from rockets 1968 Nov p 80-92	BCS theory, crystal structure, electrical properties of metals, intermetallic
barley, agronomy, salt-tolerant crops 1976 Aug p 44D	compounds, intercalated crystals, superconductors, layered
barracle, ATP, muscle contraction, calcium, bioluminescence, aequorin,	superconductors 1971 Nov p 22–33
calcium ions in muscle construction 1970 Apr. p. 84-93 [1175]	beaches, sand dune, sand bar, berm, ocean, surf, rip channels,
Barnard's star, a solar system 1969 June p 58	conservation of beaches 1960 Aug p 80–94 [845]
barometer, meteorology, radiosonde, rain gauge, anemometer,	bearing, friction, stick-slip friction, violin bow, lubrication, uses and
hygrometer, instrumentation of meteorology 1951 Dec p 64-70	prevention of friction 1956 May p 109-118
barophilic bacteria, bacteria, deep-sea environment, deep sea microbes,	friction, mechanical engineering lubrication, sliding, rolling
Alvin submersible 1977 June p 42–52 [926]	pressurized-contactless bearings 1966 Mar p 60-71
Barr body, sex differences, chromosome, genetic mosaic, cytology,	friction, gears, technology history, Leonardo, Codex Madrid I
Klinefelter's syndrome, Turner's syndrome, chromosomal anomalies,	1971 Feb p 100–110
sex differences in tissue cells 1963 July p 54-62 [161]	
barred galaxy, gravitational collapse, galactic evolution, spiral galaxies	
elliptical galaxies, evolution from taxonomy 1956 Sept p 100-108	
Baruch plan, arms race, USSR atomic bomb, Acheson-Lilienthal plan,	bedbugs, spiders, leeches, spermatozoon transfer, sponges, sexual
US negotiating position at termination of 'atomic monopoly'	reproduction, unorthodox methods of sperm transfer
1949 Nov p 11–13	1956 Nov p 121–132
baryons, high-energy physics, mesons, 'strong' force, 'eightfold way',	bee, animal navigation, crustacea, solar navigation 1954 Oct p 74-78
conservation laws, Regge trajectory, resonance 'particles', 'bootstrap'	bumblebee energetics, flower, symbiosis 1973 Apr p 96–102 [1270]
hypothesis 1964 Feb p 74–93 [296]	insect behavior, ants insect eye, animal navigation, polarized light
high-energy physics, hadrons leptons, mesons, quantum numbers,	1976 July p 106–115 [1342]
quark confinement, bag model, infrared-slavery model, string model	'dancing' communication 1962 Dec p 70
1976 Nov p 48–60	killer bees, reputation inflated 1976 Jan p 63
basal metabolism, Ama, diving, diving women, Korea, Japan, breathing,	bee dances, insect behavior, social insect, animal communication,
human physiology, adaptation 1967 May p 34-43	directional orientation, 'language of the bees'
hibernation, homeothermy, circadian rhythm feeding behavior,	1948 Aug p 18–21 [21]
circannual rhythm, hypothalamus, squirrels, dormice in hibernation	animal communication, more on the 'language of the bees'
1968 Mar p 110-118 [513]	1953 July p 60-64
basalt, Earth mantle, plastic zone, seismology, isostatic equilibrium,	insect behavior, social insect, evolution, evolutionary 'dialects' of
Mohorovicic discontinuity, plastic zone at depth between 37 and 155	'language of the bees' 1962 Aug p 78–86
miles 1962 July p 52–59	communication, honeybee, insect behavior, honeybee sound
base, protein structure, amino-acid sequence, gene-protein colinearity,	communication 1964 Apr p 116–124 [181]
DNA structure, mutation, gene mapping 1967 May p 80-94 [10/4]	insect behavior, directional orientation, species specificity, evolution,
base triplets. DNA, genetic code, protein synthesis, nucleotide sequence,	communication by sound, by dancing 1967 Apr p 96-104 [1071]
codon, base triplet established as codon 1962 Oct p 66-74 [123]	insect behavior, pheromones, sex attractants, courtship display
baseball, properties of 'perfect curve' 1959 May p 71	1972 Sept p 52–60 [1280]
outfielder's trigonometry 1969 Jan p 49	Frisch work dazzles Thorpe 1949 Sept p 30
computer simulation 1974 Oct p 63	swarming warble 1955 Apr p 54
knucklehall dynamics 1976 Jan p 63	communication 1970 Oct p 60
base cello viola violin Chladni patterns, music, musical instruments,	beef, tenderizing process 1951 May p 32
physics of violing 1904 NOV p 10-33	beer, enzymes, yeast, brewing, fermentation, hops, chemistry and
bassoon, musical instruments, vibrating air column, clarinet, oboe, flute,	microbiology of brewing 1959 June p 90–100
Emplish horn coverhone physics of the WOOD WINGS	heavy water in brewing process 1956 Aug p 54
1960 Oct p 144-134	beetle, cattle, coprid beetles, dung beetles 1974 Apr p 100-109
bet somer somer enemal payingation ultrasonic signal, bat navigation	insect behavior, burying beetles, beetle reproduction
demonstrated in laboratory 1950 Aug p 52-55	1976 Aug p 84–89 [1344]
data and decomposition hate congreeche-sounding, sensory	behavior, speech, facial expression, vocal display, nonverbal
percention supersonic sonar of bats 1936 July p 40-49 [1124]	communication, facial expression in communication
betch process, automatic control machine tool, digital-to analogue	1965 Oct p 88–94 [627]
mumorical instructions amoniant macinic too.	self esteem, child development, personality 1968 Feb p 96–106 [511]
1952 Sept p 101–114	value judgments, pleasure 1968 Dec p 84-90 [518] encephalitis, hyperactive child, temperament, genetic disease,
bathtub vortex, see Corrolis effect	amphetamines, possibly innate disease syndrome
and the second of the second s	1970 Apr p 94–98 [527]
	aplysia, neurones, learning, memory, synapse, heterosynaptic
A second or control telemetry. Heleolology, Itoliticast	facilitation, memory and learning at nerve cell level
	1970 July p 57–70 [1182]
07 22	see also insect behavior, fighting behavior and the like, behavioral
bathyscaph, ocean floor, submarine 'blimp' 1958 Apr p 27–33	adaptation, courtship display, etc
1957 1.00 P 100 P	t the story biochemistry, cholinesterase correlation 1955 Feb p 58
auditory discrimination, bat sonar, sonar, ecno-sounding, sensor)	behavior disorders, learning stress, animal behavior, stimulation in
sonar predator-prev relationship, moths, auditory perception,	behavior modification, ethical questions 1957 Jan p 58
	19/4 May n 60
ultrasound, moth sonar detection of bat unitasound 1965 Apr p 94–102 [1009] 1972 Oct p 47	bobas joral adaptation, termite, social insect, cen analogy, insect behavior
ottered child syndrome, children's injuries	1953 May p 74-78

homeothermy, clothing, clothing and body-temperature control 1956 Feb p 109-116	Alaska, stone artifacts, gateway to America 1968 June p 24–33
birds, geographical distribution, speciation, ornithology, bird	Berlese funnel, cryptozoa, natural history, ecological niche, cryptosphere,
migration, adaptation, provinciality of birds 1957 July p 118–128	animal behavior, life under rocks and rotting logs
birds, camouflage, caterpillars, mimicry, defense by color	1968 July p 108–114 [1112]
1957 Oct p 48–34	berm, beaches, sand dune, sand bar, ocean, surf. np channels,
penguin, sexual behavior, Antarctica, natural history	conservation of beaches 1960 Aug p 80–94 [845] Bert, aviation medicine, medical history, Paul Bert, 'father' of aviation
1957 Dec p 44–51	medicine 1952 Jan p 66–72
'cold-blooded' animals, pigmentation, thermoregulation, lizard, reptile, behavioral thermoregulation 1959 Apr. p 105–120	berylliosis, occupational health, phosphorus, fluorescent light, chelation,
behavioral thermoregulation 1959 Apr. p 103–120 sand dune ecology, thermoregulation, succulent plants, symbiosis,	high technology disease 1958 Aug p 27–33
adaptation, adaptive mechanism for life in hot acid environment	Manhattan Project casualty 1951 Jan p 27
1959 July p 91–99	beta chain, collagen, proteins, alpha helix, polypeptide synthesis,
ground squirrels, Mojave desert, animal behavior, kidney function,	polymers, amino acids, synthesis and architecture of proteins
thermoregulation, desert adaptation, desert mammals' adaptations	1957 Sept p 173-184 [7] beta decay, neutrino, elementary particles, neutron decay, alpha decay,
to heat and aridity 1961 Nov p 107-116	setting trap for detection of theoretical particle 1956 Jan p 58–68
alkaloids, butterfly, larvae, symbiosis, insect repellants, plant evolution, mimicry, butterfly-plant association 1967 June p 104-113 [1076]	neutrino, particle accelerator, muon neutrino, a particle interaction,
mouse, water retention, physiological adaptation, Mus musculus,	'weak' force, experiment demonstrating existence of muon neutrino
commensal of man 1969 Oct p 103-110 [1159]	1963 Mar p 60–70 [324]
Australia ecology, insect behavior, sand wasps, solitary insects,	alpha decay, transuranium elements, isotopes, nuclear stability,
Bembix 1975 Dec p 108–115	radioactive decay, 'synthetic' elements, periodic table, the 'superheavy' elements beyond 103 1969 Apr p 56-67
animal communication, firefly, bioluminescence, insect behavior, synchronous flashing of fireflies 1976 May p 74-85	'superheavy' elements beyond 103 1969 Apr p 56-67 bubble chamber experiments, high-energy physics, hadrons, neutrino
synchronous flashing of fireflies 1976 May p 74-85 behavioral genetics, cricket song, insect behavior, nervous system	beam, particle accelerator, positron 1973 Aug p 30–38
1974 Aug p 34-44 [1302]	antimatter, bias for positive 1966 Aug p 40
behavioral psychology, Pavlov, conditioned behavior, biography and	Betelgeuse, giant star, photographic close up 1975 Feb p 42
appraisal of I P Pavlov 1949 Sept p 44-47	Bevatron: billion electron volt proton synchrotron
color vision, learning, conditioned behavior, Skinner box, visual	Bevatron, particle accelerator, cosmotron, high-energy physics,
discrimination, pigeons conditioned to respond to discrete wavelengths of light 1958 Jan p 77-82 [403]	technology of high-energy physics moves into the Giga (billion) volt range 1951 Feb p 20-25
wavelengths of light 1958 Jan p 77-82 [403] emotional deprivation, maternal deprivation, rhesus monkeys,	antiproton, positron, proton, antimatter, high-energy physics,
surrogate mother, infant monkey 'love' 1959 June p 68–74 [429]	postulation and discovery of antiproton 1956 June p 37-41 [244]
learning, visual perception, Fechner's law, psychophysics, Skinner box,	antimatter, high energy physics, antiproton, antineutron, cosmology,
conditioned behavior, pigeon perception 1961 July p 113-122 [458]	'universon', 'cosmon', 'anticosmon' 1958 Apr p 34-39
conditioned behavior, learning, kinesthetic memory, place-learning	5 Bev 1954 May p 52
1963 Oct p 116–122 [479] asocial behavior, criminal law, human behavior, punishment,	Bible, science teaching, evolution, religion, curriculum reform, Darwinism, creationism, high school, Man, a Course of Study,
criminology, milieu therapy, behavioral science and the criminal law	biological sciences curriculum study 1976 Apr p 33–39
1963 Nov p 39-45 [480]	Biblical archeology, Jericho, Neolithic archeology, 'world's oldest city'
child psychiatry, autism, emotional illness, schizophrenia	1954 Apr p 76–82
1967 Mar p 78–86 [505]	Elamite culture, ziggurat, religion, Tower of Babel, 1000 B C, Iran
Skinner's utopia 1957 Jan p 58 conditioned behavior, effect of reinforcement on learning	1961 Jan p 68-76 Jerusalem, Palestine, city of Jebusites David, Herod
1958 Dec p 58	1965 July p 84-91
behavioral regression, child development, cognitive development, human	Mount Ararat, Urartu, Altintepe, 800 B C culture at Noah's landing-
behavf '3_47 [572]	place 1967 Mar p 38-46
Beilby laye	Arabia, irrigation, trade, Near East, frankincense, myrrh, cultures of
hypothesis 1968 June p 91-99 ferrograph analysis, friction, lubrication, machine wear, metal fatigue,	southern Arabia 1969 Dec p 36-46 [653] Dead Sea scrolls, Judaism, New Covenanters, Qumran site
particles of wear, wear 1974 May p 88–97	1971 Nov p 72–81
bell shrike, animal communication bird song bird duets	Jericho, oldest city 1956 Nov p 68
1973 Aug p 70–79 [1279]	Jericho, from cave to village 1957 Sept p 116
bellows, science history, technological innovation, windmills, pumps, blast furnace, medieval technology, medieval uses of the air	bibliography of the atom, atom, UN Atomic Energy Commission
1970 Aug p 92–100 [336]	1948 Oct p 25 bicycle technology, technology history, economic development
Bence-Jones proteins, amino-acid sequence, antibodies, antibody	1973 Mar p 81–91
molecule, immunoglobin heavy chain, light chain, antigen-antibody	stability, steering geometry 1970 May p 58
complex 1967 Oct p 81-90 [1083] antibody molecule myeloma immunoglobin, antigen binding amino-	17-pound plastic bike 1973 May p 43
acid sequence antibody amino-acid sequence determination	'big bang' theory, cosmology, universe evolution, universe, space curvature, according to Gamow 1956 Sept p. 136-154
1970 Aug p 34-42 [1185]	curvature, according to Gamow 1956 Sept p 136-154 cosmology, universe expansion cosmic background radiation, low-
Benford's Law, probability, digits number theory, first-digit distribution	energy radiowaves, isotropy, primeval fireball, helium abundance
1969 Dec p 109–120	'big bang' theory and cosmic background radiation
Bentley's compound, analgesics morphine, opium, poppy, heroin, codeine, drug action, search for strong safe analgesic	1967 June p 28–37
1966 Nov. p. 131-136 [304]	deuterium-hydrogen ratio, deuterium synthesis, cosmology, heavy hydrogen, interstellar matter 1974 May p. 108-118
benzene, carbon chemistry, chemical accelerators origins of life, high-	cosmic background radiation evolutionary universe, universe
energy carbon reactions 1975 Jap n 77-79	expansion radio galaxies 1974 Aug p. 26, 23
benzene denvatives, aromatic hydrocarbons molecular structure,	cosmology, closed universe, open universe, universe expansion
Bering land bridge, New World archeology, MacKenzie river, human	deuterium abundance age of elements average density
migration 'How man came to North America' 1951 Ian p. 11–15	1976 Mar p 62-79 cosmic background radiation ether drift, Hubble constant, anisotropy
plant migration occanography. New World archeology animal	in 3-degree Kelvin radiation 1978 May p. 64-74 (2000)
migration, continental shelf, glaciation Wisconsin glaciation, animal plant migration. Asia-North America 1962 Jan p 112–123	quasar recession velocities, primordial radiation detected
1 1902 Jan p 112-123	1965 July p 44
	cosmic background radiation 1966 May p 54

see also primordial fire ball, cosmic background radiation Big Thompson disaster, cloudburst and flash flood 1977 Apr p 60 bilinteral symmetry, left-right asymmetry, mirror images, central nervous system 1971 Mar p 96–104 [535]	adrenal cland, nineal organ, acteorant, processing p. 132–142
learning 1968 Mar n 78-86	malaria, Plasmodium, parasitism, reproduction, gametocyte, mosquitoes 1970 line n. 122-131 t1811
visual perception, dyslexia, eye movement, grammatical relations, language, reading, perception of words 1972 July p 84-91 [545]	animal behavior, circadian rhythm, circannual rhythm, hibernation, animal migration, manie depression 1971 Apr. p. 72-79 [1719]
billion electron volt proton synchrotron, see Bevatron bin-packing, scheduling, combinatorial analysis, algorithms, critical path scheduling, mathematization of efficiency	circadian rhythm, house sparrow, photoperiodicity, pineal organ, nonvisual light receptors 1972 Mar p 22-29 [1243]
1978 Mar. p 124-132 [3001] binary arithmetic, computer technology, digital computer, analogue computer, relay computers, logic, automatic control, computer	horning behavior, bird navigation 1974 Dec p 96-107 [1311] crabs, diatoms, marine algae, sand hoppers, tidal-zone organisms, tidal rhythms, integration of biological and sidereal cycles 1975 Feb p 70-79 [1316]
memory, control systems, status of 'mathematical machines' 1949 Apr. p. 28-39	artificial light, sunlight, suntanning, vitamin D, body's response to light 1975 July p 68-77 [1325]
number theory, magic squares, prime number, composite numbers 1951 July p 52-55	circadian rhythm, diapause, dormancy, insect behavior, insect metabolism photoperiodicity 1976 Feb p 114-121 [1335]
computer technology, information theory, computer industry, computer privacy, computer applications, introduction to single- topic issue on information processing 1966 Sept. p. 64-73	fiddler crabs 1955 Oct p 46 unicorn's lunar rhythm 1957 July p 68
computer technology, integrated circuits, switching elements, logic	temporal relations, time perception, temperature time interrelation, kappa movement effect 1964 Nov. p. 116, 124
circuits, computer memory, microelectronics, hardware of computer 1966 Sept. p. 74–85	enzyme oscillations 1967 Oct p 50 see also circadian rhythm
communication technology, pulse-code modulation, digital transmission, television, transmission quality, telephone, AM, FM	biological energy, energy, power machines, mechanical energy, economic development, power, introduction to a single-topic issue on energy
1968 Mar. p. 102–108 computer technology, maximum computer speed 1968 Oct. p. 93–100	and power 1971 Sept p 36-49 [661] biological form, regeneration, cell differentiation, cellular polarity,
Boolean logic, integrated circuits, large-scale integrated circuits, logic elements, microelectronics 1977 Sept. p. 82–106 [376]	embryonic development, Hydra, morphogenesis, morphogens 1974 Dec p 44-54 [1309]
binary code, Bacon's cipher, Boolean algebra, computer history, science history, Jacquard loom, punched cards 1972 Aug p 76-83	biological nitrogen fixation, nitrogen, ammonia, nitrifiers denitrifiers nitrogen cycle, legumes 1953 Mar p 38-42
binary numbers, chimpanzee, symbolic language, learning, operant conditioning, animal behavior, chimpanzee learning arithmatic	ammonia manufacture, Haber process, metallo-organic process, nitrogen fixation 1974 Oct p 64-70 biological oxygen demand, water pollution, sewage treatment, radioactive
1964 May p 98~106 [484] names for 'thinking binary' 1958 Nov p 62	waste disposal, stream pollution 1952 Mar p 17-21 biological pest control, bacteriology, agricultural pest, insecticide, insect
binary search trees, algorithms, computer language, computer programming, hash table 1977 Apr p 63-80	physiology, virology, entomology, living insecticides 1956 Aug p 96-104
binary stars, solar system, stellar evolution 1949 Oct p 42-45 dust cloud hypothesis, photophoresis, gravitational collapse, element	screw worm fly, X-ray, sterilization, pest control, cattle, eradication of the screw worm fly
abundance, angular momentum, origin of the Earth 1952 Oct p 53-61 [833]	gypsy moth, pheromones, olfactory receptors, sex attractants, silk moth, chemotaxis communication 1974 July p 28-35 [1299]
dwarf stars, degenerate gas, gravitational collapse, white dwarfs, 'dying' stars 1959 Jan p 46-53	biological sciences, mathematics, self-reproducing machine, nerve impulse, predation, Turing machine, automata theory, mathematics
extraterrestrial life, stellar evolution, main-sequence stars, probability of extra terrestrial life calculated from astronomical numbers 1960 Apr p 55-63	in biology 1964 Sept p 148-164 international program 1967 May p 55
stellar evolution, tidal effects, gravitation effects, contact binaries,	biological warfare, US military enterprise 1949 Apr p 26 bacterial toxin 1970 Apr p 44
neutron stars, black hole, pulsar, quasars, X-ray astronomy, X-ray	'biological' water, 'anomalous' water, blood, hemoglobin, water, membrane permeability, osmosis, erythrocyte van 't Hoff law
black hole, Cygnus X-1, black hole search dense stars, supernovae, X-ray binary stars 1975 Mar p 24-35	1971 Feb p 88-96 [1213] biological wax, copeped lipids, coral reef wax, marine wax, metabolic
black hole, galactic energetics, globular cluster stars, neutron stars, stellar evolution, X-ray stars, astronomy satellites, 'bursters'	fuel, food chain 1975 Mar p 76-86 [1318] biological weapons, bacteria, chemical weapons, Vietnam war, arms race,
1977 Oct p 42-33 (363) 1952 Aug p 36	CS gas, virus disease, rickettsiae, tear gas, herbicide, chemical- biological warfare 1970 May p 15-25 [1176]
Bingham plan, medical care, community hospital, medical center, general	biology, evolution, philosophy of science, natural selection, creativity, innovation in biology 1958 Sept p 100~113 [48] biology research ship, Amazon expedition 1967 Mar p 50
medical technology	bioluminescence, glow worm, firefly, abyssal fish, luciferase, 'cold light' 1948 May p 46-49
conditioning, developmental psychology, into hadon processing space, size, shape perception in human infants	abyssal life, ocean abyss, marine biology, fauna at 4000 meters 1957 Nov p 50-57 photosynthesis, chlorophyll, carotene, retinene, vision, photobiology,
depth perception, eye, neurophysiology, optic chiasm, stereopsis, visual 1972 Aug p 84-95 [1255] cortex random dot stereograms, stereogram experiments, vision, visual 1976 Mar p 80-86 [569]	phototropism, sunlight, life and light 1959 Oct p 92-108 electric fishes, sodium ion potential, electroplaques, neurophysiology, synapse, acetylcholine, animal behavior, nerve impulse
biochemistry, enzymes, virus, citric-acid cycle, metabolism, co-enzymes,	membrane potential, plant cell, calcium pump, ion potential, electricity
sulfa drugs, antibiotics, science, of state 1950 Sept p 62-68 hipelectricity, animal behavior, physiological psychology, electrically	firefly, insect behavior, insect physiology, luciferin, luciferase, chemotaxis, biochemistry of bioluminescence
controlled behavior biofeedback, see autonomic nervous sytem biological clock, sleep, body temperature, waking 1952 Nov p 34-38 [431]	electric fishes, electric field, animal navigation 1963 Mar p 50-59 ATP, muscle contraction, calcium barnacle, aequorin, calcium ions in
fiddler crab, circadian rhythm	muscle construction 1970 Apr p 84-93 [1175]

fiddler crab, circadian rhythm

fish, fish-scale crystals, tapetum lucidum, optics under water,	bird navigation, spatial orientation, animal navigation, celestial
camouflage 19/1 Jan p 64-72 [1209]	navigation by birds 1958 Aug p 42-47 [133] bird navigation, blackpoll warbler, celestial navigation, indigo bunting,
animal communication, behavioral adaptation, firefly, insect behavior,	planetarium experiments 1975 Aug p 102–111 [1327]
synchronous flashing of fireflies 1976 May p 74-85	bird navigation, bird migration, homing behavior 1948 Dec p 18–25
bacteria, fish, flashlight fishes, symbiosis 1977 Mar p 106-114 biomass, ecology, energy cycle, solar energy, food chain, element	guacharos, sonar, 'oil birds' 1954 Mar p 78–83
abundance, autotrophs, heterotrophs, the ecosphere	spatial orientation, animal navigation, bird migration, celestial
1958 Apr p 83–92	navigation by birds 1958 Aug p 42-47 [133]
carbon dioxide 'window', atmosphere, climate, ocean sediments,	homing behavior, biological clock 1974 Dec p 96–107 [1311]
humus, 'greenhouse effect', threat of 'greenhouse effect'	bird migration, blackpoll warbler, celestial navigation, indigo bunting,
1978 Jan p 34–43 [1376]	planetarium experiments 1975 Aug p 102–111 [1327]
biorhythm, see circannual rhythm, circadian rhythm, biological clock	bird nervous system, animal behavior, learning, cerebral cortex, striatum, crows, pigeons, canaries, chickens 1968 June p 64–76 [515]
biosphere, Earth, evolution, photosynthesis, environment, atmosphere-	crows, pigeons, canaries, chickens 1968 June p 64–76 [515] bird song, animal communication, learning, innate behavior, animal
hydrosphere cycles, introduction to single-topic issue on biosphere 1970 Sept p 44-53 [1188]	behavior 1956 Oct p 128–138 [145]
wind, solar radiation, energy cycle, albedo, atmospheric circulation,	communication, songbirds, syrinx, mechanism of sound production
climate, ocean circulation, terrestrial radiation, carbon dioxide	1969 Nov p 126-139 [1162]
'window'. Farth energy cycle 1970 Sept p 54-63 [1189]	animal communication, bell shrike, bird duets
solar radiation, photosynthesis, agricultural ecosystem, climax	1973 Aug p 70–79 [1279]
ecosystem, energy cycle, ecosystem, food chain, respiration,	correlated with behavior 1955 Sept p 80 birds, geographical distribution, speciation, ornithology, behavioral
biosphere energy cycle 1970 Sept p 64–74 [1190]	adaptation, bird migration, adaptation, provinciality of birds
water cycle, transpiration, evaporation, runoff, agricultural system, ocean, precipitation, photosynthesis 1970 Sept p 98-108 [1191]	1957 July p 118–128
chloroplast, oxygen cycle, photosynthesis, aerobic metabolism, ozone,	camouflage, caterpillars, mimicry, behavioral adaptation, defense by
oxidation-reduction reactions, geological record, oxygen-carbon	color 1957 Oct p 48–54
balance 1970 Sept p 110-123 [1192]	finches, mimicry, parasitism, sexual behavior, widow birds, animal
calcium carbonate, carbon cycle, sedimentary rock, photosynthesis,	behavior 1974 Oct p 92–98
fossil fuel combustion, atmosphere, carbon dioxide	dinosaurs, ectothermy, endothermy, metabolism, birds descended from
1970 Sept p 125-132 [1193] bacteria, nitrogen cycle, nitrogen fixation, blue-green algae, Haber	dinosaurs 1975 Apr p 58-78 [916] Birmingham, high-energy physics, Manchester, report on visit by Leopold
process, nitrate, legumes, eutrophication	Infeld 1949 Nov p 40–43
1970 Sept p 136–146 [1194]	birth control, male fertility, spermatozoon count, ovulation timing
ATP, mineral cycles, phosphorus cycle, sulfur cycle, sulfur bacteria,	1950 May p 16-19
carboxylation cycle, eutrophication, mineral cycles in the biosphere	contraception, reproduction, ovulation, nidation, fertilization
1970 Sept p 148–158 [1195]	1954 Apr p 31–34
human population, food production, fertilizers, pollution, irrigation, agricultural revolution, soil erosion, biosphere capacity to produce	population growth, Malthusian doctrine, developing countries, food production, Julian Huxley on world population growth
food 1970 Sept p 160–170 [1196]	1956 Mar p 64–76 [616]
energy demand, thermal pollution, Industrial Revolution, energy	birth rate, family planning, family size, contraception, US population
technology, fossil fuel cycle, carbon dioxide, industrial emissions,	trends, acceptance of contraception 1959 Apr p 50-55
modification of natural cycles by man 1970 Sept p 174-190 [1197]	family planning, population growth, economic development,
recycling, material resources, nonrenewable resources, inorganic-	promotion of birth control in Taiwan 1964 May p 29–37 [621]
materials cycle 1970 Sept p 194–208 [1198] energy cycle, photosynthesis, respiration, power, radiation energy, solar	abortion, infant mortality, maternal mortality, public opinion, legal status, incidence in U S and other countries
radiation, terrestrial radiation 1971 Sept p 88–100 [664]	1969 Jan p 21–27 [1129]
continental drift, marine biology, ocean evolution, Pangaea, plate	human population, India, infant mortality, family planning, medical
tectonics 1974 Apr p 80–89 [912]	care, experience in an Indian village 1970 July p 106-114 [1184]
MIT study of critical environmental problems 1970 Sept p 78	celibacy, disease, foundling institutions, infanticide, Malthusian
biotin, B vitamin, ATP, function of little known B vitamin 1961 June p 139–146	doctrine, marnage age, population growth, population control in Europe 1750-1850 1972 Feb p 92-99 [674]
bipedal walking, human evolution, lumbar vertebrae, pelvis, lower-back	Europe 1750-1850 1972 Feb p 92-99 [674] abortion, contraception, family planning, population control, public
pain, 'scars of human evolution' 1951 Dec p 54-57 [632]	policy in U S 1973 July p 17–23
locomotion, walking, primates, human evolution, muscle, bone, fossil	reproductive physiology, sex hormones, human population
record, origin of human walking 1967 Apr p 56-66 [1070] birch, forestry, spruce, climax ecosystem, balsam, climax forest of	1974 Sept p 52–62
Northeast U S 1948 Nov p 20–23	developed countries, demographic transition, human population, zero population growth 1974 Sept p 108-120
bird bones, avian respiratory system, breathing, lung structure	abortion, population, public health, infant mortality, maternal
1971 Dec p 72-79 [1238]	mortality, international comparison of experience with legalization
bird flight, aerodynamics, airfoil, soaring, thermal cells	of abortion 1977 Jan p 21-27 [1348]
1952 Apr p 24-29 aerodynamics, weight-strength ratio, bone structure, respiratory air	intrauterine device 1964 Jan p 54 family planning, US public health 1965 July p 46
sacs, birds as flying machines 1955 Mar p 88–96	family planning, U S public health 1965 July p 46 Japan population growth 1971 July p 43
soaring, wind velocity, thermal cells, air currents, aerodynamics,	population growth assessed 1971 Oct p 40
ormthology, flight of soaring birds 1962 Apr p 130–140	family planning in the People's Republic 1972 Nov p 50
metabolism, energy output, wind tunnel experiments, gull, budgengar	in U S S R. 1973 Jan p 46
1969 May p 70-78 [1141] albatross, evolution, animal behavior, sexual behavior, soaring, natural	birthrate decline in U S 1973 Feb p 46
history 1970 Nov p. 84_93 (1204)	demographic transition, in China 1973 Nov p 49 ethics 1974 Sept. p. 64
gliding birds, soaring vultures, thermal cells, lift phenomena	industrial societies approach zero population growth 1978 May p. 81
1973 Dec p 102–109	see also family planning contraception
aerodynamics, animal behavior, insect flight, clap-fling mechanism, flip mechanism, hovering flight, lift generation	birth rate, birth control, family planning, family size, contraception, 11.5
1975 No. p. 20 27 (1221)	population trends, acceptance of contraception 1959 Apr p 50_55
10r 1948 Dec p 18–25	abortion, population, marriage rate, death rate, vital statistics, menarche, infant mortality, 1538-1812, parish registers York,
b ornithology behavioral	England 1970 Jan p 105-112
adaptation, adaptation, provinciality of birds 1957 July p 118-128	1210 Juli p 103-112

demographic transition, population growth, world population prowth, grass reproduction rate, net reprodu	ition, jero uction tale.	reience history, technological innovation, win modies al technology, modies al lives of the c	dmills pumps bellows
extraporation from world statistics population model		•	nt 1970 Auz p 92-100[336]
death rate, demographic transition, hum in population, pe	b 12 33 lead	blast waves, atomic bomb, property damage	1953 Apr p 94-102
growth history 1974 c	Some in 20 51	blastocyst, mito is 0,0m fertilization, embryon	ic development massa
mortality fates, population explosion, developing countrie	es hum in	human embrso in the laboratory blastilla, cell differentiation, embryonic desclope	1970 Dec p 44-54 [12]
population 1974 Ser	pt p 145 159	fertilization ectiviterm, mesoderm endoderi	m, embryological
n trafist policy in USSR 16 US population 19	752 Oct p 41	'org mizer', science history, review of classic	al embryology
4) 4.	65 June p 56 165 Apr p 49	Wigh Bounts beautions were an accounted	1957 Nov p 79-88[107]
U.S., zero popul thon growth 19	71 Apr p 50	Bligh, Bounty, bre idfruit, mutiny on a scientific	1953 Mar p 88-94
contraception, U.S portion to the birth trauma, brain damage, cerebral palss, asphysia, monke	972 Okt ji 46 . N	blight, antibiotics, plant disease, rot, smut, wilt di	
experiments, implications for hum in infants		blind landing, aircraft landing, automatic pilot, ai	
blean Pales Indian funting Object 1 to 1969 Oct p	76 54 [1158]	landing system precision approach radar, gr	ound-controlled
bison, Paleo-Indians, hunting, Olsen-Chubbuck site, New Wearcheology, reconstruction of bison hunt, kill, butcherin	oria .e	approach blindness, premature infants, retrolental fibroplas	1964 Mar p 25-3)
1967	Jan p 41-52	oxygen infant mortality, 'blind babies'	1955 Dec p 45-43
bites by humans, no fatalities 19	51 Jan p 30	vision, glaucoma, indectoms, human eye	1959 Aug p 110-117
Bitter solenoid, magnetic field, magnetism, superconductors National Magnet Laboratory 1965 A		neonat il disorder, medical ethics, premature in	
	Npr. p. 66-78 pr. p. 96-105	researches, retrolental fibroplasia, 'blind babi 1977	June p 100-107 [1361]
BL Lacertae objects, galaxies, quasars, radio astronomy	•	type made tactile for 'reading'	1974 Jan p 🦭
1977 Aug p	32-39 [372]	phospheres, 'sight' for blind	1974 Mar p 45
black both, quantum mechanics, Planck, science history, spec- resonators, Einstein, photoelectric effect. Compton effect	troscopy,	block fault, geology, tectonic processes, mathematic	1961 Feb p 96-106
jumps 1952 Mar p		geosynchine, experimental geology 'block portraits', visual perception, information the	eors, computer
black body radiation, heat, thermodynamics, quantum mechan	nics,	graphics, computer enhancement, pattern reco	Constitut recognition of
entropy, equation of state, energy, temperature, What is to see		Litres	(7/3 (10) 8
Black Death, epidemiology, human behavior, bubonic plague,	ept p 58–63 . public	blood, comparative physiology, ice fish, oxygen, he fish without red cells or hemoglobin	1803 MON D 100
health, population lustory, long-term effects of plague, F		'anomalous' water, 'biological' water, hemoglobi	n, water, membrane
50 1964 Feb p 11		managabiliti memaga am theomata 100 't HOII	[law 1 Feb p 88-96 [1213]
bacterial toxin, plague bacillus, respiration, electron transpo mechanism of death by plague toxin 1969 Ma	ort. ir. p. 92–100	see also frozen blood cells	
black hole, gravity, stellar evolution, space-time continuum, gr		blood banks, blood plasma, blood fractionation, ery	throcyte, leukocyte,
collapse, thermal pressure, singularity, gravitational radiu		platelets centrifuge, blood transfusion	1954 Feb p 5. 02
gravitational waves, neutron stars, pulsar, relativity theory, l		blood-brain barrier, epilepsy, brain metabolism, neu neurophysiology, physiology of the barrier and	its reinforcement 1956 Feb p 101-106
binary stars, neutron stars, pulsar, quasars, X-ray astronomy	ay p 38–46 y, X-ray ily p 26–37	blood cell analysis, automatic cell sorting computer lymphocytes, pattern recognition, automatic an	analysis.
sources 1972 Ju gravitational energy, pulsar, quasars, rotational energy, radio			1970 NOV P 12 02
universe 1973 Feb	р 98-105	blood circulation, Harvey, science history, life and w	ork of William 1952 June p 56-62
binary stars, Cygnus X-1, black hole search 1974 De interstellar gas, magnetohydrodynamics, neutron stars, pulsa	ec p 32–43 ar. stellar	Harvey capillary bed, mesentery, arteriole, venule, cardiov	accular system
evolution, supernovae, X-ray sources 1975 De	ec p 38-46		1959 Jan p 34-00
cosmic radiation, gamma-ray astronomy, neutron stars, pulsa	p 66-79A	exercise adaptation, breathing, heart, hemoglobin, 1965	May p 88-90 [1011]
gravitational fields, quantum mechanics, relativity theory, ev		blood clotting, Dicumarol, anticoagulant therapy, thr	ombus 1951 Mar p 18-21
horizon 1977 Jan p 3 binary stars, galactic energetics, globular cluster stars, neutro	n stars,	platelets, hemagglutination, hemostasis, role of pla	telets in clotting
stellar evolution, X-ray stars, astronomy satellites, burster	'S'	mechanism hemagglutination, fibrinogen, molecular biology, th	1961 Feb p 38-04
1977 Oct p 4	Oct p 54	of thrombin in converting fibrinogen into fibrin	1962 Mar p 60-66
ellipticai gaiaxies 'collapsar' Englon Aurigae	Mar p 46	blood disorders, anemia, brain damage, environmenta	l toxins, kidney
candidate in Cygnus	Nov p 48 ug p 44B	disorder, lead poisoning, nerve disorders 1971 I blood donors, Red Cross campaign	Feb p 15-23 [121] 1948 Sept p 28
variable X-ray sources	Apr p 84	blood fractionation, poliomyelitis, gammaglobulin, enu	demiology.
black-jack, now to ocat the odds	itity,	immunity, vaccine blood plasma, erythrocyte, leukocyte, platelets, centi	1953 July p 25–29
black power, American Negro, ficial assurery, social deprivation economic power, ethnic groups, slavery, social deprivation 1967 Apr p 21		transfusion, blood banks	1954 Feb p 54-62
The Moditorranean Sea sea level, geological l	history of	more fractions on market	1949 Sept p 32
	2–63 [932]	more by-products portable fractionator	1950 Sept p 51 1951 Sept p 54
Blackett hypothesis, geomagnetism, permanent magnetism,		blood groups, immune response, Rh factor, Rh incompa	tibility,
electromagnetism, Elsassor Bartar 2 7 pt 1950 June	p 20-24	prevention of 'Rhesus' babies 1968 No genetic drift, mutation, consanguinity, gene pool, evo.	ov p 46–52 [1126]
ti markles hard migration, bliu havigation,	gation,	genetics Parma Valley, Italy	969 Aug n 30-37
indigo bunting, planetarium experiments 1975 Aug p 102-1	[]] [1327] 0	olood pigments, hemoglobin, hemocyanin, chlorocruorin	950 Mar n 20-22
		the advances and blood fractionation, erythrocyte, leukocyte	e, platelets,
The state of the s	104-111	- those cell-surface antigens, glycoproteins, interfero	954 Feb p 54-62
diffraction, gaustotics, difficulty	ine D 40	molecule 1974 Ma	ур 78-86 [1295]
comparative incidence in time and place blast furnace, steel production, iron ore, smelting, furnace smelting pressure 1948 May	p 54-57		
•			

olood pressure, learning, autonomic nervous system, heart rate, curare, electrocardiography, learning voluntary control of autonomic	Bok globules, galaxy structure, interstellar matter, Milky Way, stellar formation, supernovae, galactic dust clouds, nebulae, Gum Nebula 1972 Aug. p 48-61
nervous system 1970 Jan p 30-39 [525] human physiology, autonomic nervous system, transcendental	gravitational instability, interstellar clouds, interstellar dust, stellar
meditation, yoga, Zen Buddhism, physiology of meditation 1972 Feb p 84-90 [1242]	formation, local galaxy 1977 June p 66-81 [366] bomb craters, cratering, ecological warfare, defoliation, laterization,
comparative physiology, extravascular pressure, breathing, giraffe	Vietnam war 1972 May p 20-29 [1248] bombers, arms race, SALT, AWACS, strategic weapons military
respiration 1974 Nov p 90-105 [1507] science history, plant physiology, sap flow, Stephen Hales's work 1976 May p 98-107	expenditures, antiaircraft sytems 1973 Aug p 11-19 arms control, SALT, cruise missiles, strategic weapons Carter
blood proteins, bacterial infection, gammaglobulin, antibodies,	administration 'comprehensive proposal' for US-USSR, force
immunology, tissue grafts, agammaglobulinemia, hereditary immunological deficiency 1957 July p 93-104	bone, calcium, muscle fiber, mitotic spindle, calcium and life
blood transfusion, shock, traumatic shock, capillary bed, electrolyte - balance, cardiovascular system 1952 Dec p 62-68	1951 June p 60-63 calcium, cartilage, feedback, hydroxyapatite crystal, osteoclasts
blood plasma, blood fractionation, erythrocyte, leukocyte, platelets,	1955 Feb p 84-91 amino acids, fossil mollusk shells, paleontology, paleobiochemistry
centrifuge, blood banks 1954 Feb p 54-62 self-donated blood 1972 Jan p 47	1956 July p 83-92 [101]
see also cross transfusion	piezoelectricity, osteogenesis, collagen, calcium metabolism, bone
blood typing, Rh factor, human evolution, Rh negative gene, Ro gene,	adaptation to mechanical stress 1965 Oct p 18–25 [1021]
race 1951 Nov p 22–25	locomotion, walking primates, human evolution, bipedal walking muscle, fossil record origin of human walking
Dunkers, geneue drift, endogamous group, ear lobes 'hitch-hiker's'	1967 Apr p 56-66 [1070]
thumb 1953 Aug p 76–81 [1062]	hunting societies, Neolithic archeology, Neolithic village, Suberde site
parentage, forensic medicine 1954 July p 78–82	in Turkey 1968 Nov p 96–106
American Negro, skin color, recessive gene, marriage preferences	evolution horn, antler, osteogenesis, keratin, ungulates, differences
population genetics, genetic meaning of race 1954 Oct. p 80-85 Judaism, racial discrimination, religious persecution, social evolution,	between horns and antlers 1969 Apr p 114–122 [1139]
genetic drift, population genetics, Jewish community of Rome	calcium metabolism, eggshell, chicken, calcite, mobilization of calcium
1957 Mar p 118–128	from bone 1970 Mar p 88–95 [1171]
pharaohs' relationship 1969 Dec p 55	calcitonin thyroid, metabolism calcium metabolism, human
blood-vessel bank, in New York City 1951 May p 36	physiology, hormone, recognition and characterization of calcitonin
blowfly, taste receptors, chemoreceptor 1961 May p 135-144	1970 Oct p 42–50
blue-green algae, Antarctica, fauna, flora, lichens, ecology, Antarctica	bone age', adolescence, child development, medical care, growth
terrestrial life 1962 Sept p 212–230 [865]	hormone, menarche, heredity vs environment 1973 Sept. p 34-43
bacteria, symbiosis, algal bloom, simplest plants, resemblance to bacteria 1966 June p 74-81	bone cancer, chelation, hemochromatosis lead poisoning, pharmacology, drug action, Wilson's disease metal poisoning, heavy metal
bacteria 1966 June p 74-81 bacteria, nitrogen cycle. nitrogen fixation, Haber process, biosphere.	poisoning, salicylates, aspirin cancer therapy, chemotherapy,
nitrate, legumes, eutrophication 1970 Sept p 136–146 [1194]	medical exploitation of chelates 1966 May p 40-50
bacteria, fossil cells, evolution, Gunflint cherts, origins of life	bone graft, preventing graft rejection 1956 Aug p 54
Precambrian rocks prokaryotic cells oldest fossils	bone marrow, mouse-rat hybrid 1957 Oct. p 60
1971 May p 30–42 [395]	bone marrow transplantation, kidney transplant, immune response,
blue-green bacteria, algae, algal bloom, cyanobacteria, gas vacuoles	radiotherapy, circumventing immune response 1959 Oct p 57-63
1977 Aug. p 90–97 [1367] 'blue haze', air pollution, smog. atmospheric inversion, particulates,	'bone-seekers', poisons, ionizing radiation, radioautography, chelate, scintillation counter 1955 Aug p 34-39
ozone, perovides, photochemistry 1955 May p 62–72	bone structure, bird flight, aerodynamics, weight-strength ratio,
blue jay, predation, plant toxins, food chain, milkweed predator-prey	respiratory air sacs, birds as flying machines 1955 Mar p 88-96
relationship, mimicry, ecology, chemical defense against predation	bookkeeping, accounting, systems design, computer technology,
1969 Feb p 22-29 [1133]	computer decision making, uses of computers in organizations
blue whale, sonar, krill, food chain, whaling natural history of the largest animal 1956 Dec p 46-50	1966 Sept p 192–202 Boolean algebra, symbolic logic, switching circuits, paradox
Antarctica, oceanography, marine biology, food chain, krill, ecology,	1950 Dec p 22-24
Antarctic convergence, biological province of Antarctic convergence 1962 Sept p 186–210	logic machine, Stanhope demonstrator, symbolic logic, syllogisms 1952 Mar p 68–73
Antarctic convergence, whaling industry, endangered species,	Bacon's cipher, binary code, computer history, science history,
International Whaling Commission 1966 Aug p 13–21	Jacquard loom, punched cards 1972 Aug p 76–83
body fluids, homeostasis, wound shock, shock, emergency medicine, treatment of shock 1958 Dec p 115-124	Boolean logic, binary arithmetic, integrated circuits, large-scale integrated
treatment of shock 1958 Dec p 115–124 body-organ reversal, ciliary immobility 1976 Sept p 68	circuits, logic elements, microelectronics 1977 Sept p 82–106 [376] boomerang, aerodynamics, airfoil, computer graphics, actual and
body temperature, hibernation metabolic rate, thermoregulation animal	theoretical boomerang orbits 1968 Nov. p 124–136
behavior 1950 Dec p 18-21	borane fuels, boron, metalloid element, crystal structure, properties and
sleep biological clock, waking 1952 Nov p 34-38 [431]	applications of boron compounds 1964 Jan p 88-97
hummingbird metabolism, thermoregulation hibernation surface to-	borazon, artificial diamonds lithosphere, ultra-high pressure, coesite,
volume ratio 1953 Jan p 69–72	properties of matter under 2 × 10 ⁵ p s 1 1959 Nov p 61-67
shrews metabolism thermoregulation, surface-to-volume ratio	production process 1957 Apr p 69
hbernation hypothermia, surgery, shock, metabolism, artificial	Bordes method, stone tools, tool assemblages, multivariate analysis,
lowering of body temperature for surgery and shock	factor analysis, computer analysis, Paleolithic archeology, stone tools as fossils of behavior 1969 Apr. p. 70-84 16431
1958 Mar p 104-114	as fossils of behavior 1969 Apr p 70-84 [643] boredom, electroencephalography, perceptual isolation, hallucination,
body temperature regulation, see thermoregulation	neuropsychology, sensory deprivation, effect of exposure to
body water, water balance, homeostasis, distribution between	monotonous environment 1957 Ian m 52_56 (420)
intracellular and extracellular 'compartments'	boron, metalloid element, crystal structure, borane fuels, properties and
boiling, liquids heat transfer, nuclear boiling, transition boiling film	applications of boron compounds 1964 Jan p 88–97 crystal structure, crystallography, X-ray diffraction
boiling 1954 June p 64-68 boiling-water reactor, fission reactor, nuclear power, breeder reactor,	1966 July p. 96, 107
homogeneous reactor, sodium-cooled reactor, fast neutron reactor	boscovicit, atomic theory, Greek science, Renaissance science, science
1954 Dec. p 33-39	history, Lucretius forces between atoms 1970 May p 116-122
200 P 200 P	

boson, high-energy physics, mesons, v-particles, fermion, the multi-	plicity brain damage, birth trauma, cerebral palsy, asphyxia, monkey
of particles 1952 Jan p	22-27 experiments, implications for human infants
cosmic rays, intermediate boson 1971 Oc	1 p 42
high-energy physics, fermion, guage theory 1977 Mai	D DI SDCCCH Writing hruin homicohoras carebral acatal s
botanical collections, food plants, herbarium resources, pharmacole	Pgy organization of the brain 1970 Mar n 66-78 (526)
1977 May p 96–104	[1359] anemia, environmental toxins, blood disorders, kidney disorder, lead
botany, taxonomy, set theory, computer applications, zoology, nun	terical poisoning nerve disorders 1971 Feb p 15–23 [1211]
taxonomy, computer classification of living things	aphasia, Broca's area, language, speech disorders
1966 Dec p 106-116	[1059] 1972 Apr p. 76–83 [1246]
botulism, bacterial toxin, tetanus, paralysis, nerve impulse, inhibito	Drain death, irreversible come as definition of death 1068 Sont n. 95.
impulse, synapse, motor neuron, Clostridium tetani, Clostridiu	
botulinum 1968 Apr p	i mining, memory, rus,
boundary layer, airfoil, laminar flow, turbulence, aerodynamics	sensory deprivation 1972 Feb p 22–29 [541]
1954 Aug p	The state of the s
ailerons, aircraft design, aerodynamies, smoke tunnel, airfoil, low speed flight 1956 Apr. p.	
speed flight 1956 Apr p boundary-phase hypothesis, superdense water, water II, polymerizat	
polywater, thermal conductivity, surface tension, evidence for	
Il argued 1970 Nov p	
Bounty, Bligh, breadfruit, mutiny on a scientific expedition	52-71 supplies 45 percent of postdoctorals in U S 1970 Jan p 52 brain endocrinology, brain function, drug action, drug addiction,
1953 Mar p	
Bourbaki, mathematics, philosophy of science, axiomatics, science	1977 Mar p 44–56
history, labors of the mathematical collective self-styled Bourba	
1957 May p	
bowerbirds, sexual behavior, courtship display, animal behavior, are	
behavior, Australian bowerbird, natural history 1956 June p	
arena behavior, sexual behavior, animal behavior, courtship displ	
releaser stimulus, ethology, natural history	monkey brain, holographic model, neurophysiology of remembering
1963 Aug p 38–46	[1098] 1969 Jan p 73–86 [520]
boxing, the bottom rung 1952 May	
bad for health 1952 Oct	p 46 tryptophan, feedback 1974 Feb p 84-91 [1291]
Boyle's law, chemical experimentation, pneumatics, science history,	drug action, drug addiction, endodorphins, enkephalins, internal
philosophy 1967 Aug p 9	
bradykinin, kınıns, peptides, kallıdın, venom, ınflammation, globulır	cyclic AMP, dopamine, endocrine system, messenger molecules, nervous system, neurotransmitters, L-DOPA treatment, Parkinson's
local hormones, production and distribution	
1962 Aug p 111–118 Bragg's law, X-ray crystallography, atomic structure, crystal structur	100 110 (110 (110 (110 (110 (110 (110 (
ray diffraction, Fourier analysis 1968 July p 58-70	7,1
brain, cerebral cortex, cerebrum, cerebellum, brain surgery,	split-brain experiments, monkey, cat, human post-operative subject
electroencephalography, 'the great raveled knot', localization of	1964 Jan p 42–52 [174]
brain function 1948 Oct p 26-39	[13] cerebral dominance, perception, spirt-brain experiments, corpus
memory, learning, cerebral cortex, fundamental research, What is	callosum, intelligence, language, localization of brain function
memory? 1953 Sept p 118–126	[11] 1967 Aug p 24-29 [508] brain damage, speech, writing, cerebral cortex, functional organization
learning, neurophysiology, neuropsychology, pleasure centers,	
hypothalamus, electrode stimulation of pleasure centers in rat bi	ani ottoo
1956 Oct p 105–116	· L=
central nervous system, medulla, reticular formation, perception, mereflex, neurophysiology, attention and orienting mechanism in both	1973 Mar p 70–78 [554]
1957 May p 54-60	
acroballum central nervous system cerebrum, neurophysiology,	handedness, hearing, musions, perception, two-tone musion
cerebral-cerebellar coordination 1958 Aug p 84-90	[38] 1975 Oct p 92–104 [566]
alkal calla learning theory memory neurones, RNA, molecular the	brain metabolism, blood-brain barrier, epilepsy, neurology, neurophysiology, physiology of the barrier and its reinforcement
of memory 1961 Dec p 02-70 [134] Hedrophysiology, physiology of the barrier and its removement.
auditory beats, hearing, neurology, sound vibrations, auditory	1 146-b 1 11 1
19/3 UCL D 34-102 [1	1967 June p 115–122 [1077]
brain circuitry, cerebellar cortex, neuronal networks, Purkinje cells, mossy fibers 1975 Jan p 56-71 [1.	
mossy meets	. AQ monkey experiments 17/3 3413 p 30-103 [12/7]
memory sites 1973 July p	51 memory, hippocampai system, rats, spatial memory
to the state of the control of the c	1977 June p 82-98 67 brain size, brain evolution, cephalization index, endocranial casts,
microscopy nerve signals, nerve structure, offactory system, standard	broin stimulation, animal behavior, neurotransmitters, hormone, drive
techniques, Golgi stain, Nissl stain 1971 July p 48–60 [12]	on activation by injection of chemicals into rat brain
techniques, Golgi stain, Nissi stain mammalian brain, nerve signals, sensory systems, stimulus localizati mammalian brain, nerve signals, sensory systems, stimulus localizati	
visual perception, superior comeditas in integration per 72–82 [5	brain surgery, brain, cerebrat cortex, cerebrating, cerebrating,
cells neuronal specificity, visual cort	ex, electroencephalography, the great laveled knot, localization of
embryonic development, nerve cens, neuronal property property property in the	65) brain function 1948 Oct p 26–39 [13]
	• electroencephalography, alpha thythms, medical diagnosis
Xenopus laevis	brain waves, electroencephalography, alpha my tamb medical diagnosis,
brain, cerebellar cortex, neuronal networks, Purkinje cells, mossy fib	brain waves, electroencephalography, applications included diagnosis, Fourier analysis, toposcope display, automata theory
brain, cerebellar cortex, neuronal networks, Purkinje cells, mossy fib	brain waves, electroencephalography, apin Hydran inches diagnosis, Fourier analysis, toposcope display, automata theory 1954 June p 54-63
brain, cerebellar cortex, neuronal networks, Purkinje cells, mossy fib 1975 Jan p 56–71 [13] adrenal hormones, gonadal hormones, hormone sensitive neurons, se hormones, sexual behavior, sex differences, steroid hormones, active	brain waves, electroencephalography, the provided the street of the stre
brain, cerebellar cortex, neuronal networks, Purkinje cells, mossy fib 1975 Jan p 56–71 [13] adrenal hormones, gonadal hormones, hormone sensitive neurons, se hormones, sexual behavior, sex differences, steroid hormones, active	brain waves, electroencephalography, the provided the street of the stre
kenopus facvis brain, cerebellar cortex, neuronal networks, Purkinje cells, mossy fib 1975 Jan p 56-71 [13 adrenal hormones, gonadal hormones, hormone sensitive neurons, se hormones, sexual behavior, sex differences, steroid hormones, active 1975 Jan p 56-71 [13 2075] June 1975 [13 207	brain waves, electroencephalography, the provided the street of the stre

			1967 Nov p 59
dreams, sleep research, electroencephalography	r, reticular formation,	reactor safety	1968 June p 44
paradoxical sleep, REM sleep, cat brain, the	states of sleep	uranium-thorium cycle British and French success	1976 May p 50
	1967 Feb p 62-72 [504] 1949 Dec p 29	program in U S	1977 Mar p 58
kappa for thinking	1965 Jan p 52	nuclear energy and weapons proliferation	1978 May p 81
brain weight, effect of experience Brauron, Classical archeology, Greek civilization,		breeding cycle, avian reproduction, ring dove, se	exual behavior, hormone,
Brauron, Classical archeology, Oreck civinzation	1963 June p 110–120	fertilization	1964 Nov p 48–54 [488]
Brazil, economic development, industrialization,		brewing, beer, enzymes, yeast, fermentation, hop	os, chemistry and
subsistence economy, tropical rain forest, ur	banization, resource	microbiology of brewing	1959 June p 90–100
management, uneven national development	1963 Sept p 208–220	baking, yeast, riboflavin synthesis, cryptococc	al meningitis,
bread, kneading and baking by continuous proce	ss 1966 Aug. p 44	fermentation, cell physiology, yeasts, useful	
smell of bread	1968 June p 46	bride price, commerce, money, cultural anthropo	1960 Feb p 136–144
breadfruit, Bounty, Bligh, mutiny on a scientific	expedition	Southwest Pacific-Solomon Islands culture	1962 Mar p 94–104
the second secon	1953 Mar p 88–94	marriage contracts, anthropology, Sebei tribe	1973 July p 74-85
breakers, tsunamis, seiches, ocean waves, surf, ge propagation of ocean waves	1959 Aug. p 74–84 [828]	bridges, suspension bridges, aerodynamics, harr	nonic oscillation
breath-holding, record	1956 Oct p 74		1954 Nov p 60-71
carotid bodies	1974 June p 51	bright-light exposure, electroretinography, vitan	
breathing, whale, diving physiology	1949 July p 52–55	blindness, opsin, rhodopsin, retinitis pigme	
lung, human physiology, alveoli, mechanism o	f breathing		1966 Oct p 78-84 [1053]
	1960 Jan p 138-148	Brillouin scattering, coherent radiation, interfer	1968 Sept p 120–136
alveoli, lung collapse, premature infants, lecitl	un, surface tension,	light brine, Red Sea hot brines, salimity, percolation,	
surfactant, hyaline membrane disease, soap	1962 Dec p 120–130	spreading	1970 Apr p 32-42
surface tension in lungs lung, neonatal physiology, respiration, first br		Britain, Neolithic archeology, woodhenges, hen	
fullg, inconatal physiology, respiration, histor	1963 Oct p 27–38	Stonehenge	1970 Nov p 30-38
asphyxia, diving bradycardia, respiratory gas		frontier life, Roman Britain, Hadrian's Wall,	Vindolanda site
mammals, diving birds, hibernation, oxyger	n storage, selective		1977 Feb p 39-46 [692]
ischemia, human physiology, redistribution	of oxygenated blood and	Broca's area, aphasia, brain damage, language,	· .
'master switch of life'	1963 Dec p 92–106	broken English, humor, language, physics, jocul	1972 Apr p 76–83 [1246]
exercise adaptation, heart, blood circulation,	1965 May p 88–96 [1011]	Niels Bohr	1956 Mar p 93–102
physiology gas exchange, thorax, lung pulmonary ventila	ition, alveoli, human	bromide poisoning, patent medicine hazard	1950 Aug p 30
physiology, vital capacity, mechanics and p	hysiology of breathing,	bronchitis, air pollution, emphysema, public hea	
anatomy of lung	1966 Feb p 56-68 [1034]	health, US cities, smog and public health	
anxiety, polygraph, lying, psychosomatic illin		bronchospasm, aspirin, inflammation, analgesic	
temperature, 'he detector' mis-named Ama, diving, diving women, Korea, Japan, hi	1967 Jan p 25–31 [503]	reaction, anaphylactic shock, mode of action widely used drug	1963 Nov p 96–108
metabolism, adaptation	1967 May p 34–43	bronze, Etruscans, metallurgy	1955 Nov p 90–98
lung, gill, oxygen transfer, carbon dioxide, ga	s exchange, water-	Bronze Age, Iron age culture, rock paintings, C.	amunian culture
breathing by mammals, animal experiment	is in water-breathing	Mycenaean civilization, Italian rock carvin	
	1968 Aug. p 66-74 [1123]	burial site, Classical archeology, Greek colon	
Antarctica, seal, directional orientation, brea	69 Aug. p 100–106 [1156]	Indian culture link Iron Age, ironworking history, metallurgy, ca	1960 Oct p 62–71
avian respiratory system, bird bones, lung sti			1977 Oct p 122-131 [699]
• • •	1971 Dec p 72-79 [1238]	wine vessels	1959 Aug. p 70
comparative physiology, blood pressure, extr		arsenic bronze	1967 Apr p 52
	974 Nov p 96–105 [1307] 1952 Dec p 58–60	brown fat, adipose tissue, lubernation, thermore	
breeder reactor, liquid-metal coolant fission reactor, nuclear power, boiling-water		metabolism, cold adaptation, neonatal phy in newborn animals, including man	1965 Aug n 62_65 (1018)
reactor, sodium cooled reactor, fast neutro	on reactor	altitude adaptation, Quechua Indians, acclim	atization, deer mice.
	1954 Dec p 33-39	hemoglobin, metabolic rate, exercise, huma	
'atoms for peace', fission reactor, nuclear po	· ·		1970 Feb p 52-62 [1168]
Gerian social musleus pay on anomy social	1955 Oct p 56-68	brown rat, animal communication, rats	977 May p 106-116 [577]
fission reactor, nuclear power, energy econo	1958 Mar p 29-35	Brownian motion, measurement, time, velocity, Planck's constant, limits of measurement	uncertainty principle,
fission reactor, nuclear power, energy econo	•	mathematics, probability, combinatorial analy	וווג מכאן 15–48 ק לוווג מכאו ל
uranium cycle, breeder reactor developme		Markov chain Pascal's triangle, statistics,	
fission reactor, energy demand uranium fiss	ion, plutonium 'third		1964 Sept p 92~108
generation' breeder reactors	1967 May p 25-33	probabilistic potential theory, potential theor	3, harmonic functions
nuclear power, fast neutron reactor, uraniur liquid metal reactor, fission reactor energians.		Emissillatis in succession	1969 Mar p 66-74
nquia metar reactor, nasion reactor energ	1970 Nov p 13-21 [339]	brucellosis in animals, vaccine Bruegel the Elder, Renaissance technology, tecl	1953 Sept p 84
fast neutron reactor nuclear power, fission	reactor, Superphenix in	practical knowledge at work 400 years ago	mology, gampses of
France	1977 Mar p 26-35	19	78 Mar p 134-140 (3003)
nuclear power, atomic weapon proliferation	arms control plutonium	Bruno, science history, Copernican revolution,	Galileo's heresy.
fuel cycle, US energy policy and prolifer	1978 Apr p 45-57 [3004]	martyrdom of Giordano Bruno re-examine	ed 1973 Apr p 86-94
A E.C approves design	1950 Jan p 28	Bryan, Darwinism, evolution, creationism, Dar trial, U.S.A	row, Scopes trial, Scopes
deferred by A E C	1950 June p 27	bubble chamber, cloud chamber, liquid hydroge	1959 Jan p 120–130
at Arco Idaho	1952 Feb p 34		1955 Feb n 46-50 (216)
Arco design discolsed breaking even	1952 Nov p 42	spark chamber, particle accelerator, cloud ch	amber, particle tracks
nitrogen use of heavy nitrogen in reactor	1953 July p 40		1062 Aug = 26 42
plutonium fucled	1956 Feb p 52 1959 July p 65	alternating gradient synchrotron 'eightfold v	Lat' Omega-minur
uranium ore resources	1961 Mar p 82	particle particle accelerator, high-energy p National Laboratory experiment	mysics US Brookhaven
Atomic Energy Commission program	1963 Jan p 58	new particle trap	1964 Oct p 36-45
		•	1954 Jan p 39

xenon bubble chamber tracks 1956 May p. 5	
bubble chamber experiments, beta decay, high-energy physics, hadrons,	was a sure of the fittee that in the fittee from the state of the stat
neutrino beam, particle accelerator, positron 1973 Aug p. 30-3.	NOMENCE DATE CLAMBE hulding contraction would be and
bubbles, flotation, mineral separation, surfactant, collector ions, ore	0 1961 Nov. p. 144 154
beneficiation 1956 Dec p 99-110	Byzantine shipping, shipbuilding, Rhodian sea law, underwater
bubonic plague, epidemiology, human behavior, public health, Black	archeology, shipwreck of 17th century 1971 Aug p 22–33
Death, population history, long-term effects of plague, Europe 1348-	
50 1964 Feb p 114-121 (619	1
endemic in U.S. prairie rodents 1950 Dec. p. 30	
buffalo, animal husbandry, antelope, giraffe, elephant, rhinoceros,	•
hippopotamus, wildlife husbandry in Africa 1960 Nov p 123-134	C-4 trait, desert plants, efficiency, plant breeding
Buffon needle problem, Monte Carlo method, random numbers,	1973 Oct p 80–93 [128]]
probability, mathematics 1955 May p 90-96	cable television, communication technology, television, wired-city
building codes, building construction, construction technology, housing	concept 1971 Oct p 22–29
1971 Mar p 16-25 [341] building construction, skyscrapers, curtain wall, load-bearing wall	the state of the physicion of the plante, att tellinger,
1955 Mar p 44-48	physostigmine, contine, quintine, cocaine, ricinine, LSD, human toxins in plant physiology 1959 July p 113–121 [1087]
radar domes, pneumatic buildings, construction technology	toxins in plant physiology 1959 July p 113-121 [1087] Cahokia, Amerindian, burial mounds, Mississippian culture, New World
1956 June p 131–138	archeology 1975 Aug p 92–101 [688]
prestressed concrete, architectural engineering, materials technology	calcite, bone, calcium metabolism eggshell, chicken, mobilization of
1958 July p 25-31	calcium from bone 1970 Mar p 88–95 [1171]
Mycenaean civilization, castle, nuraghi, Classical archeology, 1000 BC	crystals, calcium carbonate crystals, crystal structure, embryonic
proto-castles in Sardinia 1959 Dec p 62-69	
architecture, primitive architecture, climate, igloo, teepee, yurt, tent,	calcitonin, thyroid, metabolism, calcium metabolism, bone, human
sod hut, adobe house, hogan, still house 1960 Dec p 134-144	physiology, hormone, recognition and characterization of calcitonin
architectural engineering roof, vault, Gothic arch, Romanesque barrel vault, Byzantine dome, vaulting technics 1961 Nov p 144-154	1970 Oct p 42-50
architecture, sunlight, lighting, solar radiation, glass	calcium, bone, muscle fiber, mitotic spindle, calcium and life 1951 June p 60-63
1968 Sept p 190-202	bone, cartilage, feedback, hydroxyapatite crystal, osteoclasts
building codes, construction technology, housing	1955 Feb p 84–91
1971 Mar p 16-25 [341]	ATP, muscle contraction, barnacle, bioluminescence, aequorin, calcium
climate, Cape Cod cottages in California 1949 Nov p 29	ions in muscle construction 1970 Apr p 84-93 [1175]
bulk effect, isomerism, isotopes, organic chemistry, paths of atoms in	ATP, actin, myosin, actinomyosin, muscle contraction, tropomyosin,
chemical reactions 1957 Nov p 117–126 [85]	troponin, microstructure of muscle filament and biochemistry of
bullet clusters, snow crystals, hexagonal habit, cloud physics, tsuzumi crystals, variations on a theme 1973 Jan p 100–107	contraction 1974 Feb p 58-71 [1290] calcium carbonate, carbon cycle, sedimentary rock, photosynthesis, fossil
crystals, variations on a theme 1973 Jan p 100–107 bumblebee energetics, bee, flower, symbiosis 1973 Apr p 96–102 [1270]	fuel combustion, biosphere, atmosphere, carbon dioxide
buoyancy, marine biology, swim bladder, chambered nautilus, cuttlebone	1970 Sept p 125–132 [1193]
1960 July p 118–128	calcium carbonate crystals, crystals, calcite, crystal structure, embryonic
burial mounds, Amerindian, Hopewell cult, New World archeology	development, sea urchin embryo 1977 Apr p 82–92
1964 Dec p 90-102	calcium-ion activator, cell motility, cell shape, embryonic development,
Amerindian, Cahokia, Mississippian culture, New World archeology	mucrofilaments, microtubules 1971 Oct p 76–82 [1233] calcium metabolism, parathyroid hormone, phosphate metabolism,
1975 Aug p 92–101 [688]	vitamin D, osteogenesis parathyroid function
Amerindian, New World archeology, Labrador 1976 Nov p 122–129 burial site, archeology, Nemrud Dagh, funerary monument, Turkey, tomb	1961 Арг р 56–63 [86]
of Antiochus I 1956 July p 38-44	bone, piezoelectricity, osteogenesis, collagen bone adaptation to
Nile valley, Egyptian civilization, Sakkara, pharaohs, tombs of the first	mechanical stress 1965 Oct p 18–25 [1021]
pharachs 1957 July p 106-110	bone, eggshell, chicken, calcite, mobilization of calcium from bone
Bronze Age, Classical archeology, Greek colony, Bahrain, Sumerian-	1970 Mar p 88-95 [1171] eggshell thinning pollution, chorinated hydrocarbons DDT, dieldnin,
Indian culture link 1960 Oct p 62–71	avian reproduction, insecticide, food chain, ecological effect of
Amerindian, Eskimo, New World archeology, 2000 B C, Port au Choix Newfoundland, skeletons 1970 June p 112-121 [657]	pesticides 1970 Apr p 72–78 [1174]
Choix, Newfoundland, skeletons 1970 June p 112-121 [657] burial treasure, Mycenaean civilization, Classical archeology,	calcitonin, thyroid, metabolism bone, human physiology, hormone,
Agamempon, dig started by Schliemann continues	recognition and characterization of calcitonin 1970 Oct p 42-50
1954 Dec p 12-18	air pollution, rickets, vitamin D, ultraviolet radiation, osteogenesis, epidemiology, sunlight 1970 Dec p 76–91 [1207]
burners, aerospace technology, Coanda effect, fluid dynamics,	calcium pump, bioluminescence, membrane potential, plant cell, ion
aerodynamics, propulsion, nozzles, nature and applications of	potential, electricity in plants 1962 Oct p 107–117 [136]
Coalida effect	calculating machine, mathematics, philosophy, Leibnitz, calculus,
1900 June P 7 2 2	symbolic logic, Leibnitz, biography 1968 May p 94-100
bursa antibodies, cell differentiation, humoral immunity, B-cells, 1-cells,	computer, pocket calculator, integrated circuits, memory 1976 Mar p 88-98
amoune system lymphocytes, invinus 1974 NOV p 30 74 [1991]	abacus, Galileo's sexton, mechanical calculators, slide rule, sexton
burying beetles, insect behavior, beetle, beetle reproduction 1976 Aug p 84–89 [1344]	1976 Apr p 104-113
1970 Aug p 07 02 [22.1]	calculus, Newton, mechanics optics life and work of Isaac Newton
business computers, computer applications, computer goes to market 1954 Jan p 21-25	1955 Dec p 73–80
economic forecasting, economic	mathematics philosophy, Leibnitz, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100
business cycle, economic analysis, economic 1975 Jan p 17–23 indicators	Fuelidean geometry, falling stone problem, infinitesimals,
but diene rubber synthesis, isoprene, Vilcanization, latex, clastering	mathematical logic, method of exhaustion, nonstandard analysis
synthetic rubber, molecular structure	1972 June n. 78–86
butterfly, alkaloids, larvae, symbiosis, insect repellants, ochariora	calculus of chances, chance, probability, odds, causation, philosophy of
adaptation, plant evolution, minusty, 1967 June p. 104–113 [1076]	science, logician's point of-view 1965 Oct p 44-54 Calcutta, shantytowns, cities, urbanization, caste, housing, poverty,
Can appellogy culture of poverty	traffic, Calcutta, a city of the poor 1965 Sept p 90–102
buying habits, poverty, Mexico City, sociology, cuitate p 114-124 [651]	

alefaction, Connecticut River, fission reactor, thermal pollution,	SV40 virus, gene transformation, chromosome mapping, tissue culture,
industrial cooling, nuclear power, fisheries, ecology, fish crisis	somatic cells, hybrid cells, genetics of human cancer
1970 May p 42-52 [1177]	1978 Feb p 117-125 [1381]
alendar, solar system, planetary motion, time, heliocentric theory, year,	research status 1949 June p 26
astronomy, Copernicus, astronomy, Copernicus, length of calendar	as psychosomatic illness 1952 June p 34
1066 Oat n 00 00	human cancer in rats, grafts secured by cortisone 1953 July p 46
year alifornium, table of elements, einsteinium, fermium, 'synthetic' elements,	cancer-inducing DNA 1960 Mar. p 93
transuranium elements, mendelevium, radioactive decay, periodic	viral cancer, mosquito carrier 1962 Apr p 74
	1073 % 42
table at 101 1956 Dec p 66-80 [243]	1000 0
Callisto, Galileo, Jupiter, Jovian satellites, solar system, Europa,	
Ganymede, Io 1976 May p 108-116	cancer 'cure', herbal quackery 1950 Dec p 31
caloric heat theory, ballistics, science history, oven, Rumford, heat as	cancer diagnosis, cancer, enzyme blood levels, myocardial infarction,
motion, Benjamin Thomson, biography 1960 Oct p 158-168	hepatitis, leukemia, medical diagnosis, diagnosis by presence of
calorie: down, joule up 1951 Feb p 34	abnormal enzymes 1961 Aug p 99–107
Calvin cycle, algae, photosynthesis, chloroplast, oxidative	cancer epidemiology, cancer, carcinogenesis, occupational cancer, cancer
phosphorylation, path of carbon in photosynthesis	prevention, increased incidence of cancer sought in environmental
1962 June p 88–100 [122]	and behavioral factors 1949 Jan p 11-15
	carcinogenesis, environmental carcinogens, immune response, gene
camera, eye, rod cells, cone cells, retina, iris, optogram, rhodopsin,	
anatomy and physiology of the eye, camera as metaphor	mutation, virus disease, cancer prevention
1950 Aug p 32-41 [46]	1975 Nov p 64-78 [1330]
lens design, telescope, interferometry, computer graphics, image	environmental and behavioral causes 1948 Dec p 27
formation, light 1968 Sept p 96–108	cancer immunology, antibodies, cancer, cell-surface antigens,
camouflage, birds, caterpillars, mimicry, behavioral adaptation, defense	immunopotentiators, immune response, tumor-specific antigens,
by color 1957 Oct p 48–54	leukemia, transplantation antigens 1977 May p 62-79 [1358]
	cancer prevention, cancer, cancer epidemiology, carcinogenesis,
evolution, melanism, moths, speciation, air pollution, population	cancer prevention, cancer, cancer epideniology, careinogenesis,
genetics, mutation, genetic variation, evolution observed	occupational cancer, increased incidence of cancer sought in
1959 Mar p 48-53 [842]	environmental and behavioral factors 1949 Jan p 11–15
bioluminescence, fish, fish-scale crystals, tapetum lucidum, optics	cancer surgery, perfusing malignant tumors 1959 June p 85
under water 1971 Jan p 64-72 [1209]	cancer therapy, isotopes, X-ray, radiotherapy, ionizing radiation,
Camunian culture, Bronze Age, Iron age culture, rock paintings.	dosimetry, roentgenology, nuclear medicine, radiation use in
Mycenaean civilization, Italian rock carvings 1960 Jan p 52-59	medicine 1959 Sept p 164-176
Canadan destantian as its master are CANDU secretor	radiation damage, nitrogen mustard, carcinogenesis, mutation, nuclear
Canadian deuterium oxide reactor, see CANDU reactor	
'canals', Mars, polar cap, desert, atmosphere, climate, picture from Earth-	medicine, chemical imitation of radiation injury
bound study 1953 May p 65-73	1960 Jan p 99–108
canals, chinampa, drainage, Mexican agriculture, agricultural system,	chelation, hemochromatosis, lead poisoning, pharmacology, drug
Aztec civilization, highly productive farm plots, Aztec empire	action, Wilson's disease, metal poisoning, heavy metal poisoning,
1064 July = 00 00 (640)	bone cancer, salicylates, aspirin, chemotherapy, medical exploitation
1904 July D 30-38 (048)	port cancer, sancyrates, aspirin, enemoticiapy, incurca exploitation
1964 July p 90–98 [648] agricultural irrigation, hydro-engineering, pipelines, Jordan Valley	
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley	of chelates 1966 May p 40-50
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23–31	of chelates 1966 May p 40-50 asparaginase, leukemia 1968 Aug p 34-40
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23–31 barge transport, technology history, transportation, in U S	of chelates 1966 May p 40-50 asparaginase, leukemia 1968 Aug p 34-40 interferon 1969 Oct p 50
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23-31 barge transport, technology history, transportation, in U S 1976 July p 116-124	of chelates 1966 May p 40-50 asparaginase, leukemia 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia,
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23-31 barge transport, technology history, transportation, in U S 1976 July p 116-124 canary, learning, 'unique stimulus' problem 1955 June p 72-79	of chelates 1966 May p 40-50 asparaginase, leukemia 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23-31 barge transport, technology history, transportation, in U S 1976 July p 116-124	of chelates 1966 May p 40-50 asparaginase, leukemia 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia,
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23-31 barge transport, technology history, transportation, in U S 1976 July p 116-124 canary, learning, 'unique stimulus' problem 1955 June p 72-79	of chelates 1966 May p 40-50 asparaginase, leukemia 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23-31 barge transport, technology history, transportation, in U S 1976 July p 116-124 canary, learning, 'unique stimulus' problem 1955 June p 72-79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous-
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23-31 barge transport, technology history, transportation, in U S 1976 July p 116-124 canary, learning, 'unique stimulus' problem 1955 June p 72-79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111-118	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23-31 barge transport, technology history, transportation, in U S 1976 July p 116-124 canary, learning, 'unique stimulus' problem 1955 June p 72-79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111-118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185]
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23-31 barge transport, technology history, transportation, in U S 1976 July p 116-124 canary, learning, 'unique stimulus' problem 1955 June p 72-79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111-118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40-43	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23-31 barge transport, technology history, transportation, in U S 1976 July p 116-124 canary, learning, 'unique stimulus' problem 1955 June p 72-79 Canary, Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111-118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40-43 cancer epidemiology, carcinogenesis, occupational cancer, cancer	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23-31 barge transport, technology history, transportation, in U S 1976 July p 116-124 canary, learning, 'unique stimulus' problem 1955 June p 72-79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111-118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40-43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer 1966 Mar p 34-41
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23-31 barge transport, technology history, transportation, in U S 1976 July p 116-124 canary, learning, 'unique stimulus' problem 1955 June p 72-79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111-118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40-43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental and behavioral factors 1949 Jan p 11-15	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer 1966 Mar p 34-41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA polymerase,
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23-31 barge transport, technology history, transportation, in U S 1976 July p 116-124 canary, learning, 'unique stimulus' problem 1955 June p 72-79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111-118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40-43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental and behavioral factors 1949 Jan p 11-15 embryonic development, dedifferentiation of tissue cells, regeneration	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer 1966 Mar p 34-41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA polymerase, RNA-directed DNA polymerase 1972 Jan p 24-33 [1239]
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23-31 barge transport, technology history, transportation, in U S 1976 July p 116-124 canary, learning, 'unique stimulus' problem 1955 June p 72-79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111-118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40-43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental and behavioral factors 1949 Jan p 11-15 embryonic development, dedifferentiation of tissue cells, regeneration 1949 Dec p 22-24	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer 1966 Mar p 34-41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA polymerase,
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23-31 barge transport, technology history, transportation, in U S 1976 July p 116-124 canary, learning, 'unique stimulus' problem 1955 June p 72-79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111-118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40-43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental and behavioral factors 1949 Jan p 11-15 embryonic development, dedifferentiation of tissue cells, regeneration 1949 Dec p 22-24 gene mutation, evidence for genetic factor in laboratory animals	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer 1966 Mar p 34-41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA polymerase, RNA-directed DNA polymerase 1972 Jan p 24-33 [1239]
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23-31 barge transport, technology history, transportation, in U S 1976 July p 116-124 canary, learning, 'unique stimulus' problem 1955 June p 72-79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111-118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40-43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental and behavioral factors 1949 Jan p 11-15 embryonic development, dedifferentiation of tissue cells, regeneration 1949 Dec p 22-24 gene mutation, evidence for genetic factor in laboratory animals	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer 1966 Mar p 34-41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA polymerase, RNA-directed DNA polymerase 1972 Jan p 24-33 [1239] adenoviruses, herpes virus, virus disease, viral vaccines
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23–31 barge transport, technology history, transportation, in U S 1976 July p 116–124 canary, learning, 'unique stimulus' problem 1955 June p 72–79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111–118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40–43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental and behavioral factors 1949 Jan p 11–15 embryonic development, dedifferentiation of tissue cells, regeneration 1949 Dec p 22–24 gene mutation, evidence for genetic factor in laboratory animals 1950 July p 44–47 crown gall, plant tissue culture 1952 June p 66–72	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer 1966 Mar p 34-41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA polymerase, RNA-directed DNA polymerase 1972 Jan p 24-33 [1239] adenoviruses, herpes virus, virus disease, viral vaccines 1973 Oct p 26-33 degenerative diseases, immune system, slow virus infection, virus
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23–31 barge transport, technology history, transportation, in U S 1976 July p 116–124 canary, learning, 'unique stimulus' problem 1955 June p 72–79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111–118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40–43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental and behavioral factors 1949 Jan p 11–15 embryonic development, dedifferentiation of tissue cells, regeneration 1949 Dec p 22–24 gene mutation, evidence for genetic factor in laboratory animals 1950 July p 44–47 crown gall, plant tissue culture 1952 June p 66–72	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer 1966 Mar p 34-41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA polymerase, RNA-directed DNA polymerase 1972 Jan p 24-33 [1239] adenoviruses, herpes virus, virus disease, viral vaccines 1973 Oct p 26-33 degenerative diseases, immune system, slow virus infection, virus disease, kuru, scrapie, herpes virus 1974 Feb p 32-40 [1289]
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23–31 barge transport, technology history, transportation, in U S 1976 July p 116–124 canary, learning, 'unique stimulus' problem 1955 June p 72–79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111–118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40–43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental and behavioral factors 1949 Jan p 11–15 embryonic development, dedifferentiation of tissue cells, regeneration 1949 Dec p 22–24 gene mutation, evidence for genetic factor in laboratory animals 1950 July p 44–47 crown gall, plant tissue culture 1952 June p 66–72 tissue culture, drug research, clone, somatic cells, technique and uses of	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer 1966 Mar p 34-41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA polymerase, RNA-directed DNA polymerase 1972 Jan p 24-33 [1239] adenoviruses, herpes virus, virus disease, viral vaccines 1973 Oct p 26-33 degenerative diseases, immune system, slow virus infection, virus disease, kuru, scrapie, herpes virus 1974 Feb p 32-40 [1289] isolated in nuce
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23-31 barge transport, technology history, transportation, in U S 1976 July p 116-124 canary, learning, 'unique stimulus' problem 1955 June p 72-79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111-118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40-43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental and behavioral factors 1949 Jan p 11-15 embryonic development, dedifferentiation of tissue cells, regeneration 1949 Dec p 22-24 gene mutation, evidence for genetic factor in laboratory animals 1950 July p 44-47 crown gall, plant tissue culture 1952 June p 66-72 tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer 1966 Mar p 34-41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA polymerase, RNA-directed DNA polymerase 1972 Jan p 24-33 [1239] adenoviruses, herpes virus, virus disease, viral vaccines 4973 Oct p 26-33 degenerative diseases, immune system, slow virus infection, virus disease, kuru, scrapie, herpes virus 1974 Feb p 32-40 [1289] isolated in muce 1949 May p 28 CANDU reactor: Canadian deuterium oxide reactor
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23–31 barge transport, technology history, transportation, in U S 1976 July p 116–124 canary, learning, 'unique stimulus' problem 1955 June p 72–79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111–118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40–43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental and behavioral factors 1949 Jan p 11–15 embryonic development, dedifferentiation of tissue cells, regeneration 1949 Dec p 22–24 gene mutation, evidence for genetic factor in laboratory animals 1950 July p 44–47 crown gall, plant tissue culture 1952 June p 66–72 tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture 1956 Oct p 50–55 enzyme blood levels, my ocardial infarction, hepatitis cancer diagnosis.	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer 1966 Mar p 34-41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA polymerase, RNA-directed DNA polymerase 1972 Jan p 24-33 [1239] adenoviruses, herpes virus, virus disease, viral vaccines 4973 Oct p 26-33 degenerative diseases, immune system, slow virus infection, virus disease, kuru, scrapie, herpes virus 1974 Feb p 32-40 [1289] isolated in muce 1949 May p 28 CANDU reactor; nuclear power, natural reactor, heavy-water reactor,
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23–31 barge transport, technology history, transportation, in U S 1976 July p 116–124 canary, learning, 'unique stimulus' problem 1955 June p 72–79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111–118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40–43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental and behavioral factors 1949 Jan p 11–15 embryonic development, dedifferentiation of tissue cells, regeneration 1949 Dec p 22–24 gene mutation, evidence for genetic factor in laboratory animals 1950 July p 44–47 crown gall, plant tissue culture 1952 June p 66–72 tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture 1956 Oct p 50–55 enzyme blood levels, my ocardial infarction, hepatitis cancer diagnosis, leukemia, medical diagnosis, diagnosis by presence of abnormal	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer 1966 Mar p 34-41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA polymerase, RNA-directed DNA polymerase 1972 Jan p 24-33 [1239] adenoviruses, herpes virus, virus disease, viral vaccines 1973 Oct p 26-33 degenerative diseases, immune system, slow virus infection, virus disease, kuru, scrapie, herpes virus 1974 Feb p 32-40 [1289] isolated in muce 1949 May p 28 CANDU reactor; Canadian deuterium oxide reactor CANDU reactor, nuclear power, natural reactor, heavy-water reactor, fission reactor, CANDU system 1975 Oct p 17-27
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23–31 barge transport, technology history, transportation, in U S 1976 July p 116–124 canary, learning, 'unique stimulus' problem 1955 June p 72–79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111–118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40–43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental and behavioral factors 1949 Jan p 11–15 embryonic development, dedifferentiation of tissue cells, regeneration 1949 Dec p 22–24 gene mutation, evidence for genetic factor in laboratory animals 1950 July p 44–47 crown gall, plant tissue culture 1952 June p 66–72 tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture 1956 Oct p 50–55 enzyme blood levels, myocardial infarction, hepatitis cancer diagnosis, leukemia, medical diagnosis, diagnosis by presence of abnormal enzymes	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer 1966 Mar p 34-41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA polymerase, RNA-directed DNA polymerase 1972 Jan p 24-33 [1239] adenoviruses, herpes virus, virus disease, viral vaccines 1973 Oct p 26-33 degenerative diseases, immune system, slow virus infection, virus disease, kuru, scrapie, herpes virus 1974 Feb p 32-40 [1289] isolated in muce CANDU reactor: Canadian deuterium oxide reactor CANDU reactor, nuclear power, natural reactor, heavy-water reactor, fission reactor, CANDU system 1975 Oct p 17-27 Cannabis sativa, marijuana, drug abuse, consciousness, pharmacology,
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23–31 barge transport, technology history, transportation, in U S 1976 July p 116–124 canary, learning, 'unique stimulus' problem 1955 June p 72–79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111–118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40–43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental and behavioral factors 1949 Jan p 11–15 embryonic development, dedifferentiation of tissue cells, regeneration 1949 Dec p 22–24 gene mutation, evidence for genetic factor in laboratory animals 1950 July p 44–47 crown gall, plant tissue culture 1952 June p 66–72 tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture 1956 Oct p 50–55 enzy me blood levels, myocardial infarction, hepatitis cancer diagnosis, leukemia, medical diagnosis, diagnosis by presence of abnormal enzymes 1961 Aug p 99–107 leukemia, leukocyte, chemotherapy, virus, ionizing radiation. Down's	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer 1966 Mar p 34-41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA polymerase, RNA-directed DNA polymerase 1972 Jan p 24-33 [1239] adenoviruses, herpes virus, virus disease, viral vaccines 1973 Oct p 26-33 degenerative diseases, immune system, slow virus infection, virus disease, kuru, scrapie, herpes virus 1974 Feb p 32-40 [1289] isolated in ruce 1949 May p 28 CANDU reactor: Canadian deuterium oxide reactor CANDU reactor, nuclear power, natural reactor, heavy-water reactor, fission reactor, CANDU system 1975 Oct p 17-27 Cannabis sativa, marijuana, drug abuse, consciousness, pharmacology, sociology
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23–31 barge transport, technology history, transportation, in U S 1976 July p 116–124 canary, learning, 'unique stimulus' problem 1955 June p 72–79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111–118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40–43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental and behavioral factors 1949 Jan p 11–15 embryonic development, dedifferentiation of tissue cells, regeneration 1949 Dec p 22–24 gene mutation, evidence for genetic factor in laboratory animals 1950 July p 44–47 crown gall, plant tissue culture 1952 June p 66–72 tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture 1956 Oct p 50–55 enzyme blood levels, myocardial infarction, hepatitis cancer diagnosis, leukemia, medical diagnosis, diagnosis by presence of abnormal enzymes 1961 Aug p 99–107 leukemia, leukocyte, chemotherapy, virus, ionizing radiation, Down's syndrome origin and treatment of lymphocytic and granulocytic	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer 1966 Mar p 34-41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA polymerase, RNA-directed DNA polymerase 1972 Jan p 24-33 [1239] adenoviruses, herpes virus, virus disease, viral vaccines 1973 Oct p 26-33 degenerative diseases, immune system, slow virus infection, virus disease, kuru, scrapie, herpes virus 1974 Feb p 32-40 [1289] isolated in riuce 1949 May p 28 CANDU reactor: Canadian deuterium oxide reactor CANDU reactor, nuclear power, natural reactor, heavy-water reactor, fission reactor, CANDU system 1975 Oct p 17-27 Cannabis sativa, marijuana, drug abuse, consciousness, pharmacology, sociology 1969 Dec p 17-25 [524] cannibalism, Amerindian, Iroquois Confederacy, New World archeology,
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23–31 barge transport, technology history, transportation, in U S 1976 July p 116–124 canary, learning, 'unique stimulus' problem 1955 June p 72–79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111–118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40–43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental and behavioral factors 1949 Jan p 11–15 embryonic development, dedifferentiation of tissue cells, regeneration 1949 Dec p 22–24 gene mutation, evidence for genetic factor in laboratory animals 1950 July p 44–47 crown gall, plant tissue culture 1952 June p 66–72 tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture uses of tissue culture 1956 Oct p 50–55 enzyme blood levels, myocardial infarction, hepatitis cancer diagnosis, leukemia, medical diagnosis, diagnosis by presence of abnormal enzymes 1961 Aug p 99–107 leukemia, leukocyte, chemotherapy, virus, ionizing radiation. Down's syndrome origin and treatment of lymphocytic and granulocytic leukemia	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer 1966 Mar p 34-41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA polymerase, RNA-directed DNA polymerase 1972 Jan p 24-33 [1239] adenoviruses, herpes virus, virus disease, viral vaccines 4973 Oct p 26-33 degenerative diseases, immune system, slow virus infection, virus disease, kuru, scrapie, herpes virus 1974 Feb p 32-40 [1289] isolated in muce 1949 May p 28 CANDU reactor: Canadian deuterium oxide reactor CANDU reactor, nuclear power, natural reactor, heavy-water reactor, fission reactor, CANDU system 1975 Oct p 17-27 Cannabis sativa, marijuana, drug abuse, consciousness, pharmacology, sociology 1969 Dec p 17-25 [524] cannibalism, Amerindian, Iroquois Confederacy, New World archeology, Onandaga tribe
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23–31 barge transport, technology history, transportation, in U S 1976 July p 116–124 canary, learning, 'unique stimulus' problem 1955 June p 72–79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111–118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40–43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental and behavioral factors 1949 Jan p 11–15 embryonic development, dedifferentiation of tissue cells, regeneration 1949 Dec p 22–24 gene mutation, evidence for genetic factor in laboratory animals 1950 July p 44–47 crown gall, plant tissue culture 1952 June p 66–72 tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture 1956 Oct p 50–55 enzyme blood levels, myocardial infarction, hepatitis cancer diagnosis, leukemia, medical diagnosis, diagnosis by presence of abnormal enzymes 1961 Aug p 99–107 leukemia, leukocyte, chemotherapy, virus, ionizing radiation. Down's syndrome origin and treatment of lymphocytic and granulocytic leukemia 1964 May p 88–96 multipotential cells, tumor, teratoma, gene expression, plant cell	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer 1966 Mar p 34-41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA polymerase, RNA-directed DNA polymerase 1972 Jan p 24-33 [1239] adenoviruses, herpes virus, virus disease, viral vaccines 4973 Oct p 26-33 degenerative diseases, immune system, slow virus infection, virus disease, kuru, scrapie, herpes virus 1974 Feb p 32-40 [1289] isolated in muce 1949 May p 28 CANDU reactor: Canadian deuterium oxide reactor CANDU reactor, nuclear power, natural reactor, heavy-water reactor, fission reactor, CANDU system 1975 Oct p 17-27 Cannabis sativa, marijuana, drug abuse, consciousness, pharmacology, sociology 1969 Dec p 17-25 [524] cannibalism, Amerindian, Iroquois Confederacy, New World archeology, Onandaga tribe
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23–31 barge transport, technology history, transportation, in U S 1976 July p 116–124 canary, learning, 'unique stimulus' problem 1955 June p 72–79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111–118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40–43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental and behavioral factors 1949 Jan p 11–15 embryonic development, dedifferentiation of tissue cells, regeneration 1949 Dec p 22–24 gene mutation, evidence for genetic factor in laboratory animals 1950 July p 44–47 crown gall, plant tissue culture 1952 June p 66–72 tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture 1956 Oct p 50–55 enzyme blood levels, myocardial infarction, hepatitis cancer diagnosis, leukemia, medical diagnosis, diagnosis by presence of abnormal enzymes 1961 Aug p 99–107 leukemia, leukocyte, chemotherapy, virus, ionizing radiation, Down's syndrome origin and treatment of lymphocytic and granulocytic leukemia 1964 May p 88–96 multipotential cells, tumor, teratoma, gene expression, plant cell inhibitions	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer 1966 Mar p 34-41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA polymerase, RNA-directed DNA polymerase 1972 Jan p 24-33 [1239] adenoviruses, herpes virus, virus disease, viral vaccines 4973 Oct p 26-33 degenerative diseases, immune system, slow virus infection, virus disease, kuru, scrapie, herpes virus 1974 Feb p 32-40 [1289] isolated in muce 1949 May p 28 CANDU reactor: Canadian deuterium oxide reactor CANDU reactor, nuclear power, natural reactor, heavy-water reactor, fission reactor, CANDU system 1975 Oct p 17-27 Cannabis saftiva, marijuana, drug abuse, consciousness, pharmacology, sociology 1969 Dec p 17-25 [524] cannibalism, Amerindian, Iroquois Confederacy, New World archeology, Onandaga tribe 1971 Feb p 32-42 [658] cantilever, wind bracing, skyscrapers, construction technology, Efffel
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23–31 barge transport, technology history, transportation, in U S 1976 July p 116–124 canary, learning, 'unique stimulus' problem 1955 June p 72–79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111–118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40–43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental and behavioral factors 1949 Jan p 11–15 embryonic development, dedifferentiation of tissue cells, regeneration 1949 Dec p 22–24 gene mutation, evidence for genetic factor in laboratory animals 1950 July p 44–47 crown gall, plant tissue culture 1952 June p 66–72 tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture 1956 Oct p 50–55 enzyme blood levels, myocardial infarction, hepatitis cancer diagnosis, leukemia, medical diagnosis, diagnosis by presence of abnormal enzymes 1961 Aug p 99–107 leukemia, leukocyte, chemotherapy, virus, ionizing radiation, Down's syndrome origin and treatment of lymphocytic and granulocytic leukemia 1964 May p 88–96 multipotential cells, tumor, teratoma, gene expression, plant cell inhibitions 1965 Nov p 75–83 [1024] ultraviolet radiation, melanocytes, suntanning, epidermis, skin, vitamin	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer 1966 Mar p 34-41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA polymerase, RNA-directed DNA polymerase 1972 Jan p 24-33 [1239] adenoviruses, herpes virus, virus disease, viral vaccines 4973 Oct p 26-33 degenerative diseases, immune system, slow virus infection, virus disease, kuru, scrapie, herpes virus 1974 Feb p 32-40 [1289] isolated in muce 1949 May p 28 CANDU reactor: Canadian deuterium oxide reactor CANDU reactor, nuclear power, natural reactor, heavy-water reactor, fission reactor, CANDU system 1975 Oct p 17-27 Cannabis sativa, marijuana, drug abuse, consciousness, pharmacology, sociology 1969 Dec p 17-25 [524] cannibalism, Amerindian, Iroquois Confederacy, New World archeology, Onandaga tribe 1971 Feb p 32-42 [658] cantilever, wind bracing, skyscrapers, construction technology, Eiffel Tower, truss bridge, steel frame construction, curtain wall
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23–31 barge transport, technology history, transportation, in U S 1976 July p 116–124 canary, learning, 'unique stimulus' problem 1955 June p 72–79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111–118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40–43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental and behavioral factors 1949 Jan p 11–15 embryonic development, dedifferentiation of tissue cells, regeneration 1949 Dec p 22–24 gene mutation, evidence for genetic factor in laboratory animals 1950 July p 44–47 crown gall, plant tissue culture 1952 June p 66–72 tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture 1956 Oct p 50–55 enzy me blood levels, myocardial infarction, hepatitis cancer diagnosis, leukemia, medical diagnosis, diagnosis by presence of abnormal enzymes 1961 Aug p 99–107 leukemia, leukocyte, chemotherapy, virus, ionizing radiation, Down's syndrome origin and treatment of lymphocytic and granulocytic leukemia 1964 May p 88–96 multipotential cells, tumor, teratoma, gene expression, plant cell inhibitions 1965 Nov p 75–83 [1024] ultraviolet radiation, melanocytes, suntanning, epidermis, skin, vitamin 1968 July p 38–46	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer 1966 Mar p 34-41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA polymerase, RNA-directed DNA polymerase 1972 Jan p 24-33 [1239] adenoviruses, herpes virus, virus disease, viral vaccines 1973 Oct p 26-33 degenerative diseases, immune system, slow virus infection, virus disease, kuru, scrapie, herpes virus 1974 Feb p 32-40 [1289] isolated in nuce 1949 May p 28 CANDU reactor: Canadian deutenum oxide reactor CANDU reactor, nuclear power, natural reactor, heavy-water reactor, fission reactor, CANDU system 1975 Oct p 17-27 Cannabis sativa, marijuana, drug abuse, consciousness, pharmacology, sociology 1969 Dec p 17-25 [524] cannibalism, Amerindian, Iroquois Confederacy, New World archeology, Onandaga tribe 1971 Feb p 32-42 [658] cantilever, wind bracing, skyscrapers, construction technology, Eiffel Tower, truss bridge, steel frame construction, curtain wall
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23–31 barge transport, technology history, transportation, in U S 1976 July p 116–124 canary, learning, 'unique stimulus' problem 1955 June p 72–79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111–118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40–43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental and behavioral factors 1949 Jan p 11–15 embryonic development, dedifferentiation of tissue cells, regeneration 1949 Dec p 22–24 gene mutation, evidence for genetic factor in laboratory animals 1950 July p 44–47 crown gall, plant tissue culture 1952 June p 66–72 tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture 1956 Oct p 50–55 enzyme blood levels, myocardial infarction, hepatitis cancer diagnosis, leukemia, medical diagnosis, diagnosis by presence of abnormal enzymes 1961 Aug p 99–107 leukemia, leukocyte, chemotherapy, virus, ionizing radiation, Down's syndrome origin and treatment of lymphocytic and granulocytic leukemia 1964 May p 88–96 multipotential cells, tumor, teratoma, gene expression, plant cell inhibitions 1965 Nov p 75–83 [1024] ultraviolet radiation, melanocytes, suntanning, epidermis, skin, vitamin D 1968 July p 38–46 angiogenesis, avascular tumors, tumor inhibition, tumor	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer 1966 Mar p 34-41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA polymerase, RNA-directed DNA polymerase 1972 Jan p 24-33 [1239] adenoviruses, herpes virus, virus disease, viral vaccines 4973 Oct p 26-33 degenerative diseases, immune system, slow virus infection, virus disease, kuru, scrapie, herpes virus 1974 Feb p 32-40 [1289] isolated in nuce 1949 May p 28 CANDU reactor: Canadian deutenum oxide reactor CANDU reactor: Canadian deutenum oxide reactor CANDU reactor, nuclear power, natural reactor, heavy-water reactor, fission reactor, CANDU system 1975 Oct p 17-27 Cannabis sativa, marijuana, drug abuse, consciousness, pharmacology, sociology 1969 Dec p 17-25 [524] cannibalism, Amerindian, Iroquois Confederacy, New World archeology, Onandaga tribe 1971 Feb p 32-42 [658] cantilever, wind bracing, skyscrapers, construction technology, Eiffel Tower, truss bridge, steel frame construction, curtain wall 1974 Feb p 92-105
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23–31 barge transport, technology history, transportation, in U S 1976 July p 116–124 canary, learning, 'unique stimulus' problem 1955 June p 72–79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111–118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40–43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental and behavioral factors 1949 Jan p 11–15 embryonic development, dedifferentiation of tissue cells, regeneration 1949 Dec p 22–24 gene mutation, evidence for genetic factor in laboratory animals 1950 July p 44–47 crown gall, plant tissue culture 1952 June p 66–72 tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture 1956 Oct p 50–55 enzyme blood levels, myocardial infarction, hepatitis cancer diagnosis, leukemia, medical diagnosis, diagnosis by presence of abnormal enzymes 1961 Aug p 99–107 leukemia, leukocyte, chemotherapy, virus, ionizing radiation, Down's syndrome origin and treatment of lymphocytic and granulocytic leukemia 1964 May p 88–96 multipotential cells, tumor, teratoma, gene expression, plant cell inhibitions 1965 Nov p 75–83 [1024] ultraviolet radiation, melanocytes, suntanning, epidermis, skin, vitamin D 1968 July p 38–46 angiogenesis, avascular tumors, tumor inhibition, tumor	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer 1966 Mar p 34-41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA polymerase, RNA-directed DNA polymerase 1972 Jan p 24-33 [1239] adenoviruses, herpes virus, virus disease, viral vaccines 4973 Oct p 26-33 degenerative diseases, immune system, slow virus infection, virus disease, kuru, scrapie, herpes virus 1974 Feb p 32-40 [1289] isolated in muce 1949 May p 28 CANDU reactor; Canadian deuterium oxide reactor CANDU reactor, nuclear power, natural reactor, heavy-water reactor, fission reactor, CANDU system 1975 Oct p 17-27 Cannabis sativa, marijuana, drug abuse, consciousness, pharmacology, sociology 1969 Dec p 17-25 [524] cannibalism, Amerindian, Iroquois Confederacy, New World archeology, Onandaga tribe 1971 Feb p 32-42 [658] cantilever, wind bracing, skyscrapers, construction technology, Eiffel Tower, truss bridge, steel frame construction, curtain wall 1974 Feb p 92-105 Cantor, infinity, set theory, equivalent sets, cardinal number
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan Pland P	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer 1966 Mar p 34-41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA polymerase, RNA-directed DNA polymerase 1972 Jan p 24-33 [1239] adenoviruses, herpes virus, virus disease, viral vaccines 1973 Oct p 26-33 degenerative diseases, immune system, slow virus infection, virus disease, kuru, scrapie, herpes virus 1974 Feb p 32-40 [1289] isolated in muce 1949 May p 28 CANDU reactor: Canadian deuterium oxide reactor CANDU reactor, nuclear power, natural reactor, heavy-water reactor, fission reactor, CANDU system 1975 Oct p 17-27 Cannabis sativa, marijuana, drug abuse, consciousness, pharmacology, sociology 1969 Dec p 17-25 [524] cannibalism, Amerindian, Iroquois Confederacy, New World archeology, Onandaga tribe 1971 Feb p 32-42 [658] cantilever, wind bracing, skyscrapers, construction technology, Eiffel Tower, truss bridge, steel frame construction, curtain wall 1974 Feb p 92-105 Cantor, infinity, set theory, equivalent sets, cardinal number 1952 Nov p 76-84 mathematics set theory, non-Cantorian sets. Russell's paradox, non-
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan Pland P	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer 1966 Mar p 34-41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA polymerase, RNA-directed DNA polymerase 1972 Jan p 24-33 [1239] adenoviruses, herpes virus, virus disease, viral vaccines 1973 Oct p 26-33 degenerative diseases, immune system, slow virus infection, virus disease, kuru, scrapie, herpes virus 1974 Feb p 32-40 [1289] isolated in nuce 1949 May p 28 CANDU reactor: Canadian deuterium oxide reactor CANDU reactor: Canadian deuterium oxide reactor CANDU reactor, nuclear power, natural reactor, heavy-water reactor, fission reactor, CANDU system 1975 Oct p 17-27 Cannabis sativa, marijuana, drug abuse, consciousness, pharmacology, sociology 1969 Dec p 17-25 [524] cannibalism, Amerindian, Iroquois Confederacy, New World archeology, Onandaga tribe 1971 Feb p 32-42 [658] cantilever, wind bracing, skyscrapers, construction technology, Eiffel Tower, truss bridge, steel frame construction, curtain wall 1974 Feb p 92-105 Cantor, infinity, set theory, equivalent sets, cardinal number 1952 Nov p 76-84 mathematics set theory, non-Cantorian sets. Russell's paradox, non- Euclidian geometry, axiom of choice
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23–31 barge transport, technology history, transportation, in U S 1976 July p 116–124 canary, learning, 'unique stimulus' problem 1955 June p 72–79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111–118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40–43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental and behavioral factors 1949 Jan p 11–15 embryonic development, dedifferentiation of tissue cells, regeneration 1949 Dec p 22–24 gene mutation, evidence for genetic factor in laboratory animals 1950 July p 44–47 crown gall, plant tissue culture 1952 June p 66–72 tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture 1956 Oct p 50–55 enzy me blood levels, myocardial infarction, hepatitis cancer diagnosis, leukemia, medical diagnosis, diagnosis by presence of abnormal enzy mes 1961 Aug p 99–107 leukemia, leukocyte, chemotherapy, virus, ionizing radiation, Down's syndrome origin and treatment of lymphocytic and granulocytic leukemia 1964 May p 88–96 multipotential cells, tumor, teratoma, gene expression, plant cell inhibitions 1965 Nov p 75–83 [1024] ultraviolet radiation, melanocytes, suntanning, epidermis, skin, vitamin D 1968 July p 38–46 angiogenesis, avascular tumors, tumor inhibition, tumor vascularization tumor angiogenesis factor (TAF) antibodies, cell-surface antigens, cancer immunology	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer 1966 Mar p 34-41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA polymerase, RNA-directed DNA polymerase 1972 Jan p 24-33 [1239] adenoviruses, herpes virus, virus disease, viral vaccines 4973 Oct p 26-33 degenerative diseases, immune system, slow virus infection, virus disease, kuru, scrapie, herpes virus 1974 Feb p 32-40 [1289] isolated in muce 1949 May p 28 CANDU reactor: Canadian deuterium oxide reactor CANDU reactor, nuclear power, natural reactor, heavy-water reactor, fission reactor, CANDU system 1975 Oct p 17-27 Cannabis sativa, marijuana, drug abuse, consciousness, pharmacology, sociology 1969 Dec p 17-25 [524] cannibalism, Amerindian, Iroquois Confederacy, New World archeology, Onandaga tribe 1971 Feb p 32-42 [658] cantilever, wind bracing, skyscrapers, construction technology, Eiffel Tower, truss bridge, steel frame construction, curtain wall 1974 Feb p 92-105 Cantor, infinity, set theory, equivalent sets, cardinal number 1952 Nov p 76-84 mathematics set theory, non-Cantorian sets. Russell's paradox, non- Euclidian geometry, axiom of choice 1967 Dec p 104-116 Canyon Diablo meteorite, diamond, meteorites, iron-nickel phases, shock
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23–31 barge transport, technology history, transportation, in US 1976 July p 116–124 canary, learning, 'unique stimulus' problem 1955 June p 72–79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111–118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40–43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental and behavioral factors 1949 Jan p 11–15 embryonic development, dedifferentiation of tissue cells, regeneration 1949 Dec p 22–24 gene mutation, evidence for genetic factor in laboratory animals 1950 July p 44–47 crown gall, plant tissue culture 1952 June p 66–72 tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture drug research, clone, somatic cells, technique and uses of tissue culture medical diagnosis, diagnosis by presence of abnormal enzymes 1961 Aug p 99–107 leukemia, leukocyte, chemotherapy, virus, ionizing radiation. Down's syndrome origin and treatment of lymphocytic and granulocytic leukemia 1964 May p 88–96 multipotential cells, tumor, teratoma, gene expression, plant cell inhibitions 1965 Nov p 75–83 [1024] ultraviolet radiation, melanocytes, suntanning, epidermis, skin, vitamin D 1968 July p 38–46 angiogenesis, avascular tumors, tumor inhibition, tumor vascularization tumor angiogenesis factor (TAF) 1976 May p 58–73 [1339] antibodies, cell-surface antigens, cancer immunology, immunopotentiators immune response, tumor-specific antigens	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer 1966 Mar p 34-41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA polymerase, RNA-directed DNA polymerase 1972 Jan p 24-33 [1239] adenoviruses, herpes virus, virus disease, viral vaccines 1973 Oct p 26-33 degenerative diseases, immune system, slow virus infection, virus disease, kuru, scrapie, herpes virus 1974 Feb p 32-40 [1289] isolated in nuce 1949 May p 28 CANDU reactor: Canadian deuterium oxide reactor CANDU reactor: Canadian deuterium oxide reactor CANDU reactor, nuclear power, natural reactor, heavy-water reactor, fission reactor, CANDU system 1975 Oct p 17-27 Cannabis sativa, marijuana, drug abuse, consciousness, pharmacology, sociology 1969 Dec p 17-25 [524] cannibalism, Amerindian, Iroquois Confederacy, New World archeology, Onandaga tribe 1971 Feb p 32-42 [658] cantilever, wind bracing, skyscrapers, construction technology, Eiffel Tower, truss bridge, steel frame construction, curtain wall 1974 Feb p 92-105 Cantor, infinity, set theory, equivalent sets, cardinal number 1952 Nov p 76-84 mathematics set theory, non-Cantorian sets. Russell's paradox, non- Euclidian geometry, axiom of choice 1967 Dec p 104-116 Canyon Diablo meteorite, diamond, meteorites, iron-inckel phases, shock hypothesis, asteroids, origin of meteorites
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23-31 barge transport, technology history, transportation, in U S 1976 July p 116-124 canary, learning, 'unique stimulus' problem 1955 June p 72-79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111-118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40-43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental and behavioral factors 1949 Jan p 11-15 embryonic development, dedifferentiation of tissue cells, regeneration 1949 Dec p 22-24 gene mutation, evidence for genetic factor in laboratory animals 1950 July p 44-47 crown gall, plant tissue culture 1952 June p 66-72 tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture and treatment of lymphocytic and granulocytic leukemia, leukocyte, chemotherapy, virus, ionizing radiation, Down's syndrome origin and treatment of lymphocytic and granulocytic leukemia leukemia leukocyte, chemotherapy, virus, ionizing radiation, Down's syndrome origin and treatment of lymphocytic and granulocytic leukemia leukemia leukocyte, chemotherapy, virus, ionizing radiation, Down's syndrome origin and treatment of lymphocytic and granulocytic leukemia, leukocyte, chemotherapy, virus, ionizing radiation, pown's syndrom	of chelates asparaginase, leukemia interferon 1968 Aug p 34-40 interferon 1969 Oct p 50 cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous- associated virus' capacitates 'defective' Rous sarcoma virus 1964 June p 46-52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer 1966 Mar p 34-41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA polymerase, RNA-directed DNA polymerase 1972 Jan p 24-33 [1239] adenoviruses, herpes virus, virus disease, viral vaccines 1973 Oct p 26-33 degenerative diseases, immune system, slow virus infection, virus disease, kuru, scrapie, herpes virus 1974 Feb p 32-40 [1289] isolated in ruce 1949 May p 28 CANDU reactor: Canadian deuterium oxide reactor CANDU reactor: Canadian deuterium oxide reactor CANDU reactor, nuclear power, natural reactor, heavy-water reactor, fission reactor, CANDU system 1975 Oct p 17-27 Cannabis sativa, marijuana, drug abuse, consciousness, pharmacology, sociology 1969 Dec p 17-25 [524] cannibalism, Amerindian, Iroquois Confederacy, New World archeology, Onandaga tribe 1971 Feb p 32-42 [658] cantilever, wind bracing, skyscrapers, construction technology, Eiffel Tower, truss bridge, steel frame construction, curtain wall 1974 Feb p 92-105 Cantor, infinity, set theory, equivalent sets, cardinal number 1952 Nov p 76-84 mathematics set theory, non-Cantorian sets. Russell's paradox, non- Euchdian geometry, axiom of choice 1967 Dec p 104-116 Canyon Diablo meteorite, diamond, meteorites, iron-nickel phases, shock hypothesis, asteroids, origin of meteorites 1965 Oct p 26-36 capillary action, heat pipes, latent heat, vaporization, heat transfer, heat
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23–31 barge transport, technology history, transportation, in US 1976 July p 116–124 canary, learning, 'unique stimulus' problem 1955 June p 72–79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111–118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40–43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental and behavioral factors 1949 Jan p 11–15 embryonic development, dedifferentiation of tissue cells, regeneration 1949 Dec p 22–24 gene mutation, evidence for genetic factor in laboratory animals 1950 July p 44–47 crown gall, plant tissue culture 1950 July p 44–47 crown gall, plant tissue culture 1950 Oct p 50–55 enzyme blood levels, myocardial infarction, hepatitis cancer diagnosis, leukemia, medical diagnosis, diagnosis by presence of abnormal enzymes 1961 Aug p 99–107 leukemia, leukocyte, chemotherapy, virus, ionizing radiation. Down's syndrome origin and treatment of lymphocytic and granulocytic leukemia 1964 May p 88–96 multipotential cells, tumor, teratoma, gene expression, plant cell inhibitions 1965 Nov p 75–83 [1024] ultraviolet radiation, melanocytes, suntanning, epidermis, skin, vitamin D 1968 July p 38–46 angiogenesis, avascular tumors, tumor inhibition, tumor vascularization tumor angiogenesis factor (TAF) 1976 May p 58–73 [1339] antibodies, cell-surface antigens, cancer immunology, lectins proteins leukemia transplantation antigens 1977 May p 62–79 [1358] agglutination response, cell membrane, immunology, lectins proteins	of chelates asparaginase, leukemia interferon interfero
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23-31 barge transport, technology history, transportation, in U S 1976 July p 116-124 canary, learning, 'unique stimulus' problem 1955 June p 72-79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111-118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40-43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental and behavioral factors 1949 Jan p 11-15 embryonic development, dedifferentiation of tissue cells, regeneration 1949 Dec p 22-24 gene mutation, evidence for genetic factor in laboratory animals 1950 July p 44-47 crown gall, plant tissue culture 1952 June p 66-72 tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture, drug research, clone, somatic cells, technique and uses of tissue culture and treatment of lymphocytic and granulocytic leukemia, leukocyte, chemotherapy, virus, ionizing radiation, Down's syndrome origin and treatment of lymphocytic and granulocytic leukemia leukemia leukocyte, chemotherapy, virus, ionizing radiation, Down's syndrome origin and treatment of lymphocytic and granulocytic leukemia leukemia leukocyte, chemotherapy, virus, ionizing radiation, Down's syndrome origin and treatment of lymphocytic and granulocytic leukemia, leukocyte, chemotherapy, virus, ionizing radiation, pown's syndrom	of chelates asparagnase, leukemia interferon cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus Rous-associated virus' capacitates 'defective' Rous sarcoma virus in 1964 June p 46–52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus associated virus' capacitates 'defective' Rous sarcoma virus in 1964 June p 46–52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer in 1966 Mar p 34–41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA poly merase, RNA-directed DNA poly merase in 1972 Jan p 24–33 [1239] adenoviruses, herpes virus, virus disease, viral vaccines degenerative diseases, immune system, slow virus infection, virus disease, kuru, scrapie, herpes virus in 1974 Feb p 32–40 [1289] isolated in nuce CANDU reactor: Canadian deuterium oxide reactor CANDU reactor, nuclear power, natural reactor, heavy-water reactor, fission reactor, CANDU system in 1975 Oct p 17–27 Cannabis sativa, marijuana, drug abuse, consciousness, pharmacology, sociology in 1969 Dec p 17–25 [524] cantillever, wind bracing, skyscrapers, construction technology, Effel Tower, truss bridge, steel frame construction, curtain wall in 1974 Feb p 92–105 Cantor, infinity, set theory, equivalent sets, cardinal number in 1952 Nov p 76–84 mathematics set theory, non-Cantorian sets, Russell's paradox, non-Euchdian geometry, axiom of choice in 1965 Oct p 26–36 capillary action, heat pipes, latent heat, vaporization, heat transfer, heat radiator capillary bed, frostbite, rapid thawing prescribed
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23–31 barge transport, technology history, transportation, in US 1976 July p 116–124 canary, learning, 'unique stimulus' problem 1955 June p 72–79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111–118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40–43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental and behavioral factors 1949 Jan p 11–15 embryonic development, dedifferentiation of tissue cells, regeneration 1949 Dec p 22–24 gene mutation, evidence for genetic factor in laboratory animals 1950 July p 44–47 crown gall, plant tissue culture 1950 July p 44–47 crown gall, plant tissue culture 1950 Oct p 50–55 enzyme blood levels, myocardial infarction, hepatitis cancer diagnosis, leukemia, medical diagnosis, diagnosis by presence of abnormal enzymes 1961 Aug p 99–107 leukemia, leukocyte, chemotherapy, virus, ionizing radiation. Down's syndrome origin and treatment of lymphocytic and granulocytic leukemia 1964 May p 88–96 multipotential cells, tumor, teratoma, gene expression, plant cell inhibitions 1965 Nov p 75–83 [1024] ultraviolet radiation, melanocytes, suntanning, epidermis, skin, vitamin D 1968 July p 38–46 angiogenesis, avascular tumors, tumor inhibition, tumor vascularization tumor angiogenesis factor (TAF) 1976 May p 58–73 [1339] antibodies, cell-surface antigens, cancer immunology, lectins proteins leukemia transplantation antigens 1977 May p 62–79 [1358] agglutination response, cell membrane, immunology, lectins proteins	of chelates asparagnase, leukemia interferon cancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus Rous-associated virus' capacitates 'defective' Rous sarcoma virus in 1964 June p 46–52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus associated virus' capacitates 'defective' Rous sarcoma virus in 1964 June p 46–52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer in 1966 Mar p 34–41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA poly merase, RNA-directed DNA poly merase in 1972 Jan p 24–33 [1239] adenoviruses, herpes virus, virus disease, viral vaccines degenerative diseases, immune system, slow virus infection, virus disease, kuru, scrapie, herpes virus in 1974 Feb p 32–40 [1289] isolated in nuce CANDU reactor: Canadian deuterium oxide reactor CANDU reactor, nuclear power, natural reactor, heavy-water reactor, fission reactor, CANDU system in 1975 Oct p 17–27 Cannabis sativa, marijuana, drug abuse, consciousness, pharmacology, sociology in 1969 Dec p 17–25 [524] cantillever, wind bracing, skyscrapers, construction technology, Effel Tower, truss bridge, steel frame construction, curtain wall in 1974 Feb p 92–105 Cantor, infinity, set theory, equivalent sets, cardinal number in 1952 Nov p 76–84 mathematics set theory, non-Cantorian sets, Russell's paradox, non-Euchdian geometry, axiom of choice in 1965 Oct p 26–36 capillary action, heat pipes, latent heat, vaporization, heat transfer, heat radiator capillary bed, frostbite, rapid thawing prescribed
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23–31 barge transport, technology history, transportation, in US 1976 July p 116–124 canary, learning, 'unique stimulus' problem 1955 June p 72–79 Canary Islands, language, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111–118 cancer, tissue grafts, tissue culture, medical diagnosis, cancer tissue grows in heterologous graft 1948 Dec p 40–43 cancer epidemiology, carcinogenesis, occupational cancer, cancer prevention, increased incidence of cancer sought in environmental and behavioral factors 1949 Jan p 11–15 embryonic development, dedifferentiation of tissue cells, regeneration 1949 Dec p 22–24 gene mutation, evidence for genetic factor in laboratory animals 1950 July p 44–47 crown gall, plant tissue culture 1950 July p 44–47 crown gall, plant tissue culture 1950 Oct p 50–55 enzyme blood levels, myocardial infarction, hepatitis cancer diagnosis, leukemia, medical diagnosis, diagnosis by presence of abnormal enzymes 1961 Aug p 99–107 leukemia, leukocyte, chemotherapy, virus, ionizing radiation. Down's syndrome origin and treatment of lymphocytic and granulocytic leukemia 1964 May p 88–96 multipotential cells, tumor, teratoma, gene expression, plant cell inhibitions 1965 Nov p 75–83 [1024] ultraviolet radiation, melanocytes, suntanning, epidermis, skin, vitamin D 1968 July p 38–46 angiogenesis, avascular tumors, tumor inhibition, tumor vascularization tumor angiogenesis factor (TAF) 1976 May p 58–73 [1339] antibodies, cell-surface antigens, cancer immunology, lectins proteins leukemia transplantation antigens 1977 May p 62–79 [1358] agglutination response, cell membrane, immunology, lectins proteins	of chelates asparaginase, leukemia interferon ancer virus, cancer virus, Rous sarcoma virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus l964 June p 46–52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus associated virus' capacitates 'defective' Rous sarcoma virus l964 June p 46–52 [185] Rous sarcoma virus, cancer virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus l964 June p 46–52 [185] adenoviruses, SV40 virus, DNA virus, DNA recombination, gene transformation, tumor-virus antigen, virus etiology of cancer l966 Mar p 34–41 DNA, gene mutation, RNA-DNA 'reverse' transfer, DNA poly merase, RNA-directed DNA poly merase l972 Jan p 24–33 [1239] adenoviruses, herpes virus, virus disease, viral vaccines l973 Oct p 26–33 degenerative diseases, immune system, slow virus infection, virus disease, kuru, scrapie, herpes virus l974 Feb p 32–40 [1289] isolated in nuce l949 May p 28 CANDU reactor: Canadian deuterium oxide reactor CANDU reactor, nuclear power, natural reactor, heavy-water reactor, fission reactor, CANDU system l975 Oct p 17–27 Cannabis sativa, marijuana, drug abuse, consciousness, pharmacology, sociology l969 Dec p 17–25 [524] cannibalism, Amerindian, Iroquois Confederacy, New World archeology, Onandaga tribe l971 Feb p 32–42 [658] cantilever, wind bracing, skyscrapers, construction technology, Eiffel Tower, truss bridge, steel frame construction, curtain wall l974 Feb p 92–105 Cantor, infinity, set theory, equivalent sets, cardinal number l952 Nov p 76–84 mathematics set theory, non-Cantorian sets, Russell's paradox, non-Euclidian geometry, axiom of choice l967 Dec p 104–116 Canyon Diablo meteorite, diamond, meteorites, iron-nickel phasses, shock hypothesis, asteroids, origin of meteorites, iron-nickel phasses, shock hypothesis, asteroids, origin of meteorites, iron-nickel phasses, shock radiator l968 May p 38–46

blood circulation, mesentery, arteriole, venule, cardiovascular system	Chandrites meteorites colores stam
1959 Ian n 54-60	chondrites, meteorites, solar system, primordial dust cloud
capital cost, nuclear power, cost assessment, energy economics,	1913 FED p 30-38
competitive with fossil fuels 1951 Jan n 32-38	Orguei hoax 1965 Jan p 52 carbonate, sea-floor spreading, volcanoes, rain, sea water composition,
productivity, mechanization, labor cost 1955 July p. 33-35	geochemical cycle, salinity, hydrologic cycle, why the sea is salt
capital-output ratio, productivity, labor force, automatic control.	1070 No 104 115 10201
economic and social impact of automatic control	carbonated water, soft-drink evolution 1970 Nov p 104-115 [839]
1952 Sept p 150-160	Carboniferous period, coal, fossil, flora, Mississippian period,
capital punishment, U.N. death-penalty report 1973 July p. 48	Pennsylvanian period, tropical flora, deposition of coal
captivity, animal behavior, zoos 1954 May p. 76-80	1948 July p 46-51
capybara, mainutrition, food supply, human population, hunger, human	carboxylation cycle, ATP, mineral cycles, biosphere, phosphorus cycle,
nutrition, Incaparina, cland, manatec, mussels, developing countries,	sulfur cycle, sulfur bacteria, entrophication, mineral cycles in the
unorthodox food sources 1967 Feb p 27-35 [1068]	biosphere 1970 Sept p 148-158 [1195]
carbenes, carbon chemistry, chemical reaction, molecular orbitals,	carcinogenesis, cancer, cancer epidemiology, occupational cancer, cancer
reactive intermediates 1976 Feb p 101-113	prevention, increased incidence of cancer sought in environmental
carbohydrate, glycoprotein synthesis, Golgi apparatus, goblet cells,	and behavioral factors 1949 Jan p 11-15
mucus, saccules 1969 Feb p 100-107 [1134]	cancer therapy, radiation damage, nitrogen mustard, mutation, nuclear
brain function, neurotransmitters, scrotonin, human nutrition,	medicine, chemical imitation of radiation injury
tryptophan, feedback 1974 Feb p 84-91 [1291]	1960 Jan p 99-108
earbon, silicon, polymers, silicon, plastics, silicon in place of carbon	polyoma virus, recombinant DNA, virus disease, 'temperate' infection,
1948 Oct p 50-53	genetic transduction, viral induced malignancy
polyethylene, spherulites, plastics, solid state physics, crystallography	1960 Nov p 63-71 [77]
1964 Nov p 80-94	eigarette smoking, tobacco, human physiology, lung cancer, coronary
in vitreous state 1968 Feb p 54	disease, effects of smoking 1962 July p 39-51
carbon 14, radiocarbon dating, paleobotany, archeological dating, pollen	cancer epidemiology, environmental carcinogens, immune response,
analysis 1952 Feb p 24-28	gene mutation, virus disease, cancer prevention
atomic bomb test, fallout, C14 fallout 1959 Jan p 62	1975 Nov p 64-78 [1330]
carbon 14 abundance, climate, ice ages, Maunder minimum, solar physics,	aflatoxin, Aspergilles flavus 1964 Nov p 60
sunspots, dendrochronology 1977 May p 80–92 [925]	virus disease, integrated DNA 1968 Nov p 56
carbon 14 dating, archeological dating, European prehistory,	cardiac arrhythmia, heart, muscle contraction, coronary occlusion, cardiac
dendrochronology 1971 Oct p 63-72 [672]	pacemaker, operation of cardiac pump 1957 May p 74-87 [62]
bristlecone pine, dating technique 1970 July p 52	intensive care, coronary care unit, fibrillation, coronary occlusion,
carbon chemistry, Apollo samples, moon, cosmology, solar wind	electrocardiography, nerve conduction, heart infarct
1972 Oct p 80-90	1968 July p 19–27
benzene, chemical accelerators, origins of life, high-energy carbon	cardiac 'conduction bundle', cardiology, electrocardiography, electrical
reactions 1975 Jan p 72-79	events in the heart 1961 Nov p 132-141
carbenes, chemical reaction, molecular orbitals reactive intermediates	cardiac disease, see coronary disease, cardiovascular disease and the like
1976 Feb p 101-113	cardiac function, hagfish, comparative psychology, cyclosomes, knot-tying
carbon cycle, Sun, thermonuclear reaction, sunspots, solar spectrum,	fish, hermaphrodite 1966 Feb p 82-90 [1035]
nearest star 1948 Nov p 26-39	cardiac hormone, cats 1968 Mar p 54
thermonuclear reaction, proton-proton interaction, stellar energy	cardiac insufficiency, digitalis, foxglove, heart physiology, dropsy, digitoxin, history of digitalis 1965 June p 110-119
1950 Jan p 42-45	digitoxin, history of digitalis 1965 June p 110-119 cardiac pacemaker, cardiac arrhythmia, heart, muscle contraction,
calcium carbonate, sedimentary rock, photosynthesis, fossil fuel	coronary occlusion, operation of cardiac pump
combustion, biosphere, atmosphere, carbon dioxide	1957 May p 74-87 [62]
1970 Sept p 125–132 [1193]	atrioventricular node, heart contraction, heart rate, sinus node
carbon dioxide, photosynthesis, chlorophyll, water, tracer experiments 1948 Aug p 24-35	1967 Mar p 32-37 [1067]
	interference from electromagnetic radiation 1971 June p 59
laser, infrared radiation, nitrogen, gas laser, physics of carbon dioxide	cardiac prostheses, cardiac surgery, heart-lung machine, Fallot tetralogy
laser lung, gill, oxygen transfer, gas exchange, water-breathing by mammals,	patent ductus arteriosus, technology and technique of open-heart
breathing, animal experiments in water-breathing	surgery 1960 Feb p 76-90
1968 Aug p 00-74 [1123]	cardine surgery, cardiac prostheses, heart-lung machine, Fallot tetralogy
calcium carbonate, carbon cycle, sedimentary rock, photosynthesis,	patent ductus arteriosus, technology and technique of open-heart
formal final combustion, biosphere, almosphere	surgery 1960 Feb p 76–90
1970 Sept p 123-132 (1193)	artificial aortic valve 1962 Jan p 68 see also cardiovascular surgery, heart surgery
energy demand, thermal pollution, Industrial Revolution, biosphere,	cardinal number, infinity, set theory, equivalent sets, Cantor
	1952 Nov p 76–84
modification of natural cycles by man 1970 Sept P 174-170 [1177]	cardinal numbers, child development, mathematics education,
neuston, marine life, microlayer oceanography, ocean surface,	mathematics history, number concepts, ordinal numbers
	1973 Mar p 101-109
carbon dioxide 'window', climate, meteorology, air ponunon, rossi 121,	cardiogram, whale 1952 Oct p 68-70
	cardiology, Fallot tetralogy ductus arteriosus, cardiovascular surgery
wind, solar radiation, energy cycle, biosphere, albedo, atmospheric circulation, chimate, ocean circulation, terrestrial radiation, Earth 1970 Sept. p. 54–63 [1189]	1950 Jan p 14-17
	Starling, 'Law of the Heart', biography of Ernest Starling
energy cycle	1951 Oct p 56-61 sound spectrography, heart, heart sounds electronic analysis of heart
temperature of Earth, human activity and climatic change	1000 100
temperature of Earth, human activity and chimaton p 32-42 [894]	heart metabolism, Starling, 'Law of the Heart', venous catheter study
etenosphere chimate, hiomass, ocean sediments, humus, 'greenhouse	1957 Feb v 50-54
atmosphere, chmate, biomass, ocean sediments, and p 34-43 [1376] effect', threat of 'greenhouse effect' 1978 Jan p 34-43 [1376]	medical diagnosis, Newton's third law, ballistocardiography
	1958 Feb n 89-95
Earth heating up? carbon phases, synthetic diamonds, high pressure, thermodynamics, 1955 Nov p 42-46	electrocardiography, cardiac 'conduction bundle', electrical events in
	the heart 1961 Nov p 132-141
carbon-phosphorus bonding, phosphorus biochemistry 1969 June p 58	stethoscopic catheter 1956 July p 57
carbonaceous chonomies, chemical a state of the state of	reserpine 1938 Oct p 36 heart disease hereditary not dietary 1958 Nov p 56
meteoritic hy drocarbons, Oparin-Haldane hypothesis 1972 June p 38-46 [902]	heart disease netering.

ardiovascular disease, stress, psychosomatic illness, alarm reaction, kidney disorder, adrenal gland 1949 Mar p 20-23 [4]	cassava, manioc, yield tripled by first systematic study 1976 Sept p 68 Cassiopeia, radio star, Crab Nebula, supernovae, galactic collision, with
artery prostheses, vascular surgery, atherosclerosis, repair of vascular	200 radio stars counted, some speculation on their nature
disease damage 1961 Apr p 88–104 atherosclerosis, human nutrition, arteries, epidemiology, cholesterol,	l953 Jan p 17-21 universe, radio galaxies, Cygnus A, red shift, Crab Nebula, colliding
coronary occlusion, diet, lipids, plaque, artery wall	galaxies 1956 Sept p 204–220
1966 Aug p 48-56 cardiovascular surgery, cardiology, Fallot tetralogy, ductus arteriosus	caste, shantytowns, Calcutta, cities, urbanization, housing, poverty, traffic, Calcutta, a city of the poor 1965 Sept p 90-102
1950 Jan p 14–17	class discrimination, Harijans, untouchables, Hinduism, India, civil
vascular surgery, surgical stapler, stapling technic for joining vessels 1962 Oct p 48-56	rights 1965 Dec p 13-17 castle, architectural engineering, war, Norman invasion, English castles,
cardiovascular system, shock, traumatic shock, capillary bed, electrolyte	A D 1066 1958 Mar p 42–48
balance, blood transfusion 1952 Dec p 62–68	Mycenaean civilization, nuraghi, Classical archeology, building construction, 1000 BC proto-castles in Sardinia 1959 Dec p 62-69
capillary bed, blood circulation, mesentery, arteriole, venule 1959 Jan p 54-60	cat brain, dreams, sleep research, electroencephalography, reticular
cargo cult, Christianity, religion, cultural anthropology, Melanesian cargo	formation, brain waves, paradoxical sleep, REM sleep, the states of
cult 1959 May p 117-125 cargo handling, shipping, containerization, automatic control, loading, air	sleep 1967 Feb p 62-72 [504] cat color, genetic variation, human migration, gene mutation, population
transport 1968 Oct p 80–88	genetics, cline maps, Hardy-Weinberg equilibrium
caribou, cold adaptation, rodent, moose, polar ecology, animal adaptation to Arctic 1960 Jan p 60-68	1977 Nov p 100–107 [1370] CAT scan: computer assisted tomography
caries, dentistry, bacteriology, fluoridation, new theory of tooth decay	CAT scan, computer algorithms, computer-assisted imaging, image
1948 Oct p 20-23 dentistry, tooth enamel, bacteriology, causes of tooth decay	reconstruction, computer graphics, medical care, tomography 1975 Oct p 56-68
1957 Dec p 109–116	catalysis, enzymes, digestion, respiration, fermentation, lock-and-key
carnivorous chimpanzees, chimpanzees, food sharing, hunting, omnivorous chimpanzees, feeding behavior, Gombe National Park, Tanzania	theory, science history 1948 Dec p 28-39 air pollution, combustibility, fly ash, dust storms, metallurgy, fine
1973 Jan p 32-42 [382]	particles 1950 Dec p 50-53
carnivorous plants, fungi, soil molds, nematodes, carnivorous fungi 1958 July p 67-72 [1094]	polymers, materials technology, industrial chemistry, stereoisomers, synthesizing giant molecules 1957 Sept p 98–104
voodoo lily, insect attractant, Arum family, respiration	polymers, materials technology, industrial chemistry, stereoisomers,
1966 July p 80-88 active trapper, passive trapper, digestive enzymes, natural history	synthesizing giant molecules 1957 Nov p 98–104 enzyme-substrate complex, enzymes, dialysis 1959 Aug p 119–125
1978 Feb p 104–155 [1382]	lithium, polymerization, stereoisomers, promotion of polymerization
Carnot, Rumford, Joule, science history, heat, pioneers in the theory of heat 1954 Sept p 60-61	by lithium 1963 Jan p 88–102 corona discharge, free radicals, ozone, polymerization, corona
heat 1954 Sept p 60-61 Carnot cycle, heat pump, thermodynamics, principles and applications of	chemistry, water purification, hydrocarbon cracking
heat pump 1951 May p 54-59 Diesel engine, isothermal combustion, automobile engines, Diesel's	1965 June p 90-98 chemical reaction, chemical kinetics, allosteric enzymes, proton
'rational' engine 1969 Aug p 108–117	transfer, enzymes, chemical equilibrium, relaxation methods in
carotene, leaf color, anthocyanins, chlorophyll, primary synthesis of aromatic compounds 1950 Oct p 40-43	chemistry 1969 May p 30-41
aromatic compounds 1950 Oct p 40-43 photosynthesis, chlorophyll, retinene, vision, photobiology,	chemical reaction, industrial processes, petroleum cracking 1971 Dec p 46-58
phototropism, bioluminescence, sunlight, life and light 1959 Oct p 92-108	catalytic polymerization, polyethylene, polymers, thermoplastic polymers,
carotenoids, chloroplast, photosynthesis, chlorophyll, biology of pigments	properties, production, economics of first 1,000 million-pound plastic 1957 Sept p 139–152
1956 Jan p 80-86 flower pigments, pigment synthesis, flavonoids, anthocyanins,	polymers, 'stereoregular' polymers, isotactic polymers, polyethylene, polypropylene, precisely constructed polymers
biochemistry and genetics of flower pigments	1961 Aug p 33-41 [315]
1964 June p 84-92 [186] carrier-wave generator, communication technology, crystal structure.	catalytic proteins, enzyme action, protein-cutting enzymes, proteolytic enzymes, serum proteins, chymotrypsin, elastase, trypsin
diode laser, laser, heterostructure lasers, light-emitting	1974 July p 74–88 [1301]
semiconductor, solid-state electronics 1971 July p 32-40 carrier-wave modulation, coaxial cable, communication technology,	cataract, eye lens, retina, etiology, course and treatment of cataract
electromagnetic spectrum, fiber optics, radiowave, communication	aging, eye lens, human eye, vision 1962 Mar p 106–114 1975 Dec p 70–81
channels, bandwidth, noise 1972 Sept p 98-113 Carroll, mathematics, logic, Dodgson, 'Alice in Wonderland', Lewis	catastrophe theory, discontinuous phenomena, mathematical model,
Carroll (Charles Lutwidge Dodgson), biography	to describe discontinuous processes 1976 Mar n 60D
1956 Apr p 116-128 Cartesian diver, embryonic development, cell differentiation,	'catastrophism', fossil record, species extinction, natural selection,
embryological 'organizer', fundamental research, How do cells	catecholamines, acetylcholine, adrenalin, dopamine, drug effects, nerve
differentiate? 1953 Sept p 108-116 Cartesian geometry, mathematics, analytic geometry, philosophy,	physiology, neurotransmitters, noradrenaline
Descartes, Rene Descartes, biography 1959 Oct p 160-173	1974 June p 58-71 [1297] catenane, chemical topology, topological isomer, cyclic molecules,
Carthage, Classical archeology, Roman colony, archeological 'rescue' campaign 1978 Jan p 110-120 [704]	molecular structure, ring molecules, linking and knotting of ring
Carthaginian fortress, military history, Sardinia 1975 Feb p 80–87 cartilage, bone, calcium, feedback, hydroxyapatite crystal, osteoclasts	formation of hydrocarton rings 1960 Not = 02
1955 Feb p 84-91	caterpillars, birds, camoullage, mimicry, behavioral adaptation, defense
cartography, Mount McKinley, photogrammetry 1949 Jan p 46-51 carts, transportation, wheeled vehicles, oxen, wagons, Transcaucasus,	catfish, hyla, chameleon, skin color, chromatophores, how animals
Mesopotamia origin of wheeled transport 5,000 years ago	change color 1952 Mar p 64-67 walks and breathes air
1968 July p 82-90 casein, lictogenesis milk, mammary gland, hormonal action cell	catharsis, aggression, violence, delinquency, motion picture film
secretion composition and synthesis of cow's milk	television, effects of observing filmed violence
Caspian sea, salt falling level of Caspian 1969 July p 58-68 1963 Aug p 94-100	cathode-ray tube, electronics, electron tubes, amplifiers, communication technology, rectifiers electron optics, communication, power,

thermionic emission, state of the technology 1950 Oct p 30-39	
) call communication and the
computer technology, computer displays, information theory, light pen	
computer graphics, rand tablet, computer graphics and man-	reflexes, neuroreceptors, relina, nerve impulse, neurotransmitters
	neural synapse, cytology, neuromuscular synapse, how cells
	communicate 1961 Sept. p. 209–220 1981
electronic typesetting, printing, photographic typesetting, digital	adrenal gland, ACTH, pituitary gland, molecular structure of ACTH
computer, mechanical composition, computer applications	relation to function 1062 Tulu = 46 52 (160)
1969 May p 60-69	genetic code, communication, nerve impulse, hormonal action,
Crookes tube, oscilloscope, vacuum tube, Ferdinand Braun's invention	e inpuise, normonar action,
1974 Mar p 92–101	metabolic information 1972 Sept p 42–51 [1257]
cationic detergent, synthetic detergents, amonic detergent, surfactant,	the state of the s
nature and action of synthetic detergents 1951 Oct p 26-30	human cells 1957 Aug p 91–100 [33]
	, and the second
cattle, animal husbandry, dairying, Zebu cattle, European cattle, selective	
stock breeding 1958 June p 51–59	experiments in aging 1968 Mar p 32–37 [1103]
biological pest control, screw worm fly, X-ray, sterilization, pest	cell differentiation, larvae, fruit fly, transdetermination
control, eradication of the screw worm fly 1960 Oct p 54-61	1968 Nov p 110-120 [1127]
animal husbandry, Karimojong, subsistence herding, Uganda	cell hybridization, cell differentiation, hybrid cells, Sendai virus, gene
1969 Геb р 76-89	mapping, mouse-rat, mouse-human hybrid cells in laboratory
beetle, coprid beetles, dung beetles 1974 Apr p 100-109	1969 Apr p 26–35 [1137]
a disease called 'X' 1948 Dec p 27	
· · · · · · · · · · · · · · · · · · ·	
causation, chance, probability, odds, calculus of chances, philosophy of	cell differentiation, protozoon, regeneration, embryonic development,
science, logician's point-of-view 1965 Oct p 44-54	protozoon as model for embryological study 1953 Mar p 76-82
cavalry, Mongol conquests, war, Chingis Khan, frontier history, nomatic	embryonic development, embryological 'organizer', Cartesian diver,
civilization, Chingis Khan, biography 1963 Aug. p 54-68	fundamental research, How do cells differentiate?
cave art, cave paintings, Paleolithic archeology, sculpture, Lascaux,	1953 Sept p 108-116
Altamira 1968 Feb p 58–72	embryonic development, blastula, gastrula, fertilization ectoderm
cave bear, bears, Ice Age, extinction mechanism 1972 Mar p 60–72	mesoderm, endoderm, embryological 'organizer', science history,
cave dwellers, Peru, stone tools, human evolution, Ayacucho site	review of classical embryology 1957 Nov p 79–88 [103]
1971 Apr p 36-46	
	embryonic development, feedback, tissue specialization 1958 Dec p 36-41
cave paintings, Paleolithic Europe, Cro Magno art, Magdalenian,	
Aurignacian-Perigordian 1953 Aug p 30–33	Hydra, sexual reproduction, asexual reproduction, growth regulation
cave art, Paleolithic archeology, sculpture, Lascaux, Altamira	carbon dioxide as 'sex gas' 1959 Apr p 145–156
1968 Feb p 58–72	amoebae, social amoebae, slime mold, Dictyostelium cell aggregation,
caves, ecology, degenerative evolution 1955 May p 98–106	acrasin 1959 Dec p 152–162
cavitation, droplet-levitation technique, liquids, negative-pressure	tissue specialization, 'lampbrush' chromosome, embryonic
concept, tensile strength, surface tension 1972 Dec p 58-71	development, zygote, fertilization, ovum, clone, cytology, how cells
C.E.D.: Committee for Economic Development	specialize 1961 Sept p 124-140
C.E.D. recommendations, Congressional role in arms policy	cell aggregation, heart cells, heart contraction, myogenic rhythm, rat
1974 Oct p 55	cardiac cells in vitro 1962 May p 141-152
Cedros Trough, Pacific Ocean, earth crust, Acapulco trench, Tonga	muscle tissue, embryonic cells, cell culture, clone, origin of muscle in
	embryonic development 1964 Aug p 61-66
Trench, ocean floor 1955 Nov p 36-41 [814] celestial energy, cosmological 'hangups', energy cycle, power, radiation	cell culture, larvae, fruit fly, transdetermination
celestial energy, cosmological hangups, energy cycle, power, rudation	1968 Nov p 110–120 [1127]
energy, entropy per unit energy, gravitational energy, stellar evolution, thermonuclear energy 1971 Sept p 50-59 [662]	nucleus transplantation, clone, genetic engineering somatic cell
10// 7	
	nucleus, gene complement, frog embryo, gene regulation
celestial masigation, bird migration, bird navigation, blackpoll warbler,	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24-35 [1128]
celestial navigation, bird migration, bird navigation, blackpoll warbler,	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24-35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture
celestial master, radio astronomy celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102–111 [1327]	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24-35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36-44 [1136]
celestial master, radio astronomy celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102–111 [1327] by radio sextant 1959 Apr p 70	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24-35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36-44 [1136] cell culture, cell hybridization, hybrid cells, Sendai virus, gene
celestial master, radio astronomy celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102–111 [1327] by radio sextant 1959 Apr p 70	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24-35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36-44 [1136] cell culture, cell hybridization, hybrid cells, Sendai virus, gene mapping, mouse-rat, mouse-human hybrid cells in laboratory
celestial master, radio astronomy celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102–111 [1327] by radio sextant 1959 Apr p 70 celibacy, birth control, disease, foundling institutions, infanticide, Malthusian doctrine, marriage age, population growth, population	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24-35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36-44 [1136] cell culture, cell hybridization, hybrid cells, Sendai virus, gene mapping, mouse-rat, mouse-human hybrid cells in laboratory 1969 Apr p 26-35 [1137]
celestial master, Tadio astronomy celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102–111 [1327] by radio sextant 1959 Apr p 70 celibacy, birth control, disease, foundling institutions, infanticide, Malthusian doctrine, marriage age, population growth, population control in Furone 1750-1850 1972 Feb p 92–99 [674]	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24-35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36-44 [1136] cell culture, cell hybridization, hybrid cells, Sendai virus, gene mapping, mouse-rat, mouse-human hybrid cells in laboratory 1969 Apr p 26-35 [1137] cell culture, cell-surface antigens, immune response, immunoglobin
celestial master, radio astronomy celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102–111 [1327] by radio sextant 1959 Apr p 70 celibacy, birth control, disease, foundling institutions, infanticide, Malthusian doctrine, marriage age, population growth, population control in Europe 1750–1850 1972 Feb p 92–99 [674]	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24-35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36-44 [1136] cell culture, cell hybridization, hybrid cells, Sendai virus, gene mapping, mouse-rat, mouse-human hybrid cells in laboratory 1969 Apr p 26-35 [1137] cell culture, cell-surface antigens, immune response, immunoglobin lymphocytes 1973 June p 82-91 [1275]
celestial master, radio astronomy celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102–111 [1327] by radio sextant 1959 Apr p 70 celibacy, birth control, disease, foundling institutions, infanticide, Malthusian doctrine, marriage age, population growth, population control in Europe 1750-1850 1972 Feb p 92–99 [674] cell, virology, electron microscopy, viruses inside cells 1953 Dec p 38–41	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24-35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36-44 [1136] cell culture, cell hybridization, hybrid cells, Sendai virus, gene mapping, mouse-rat, mouse-human hybrid cells in laboratory 1969 Apr p 26-35 [1137] cell culture, cell-surface antigens, immune response, immunoglobin lymphocytes 1973 June p 82-91 [1275] antibodies, bursa, humoral immunity, B-cells, T-cells immune system,
celestial nasier, radio astronomy celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102–111 [1327] by radio sextant 1959 Apr p 70 celibacy, birth control, disease, foundling institutions, infanticide, Malthusian doctrine, marriage age, population growth, population control in Europe 1750-1850 1972 Feb p 92–99 [674] cell, virology, electron microscopy, viruses inside cell 1953 Dec p 38–41	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24–35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36–44 [1136] cell culture, cell hybridization, hybrid cells, Sendai virus, gene mapping, mouse-rat, mouse-human hybrid cells in laboratory 1969 Apr p 26–35 [1137] cell culture, cell-surface antigens, immune response, immunoglobin lymphocytes 1973 June p 82–91 [1275] antibodies, bursa, humoral immunity, B-cells, T-cells immune system, lymphocytes, thymus 1974 Nov p 58–72 [1306]
celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102–111 [1327] by radio sextant 1959 Apr p 70 celibacy, birth control, disease, foundling institutions, infanticide, Malthusian doctrine, marriage age, population growth, population control in Europe 1750-1850 1972 Feb p 92–99 [674] cell, virology, electron microscopy, viruses inside cells collagen, elastin, keratin, myosin, fibrin, polymers, polymers in living	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24–35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36–44 [1136] cell culture, cell hybridization, hybrid cells, Sendai virus, gene mapping, mouse-rat, mouse-human hybrid cells in laboratory 1969 Apr p 26–35 [1137] cell culture, cell-surface antigens, immune response, immunoglobin lymphocytes 1973 June p 82–91 [1275] antibodies, bursa, humoral immunity, B-cells, T-cells immune system, lymphocytes, thymus 1974 Nov p 58–72 [1306] regeneration, biological form, cellular polarity, embryonic
celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102–111 [1327] by radio sextant 1959 Apr p 70 celibacy, birth control, disease, foundling institutions, infanticide, Malthusian doctrine, marriage age, population growth, population control in Europe 1750-1850 1972 Feb p 92–99 [674] cell, virology, electron microscopy, viruses inside cells collagen, elastin, keratin, myosin, fibrin, polymers, polymers in living 1957 Sept p 204–216 [35]	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24–35 [1128] embryonic development, pancreas, mesoderm, endoderm, tussue culture 1969 Mar p 36–44 [1136] cell culture, cell hybridization, hybrid cells, Sendai virus, gene mapping, mouse-rat, mouse-human hybrid cells in laboratory 1969 Apr p 26–35 [1137] cell culture, cell-surface antigens, immune response, immunoglobin lymphocytes 1973 June p 82–91 [1275] antibodies, bursa, humoral immunity, B-cells, T-cells immune system, lymphocytes, thymus 1974 Nov p 58–72 [1306] regeneration, biological form, cellular polarity, embryonic development, Hydra, morphogenesis morphogens
celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102–111 [1327] by radio sextant 1959 Apr p 70 celibacy, birth control, disease, foundling institutions, infanticide, Malthusian doctrine, marriage age, population growth, population control in Europe 1750-1850 1972 Feb p 92–99 [674] cell, virology, electron microscopy, viruses inside cells collagen, elastin, keratin, myosin, fibrin, polymers, polymers in living cells amoebae, cytology, sol-gel reaction, high pressure, effect of high 1958 Oct p 36–43	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24-35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36-44 [1136] cell culture, cell hybridization, hybrid cells, Sendai virus, gene mapping, mouse-rat, mouse-human hybrid cells in laboratory 1969 Apr p 26-35 [1137] cell culture, cell-surface antigens, immune response, immunoglobin lymphocytes 1973 June p 82-91 [1275] antibodies, bursa, humoral immunity, B-cells, T-cells immune system, lymphocytes, thymus 1974 Nov p 58-72 [1306] regeneration, biological form, cellular polarity, embryonic development, Hydra, morphogenesis morphogens 1974 Dec p 44-54 [1309]
celestial master, radio astronomy celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102–111 [1327] by radio sextant 1959 Apr p 70 celibacy, birth control, disease, foundling institutions, infanticide, Malthusian doctrine, marriage age, population growth, population control in Europe 1750-1850 1972 Feb p 92–99 [674] cell, virology, electron microscopy, viruses inside cells 1953 Dec p 38–41 collagen, elastin, keratin, myosin, fibrin, polymers, polymers in living 1957 Sept p 204–216 [35] amoebae, cytology, sol-gel reaction, high pressure, effect of high pressure on cellular activity 1958 Oct p 36–43 pressure on cellular activity Silvelberg myosis, cell culture, somatic cells, DNA replication,	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24–35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36–44 [1136] cell culture, cell hybridization, hybrid cells, Sendai virus, gene mapping, mouse-rat, mouse-human hybrid cells in laboratory 1969 Apr p 26–35 [1137] cell culture, cell-surface antigens, immune response, immunoglobin lymphocytes 1973 June p 82–91 [1275] antibodies, bursa, humoral immunity, B-cells, T-cells immune system, lymphocytes, thymus 1974 Nov p 58–72 [1306] regeneration, biological form, cellular polarity, embryonic development, Hydra, morphogenesis morphogens 1974 Dec p 44–54 [1309] regeneration, cockroach, embryo graft experiments, embryonic
celestial master, radio astronomy celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102–111 [1327] by radio sextant 1959 Apr p 70 celibacy, birth control, disease, foundling institutions, infanticide, Malthusian doctrine, marriage age, population growth, population control in Europe 1750-1850 1972 Feb p 92–99 [674] cell, virology, electron microscopy, viruses inside cells collagen, elastin, keratin, myosin, fibrin, polymers, polymers in living cells 1957 Sept p 204–216 [35] amoebae, cytology, sol-gel reaction, high pressure, effect of high pressure on cellular activity aging, fibroblasts, mitosis, cell culture, somatic cells, DNA replication, aging, fibroblasts, mitosis, cell culture, somatic cells, DNA replication,	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24–35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36–44 [1136] cell culture, cell hybridization, hybrid cells, Sendai virus, gene mapping, mouse-rat, mouse-human hybrid cells in laboratory 1969 Apr p 26–35 [1137] cell culture, cell-surface antigens, immune response, immunoglobin lymphocytes 1973 June p 82–91 [1275] antibodies, bursa, humoral immunity, B-cells, T-cells immune system, lymphocytes, thymus 1974 Nov p 58–72 [1306] regeneration, biological form, cellular polarity, embryonic development, Hydra, morphogenesis morphogens 1974 Dec p 44–54 [1309] regeneration, cockroach, embryo graft experiments, embryonic development, newt, biological form 1977 July p 66–81 [1363]
celestial nasier, radio astronomy celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102–111 [1327] by radio sextant 1959 Apr p 70 celibacy, birth control, disease, foundling institutions, infanticide, Malthusian doctrine, marriage age, population growth, population control in Europe 1750-1850 1972 Feb p 92–99 [674] cell, virology, electron microscopy, viruses inside cells, 1953 Dec p 38–41 collagen, elastin, keratin, myosin, fibrin, polymers, polymers in living cells 1957 Sept p 204–216 [35] amoebae, cytology, sol-gel reaction, high pressure, effect of high pressure on cellular activity 1958 Oct p 36–43 aging, fibroblasts, mitosis, cell culture, somatic cells, DNA replication, experiments in aging 1968 Mar p 32–37 [1103]	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24–35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36–44 [1136] cell culture, cell hybridization, hybrid cells, Sendai virus, gene mapping, mouse-rat, mouse-human hybrid cells in laboratory 1969 Apr p 26–35 [1137] cell culture, cell-surface antigens, immune response, immunoglobin lymphocytes 1973 June p 82–91 [1275] antibodies, bursa, humoral immunity, B-cells, T-cells immune system, lymphocytes, thymus 1974 Nov p 58–72 [1306] regeneration, biological form, cellular polarity, embryonic development, Hydra, morphogenesis morphogens 1974 Dec p 44–54 [1309] regeneration, cockroach, embryo graft experiments, embryonic development, newt, biological form 1977 July p 66–81 [1363] cell duision. see mitosis, meiosis
celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102–111 [1327] by radio sextant 1959 Apr p 70 celibacy, birth control, disease, foundling institutions, infanticide, Malthusian doctrine, marriage age, population growth, population control in Europe 1750-1850 1972 Feb p 92–99 [674] cell, virology, electron microscopy, viruses inside cells collagen, elastin, keratin, myosin, fibrin, polymers, polymers in living cells 1953 Dec p 38–41 collagen, elastin, keratin, myosin, fibrin, polymers, polymers in living cells amoebae, cytology, sol-gel reaction, high pressure, effect of high pressure on cellular activity 1958 Oct p 36–43 aging, fibroblasts, mitosis, cell culture, somatic cells, DNA replication, experiments in aging microsurgery, laser, physiology, laser lesions, cell organelle	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24–35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36–44 [1136] cell culture, cell hybridization, hybrid cells, Sendai virus, gene mapping, mouse-rat, mouse-human hybrid cells in laboratory 1969 Apr p 26–35 [1137] cell culture, cell-surface antigens, immune response, immunoglobin lymphocytes 1973 June p 82–91 [1275] antibodies, bursa, humoral immunity, B-cells, T-cells immune system, lymphocytes, thymus 1974 Nov p 58–72 [1306] regeneration, biological form, cellular polarity, embryonic development, Hydra, morphogenesis morphogens 1974 Dec p 44–54 [1309] regeneration, cockroach, embryo graft experiments, embryonic development, newt, biological form 1977 July p 66–81 [1363] cell division, see mutosis, meiosis cell evolution, chloroplast mitochondria, symbiosis, cell organelle, DNA
celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102–111 [1327] by radio sextant 1959 Apr p 70 celibacy, birth control, disease, foundling institutions, infanticide, Malthusian doctrine, marriage age, population growth, population control in Europe 1750-1850 1972 Feb p 92–99 [674] cell, virology, electron microscopy, viruses inside cells collagen, elastin, keratin, myosin, fibrin, polymers, polymers in living cells 1953 Dec p 38–41 collagen, elastin, keratin, myosin, fibrin, polymers, polymers in living cells amoebae, cytology, sol-gel reaction, high pressure, effect of high pressure on cellular activity 1958 Oct p 36–43 aging, fibroblasts, mitosis, cell culture, somatic cells, DNA replication, experiments in aging microsurgery, laser, physiology, laser lesions, cell organelle	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24–35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36–44 [1136] cell culture, cell hybridization, hybrid cells, Sendai virus, gene mapping, mouse-rat, mouse-human hybrid cells in laboratory 1969 Apr p 26–35 [1137] cell culture, cell-surface antigens, immune response, immunoglobin lymphocytes 1973 June p 82–91 [1275] antibodies, bursa, humoral immunity, B-cells, T-cells immune system, lymphocytes, thymus 1974 Nov p 58–72 [1306] regeneration, biological form, cellular polarity, embryonic development, Hydra, morphogenesis morphogens 1974 Dec p 44–54 [1309] regeneration, cockroach, embryo graft experiments, embryonic development, newt, biological form 1977 July p 66–81 [1363] cell division, see mitosis, meiosis cell evolution, chloroplast mitochondria, symbiosis, cell organelle, DNA prokaryote origin protein synthesis, plastids, extra-nuclear genetic
celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102–111 [1327] by radio sextant 1959 Apr p 70 celibacy, birth control, disease, foundling institutions, infanticide, Malthusian doctrine, marriage age, population growth, population control in Europe 1750-1850 1972 Feb p 92–99 [674] cell, virology, electron microscopy, viruses inside cells collagen, elastin, keratin, myosin, fibrin, polymers, polymers in living cells 1957 Sept p 204–216 [35] amoebae, cytology, sol-gel reaction, high pressure, effect of high pressure on cellular activity 1958 Oct p 36–43 aging, fibroblasts, mitosis, cell culture, somatic cells, DNA replication, experiments in aging 1968 Mar p 32–37 [1103] microsurgery, laser, physiology, laser lesions, cell organelle 1970 Feb p 98–110 [1170] cell aggregation, Volvox, metazoa, between single-celled and multi celled	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24–35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36–44 [1136] cell culture, cell hybridization, hybrid cells, Sendai virus, gene mapping, mouse-rat, mouse-human hybrid cells in laboratory 1969 Apr p 26–35 [1137] cell culture, cell-surface antigens, immune response, immunoglobin lymphocytes 1973 June p 82–91 [1275] antibodies, bursa, humoral immunity, B-cells, T-cells immune system, lymphocytes, thymus 1974 Nov p 58–72 [1306] regeneration, biological form, cellular polarity, embryonic development, Hydra, morphogenesis morphogens 1974 Dec p 44–54 [1309] regeneration, cockroach, embryo graft experiments, embryonic development, newt, biological form 1977 July p 66–81 [1363] cell division, see mutosis, meiosis cell evolution, chloroplast mitochondria, symbiosis, cell organelle, DNA prokaryote origin protein synthesis, plastids, extra-nuclear genetic activity in cell
celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102–111 [1327] by radio sextant 1959 Apr p 70 celibacy, birth control, disease, foundling institutions, infanticide, Malthusian doctrine, marriage age, population growth, population control in Europe 1750-1850 1972 Feb p 92–99 [674] cell, virology, electron microscopy, viruses inside cells 1953 Dec p 38–41 collagen, elastin, keratin, myosin, fibrin, polymers, polymers in living cells 1957 Sept p 204–216 [35] amoebae, cytology, sol-gel reaction, high pressure, effect of high pressure on cellular activity 1958 Oct p 36–43 aging, fibroblasts, mitosis, cell culture, somatic cells, DNA replication, experiments in aging 1968 Mar p 32–37 [1103] microsurgery, laser, physiology, laser lesions, cell organelle 1970 Feb p 98–110 [1170] cell aggregation, Volvox, metazoa, between single-celled and multi celled organisms	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24–35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36–44 [1136] cell culture, cell hybridization, hybrid cells, Sendai virus, gene mapping, mouse-rat, mouse-human hybrid cells in laboratory 1969 Apr p 26–35 [1137] cell culture, cell-surface antigens, immune response, immunoglobin lymphocytes 1973 June p 82–91 [1275] antibodies, bursa, humoral immunity, B-cells, T-cells immune system, lymphocytes, thymus 1974 Nov p 58–72 [1306] regeneration, biological form, cellular polarity, embryonic development, Hydra, morphogenesis morphogens 1974 Dec p 44–54 [1309] regeneration, cockroach, embryo graft experiments, embryonic development, newt, biological form 1977 July p 66–81 [1363] cell division, see mitosis, meiosis cell evolution, chloroplast mitochondna, symbiosis, cell organelle, DNA prokaryote origin protein synthesis, plastids, extra-nuclear genetic activity in cell 1970 Nov p 22–29 [1203]
celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102–111 [1327] by radio sextant 1959 Apr p 70 celibacy, birth control, disease, foundling institutions, infanticide, Malthusian doctrine, marriage age, population growth, population control in Europe 1750-1850 1972 Feb p 92–99 [674] cell, virology, electron microscopy, viruses inside cells 1953 Dec p 38–41 collagen, elastin, keratin, myosin, fibrin, polymers, polymers in living cells 1957 Sept p 204–216 [35] amoebae, cytology, sol-gel reaction, high pressure, effect of high pressure on cellular activity 1958 Oct p 36–43 aging, fibroblasts, mitosis, cell culture, somatic cells, DNA replication, experiments in aging microsurgery, laser, physiology, laser lesions, cell organelle 1970 Feb p 98–110 [1170] cell aggregation, Volvox, metazoa, between single-celled and multi celled organisms tissue differentiation, cell 'recognition', cytology, embryonic	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24–35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36–44 [1136] cell culture, cell hybridization, hybrid cells, Sendai virus, gene mapping, mouse-rat, mouse-human hybrid cells in laboratory 1969 Apr p 26–35 [1137] cell culture, cell-surface antigens, immune response, immunoglobin lymphocytes in 1973 June p 82–91 [1275] antibodies, bursa, humoral immunity, B-cells, T-cells immune system, lymphocytes, thymus 1974 Nov p 58–72 [1306] regeneration, biological form, cellular polarity, embryonic development, Hydra, morphogenesis morphogens 1974 Dec p 44–54 [1309] regeneration, cockroach, embryo graft experiments, embryonic development, newt, biological form 1977 July p 66–81 [1363] cell division, see mitosis, meiosis cell evolution, chloroplast mitochondria, symbiosis, cell organelle, DNA prokaryote origin protein synthesis, plastids, extra-nuclear genetic activity in cell 1970 Nov p 22–29 [1203] cell organelle, chloroplast, endosymbiosis, eukaryotic cells mitochondria, symbiosis, prokaryotic cells, algae, cilia, flagella
celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102–111 [1327] by radio sextant 1959 Apr p 70 celibacy, birth control, disease, foundling institutions, infanticide, Malthusian doctrine, marriage age, population growth, population control in Europe 1750-1850 1972 Feb p 92–99 [674] cell, virology, electron microscopy, viruses inside cells 1953 Dec p 38–41 collagen, elastin, keratin, myosin, fibrin, polymers, polymers in living cells amoebae, cytology, sol-gel reaction, high pressure, effect of high pressure on cellular activity 1958 Oct p 36–43 aging, fibroblasts, mitosis, cell culture, somatic cells, DNA replication, experiments in aging microsurgery, laser, physiology, laser lesions, cell organelle 1970 Feb p 98–110 [1170] cell aggregation, Volvox, metazoa, between single-celled and multi celled organisms tissue differentiation, cell 'recognition', cytology, embryonic development, how cells associate 1961 Sept p 142–165 development, how cells associate	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24–35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36–44 [1136] cell culture, cell hybridization, hybrid cells, Sendai virus, gene mapping, mouse-rat, mouse-human hybrid cells in laboratory 1969 Apr p 26–35 [1137] cell culture, cell-surface antigens, immune response, immunoglobin lymphocytes 1973 June p 82–91 [1275] antibodies, bursa, humoral immunity, B-cells, T-cells immune system, lymphocytes, thymus 1974 Nov p 58–72 [1306] regeneration, biological form, cellular polarity, embryonic development, Hydra, morphogenesis morphogens 1974 Dec p 44–54 [1309] regeneration, cockroach, embryo graft experiments, embryonic development, newt, biological form 1977 July p 66–81 [1363] cell division, see mitosis, meiosis cell evolution, chloroplast mitochondria, symbiosis, cell organelle, DNA prokaryote origin protein synthesis, plastids, extra-nuclear genetic activity in cell 1970 Nov p 22–29 [1203] cell organelle, chloroplast, endosymbiosis, eukaryotic cells mitochondria, symbiosis, prokaryotic cells, algae, cilia, flagella
celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102–111 [1327] by radio sextant 1959 Apr p 70 celibacy, birth control, disease, foundling institutions, infanticide, Malthusian doctrine, marriage age, population growth, population control in Europe 1750-1850 1972 Feb p 92–99 [674] cell, virology, electron microscopy, viruses inside cells collagen, elastin, keratin, myosin, fibrin, polymers, polymers in living cells 1953 Dec p 38–41 collagen, elastin, keratin, myosin, fibrin, polymers, polymers in living cells 1957 Sept p 204–216 [35] amoebae, cytology, sol-gel reaction, high pressure, effect of high pressure on cellular activity 1958 Oct p 36–43 aging, fibroblasts, mitosis, cell culture, somatic cells, DNA replication, experiments in aging 1968 Mar p 32–37 [1103] microsurgery, laser, physiology, laser lesions, cell organelle 1970 Feb p 98–110 [1170] cell aggregation, Volvox, metazoa, between single-celled and multi celled organisms tissue differentiation, cell 'recognition', cytology, embryonic development, how cells associate 1961 Sept p 142–165 development, how cells associate 1962 Movy p 141–152	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24–35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36–44 [1136] cell culture, cell hybridization, hybrid cells, Sendai virus, gene mapping, mouse-rat, mouse-human hybrid cells in laboratory 1969 Apr p 26–35 [1137] cell culture, cell-surface antigens, immune response, immunoglobin lymphocytes 1973 June p 82–91 [1275] antibodies, bursa, humoral immunity, B-cells, T-cells immune system, lymphocytes, thymus 1974 Nov p 58–72 [1306] regeneration, biological form, cellular polarity, embryonic development, Hydra, morphogenesis morphogens 1974 Dec p 44–54 [1309] regeneration, cockroach, embryo graft experiments, embryonic development, newt, biological form 1977 July p 66–81 [1363] cell division, see mitosis, meiosis cell evolution, chloroplast mitochondria, symbiosis, cell organelle, DNA prokaryote origin protein synthesis, plastids, extra-nuclear genetic activity in cell 1970 Nov p 22–29 [1203] cell organelle, chloroplast, endosymbiosis, eukaryotic cells mitochondria, symbiosis, prokaryotic cells, algae, cilia, flagella plastids 1971 Aug p 48–57 [1230]
celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102–111 [1327] by radio sextant 1959 Apr p 70 celibacy, birth control, disease, foundling institutions, infanticide, Malthusian doctrine, marriage age, population growth, population control in Europe 1750-1850 1972 Feb p 92–99 [674] cell, virology, electron microscopy, viruses inside cells collagen, elastin, keratin, myosin, fibrin, polymers, polymers in living cells 1953 Dec p 38–41 collagen, elastin, keratin, myosin, fibrin, polymers, polymers in living 1957 Sept p 204–216 [35] amoebae, cytology, sol-gel reaction, high pressure, effect of high pressure on cellular activity 1958 Oct p 36–43 aging, fibroblasts, mitosis, cell culture, somatic cells, DNA replication, experiments in aging 1968 Mar p 32–37 [1103] microsurgery, laser, physiology, laser lesions, cell organelle 1970 Feb p 98–110 [1170] cell aggregation, Volvox, metazoa, between single-celled and multi celled organisms tissue differentiation, cell 'recognition', cytology, embryonic development, how cells associate 1961 Sept p 142–165 cell differentiation, heart cells, heart contraction, myogenic rhythm, rat cell differentiation, heart cells, heart contraction, myogenic rhythm, rat cardiac cells in vitro	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24–35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36–44 [1136] cell culture, cell hybridization, hybrid cells, Sendai virus, gene mapping, mouse-rat, mouse-human hybrid cells in laboratory 1969 Apr p 26–35 [1137] cell culture, cell-surface antigens, immune response, immunoglobin lymphocytes 1973 June p 82–91 [1275] antibodies, bursa, humoral immunity, B-cells, T-cells immune system, lymphocytes, thymus 1974 Nov p 58–72 [1306] regeneration, biological form, cellular polarity, embryonic development, Hydra, morphogenesis morphogens 1974 Dec p 44–54 [1309] regeneration, cockroach, embryo graft experiments, embryonic development, newt, biological form 1977 July p 66–81 [1363] cell division, see mitosis, meiosis cell evolution, chloroplast mitochondna, symbiosis, cell organelle, DNA prokaryote origin protein synthesis, plastids, extra-nuclear genetic activity in cell 1970 Nov p 22–29 [1203] cell organelle, chloroplast, endosymbiosis, eukaryotic cells mitochondria, symbiosis, prokaryotic cells, algae, cilia, flagella plastids 1971 Aug p 48–57 [1230] cell-free system, DNA synthesis virus \pi X 174, DNA polymerase, activated nucleotides first test-tube synthesis of biologically active
celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102–111 [1327] by radio sextant 1959 Apr p 70 celibacy, birth control, disease, foundling institutions, infanticide, Malthusian doctrine, marriage age, population growth, population control in Europe 1750-1850 1972 Feb p 92–99 [674] cell, virology, electron microscopy, viruses inside cells 1953 Dec p 38–41 collagen, elastin, keratin, myosin, fibrin, polymers, polymers in living cells 1957 Sept p 204–216 [35] amoebae, cytology, sol-gel reaction, high pressure, effect of high pressure on cellular activity 1958 Oct p 36–43 aging, fibroblasts, mitosis, cell culture, somatic cells, DNA replication, experiments in aging 1968 Mar p 32–37 [1103] microsurgery, laser, physiology, laser lesions, cell organelle 1970 Feb p 98–110 [1170] cell aggregation, Volvox, metazoa, between single-celled and multi celled organisms tissue differentiation, cell 'recognition', cytology, embryonic development, how cells associate 1961 Sept p 142–165 cell differentiation, heart cells, heart contraction, myogenic rhythm, rat cardiac cells in vitro marine organisms, Mesozoa, multicellular organisms	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24–35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36–44 [1136] cell culture, cell hybridization, hybrid cells, Sendai virus, gene mapping, mouse-rat, mouse-human hybrid cells in laboratory 1969 Apr p 26–35 [1137] cell culture, cell-surface antigens, immune response, immunoglobin lymphocytes 1973 June p 82–91 [1275] antibodies, bursa, humoral immunity, B-cells, T-cells immune system, lymphocytes, thymus 1974 Nov p 58–72 [1306] regeneration, biological form, cellular polarity, embryonic development, Hydra, morphogenesis morphogens 1974 Dec p 44–54 [1309] regeneration, cockroach, embryo graft experiments, embryonic development, newt, biological form 1977 July p 66–81 [1363] cell division, see mitosis, meiosis cell evolution, chloroplast mitochondria, symbiosis, cell organelle, DNA prokaryote origin protein synthesis, plastids, extra-nuclear genetic activity in cell 1970 Nov p 22–29 [1203] cell organelle, chloroplast, endosymbiosis, eukaryotic cells mitochondria, symbiosis, prokaryotic cells, algae, cilia, flagella plastids 1971 Aug p 48–57 [1230] cell-free system, DNA synthesis virus \(\pi \text{ X 174, DNA polymerase,} \) activated nucleotides first test-tube synthesis of biologically active
celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102–111 [1327] by radio sextant 1959 Apr p 70 celibacy, birth control, disease, foundling institutions, infanticide, Malthusian doctrine, marriage age, population growth, population control in Europe 1750-1850 1972 Feb p 92–99 [674] cell, virology, electron microscopy, viruses inside cells 1953 Dec p 38–41 collagen, elastin, keratin, myosin, fibrin, polymers, polymers in living cells 1957 Sept p 204–216 [35] amoebae, cytology, sol-gel reaction, high pressure, effect of high pressure on cellular activity 1958 Oct p 36–43 aging, fibroblasts, mitosis, cell culture, somatic cells, DNA replication, experiments in aging 1968 Mar p 32–37 [1103] microsurgery, laser, physiology, laser lesions, cell organelle 1970 Feb p 98–110 [1170] cell aggregation, Volvox, metazoa, between single-celled and multi celled organisms tissue differentiation, cell 'recognition', cytology, embryonic development, how cells associate 1961 Sept p 142–165 cell differentiation, heart cells, heart contraction, myogenic rhythm, rat cardiac cells in vitro marine organisms, Mesozoa, multicellular organisms	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24–35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36–44 [1136] cell culture, cell hybridization, hybrid cells, Sendai virus, gene mapping, mouse-rat, mouse-human hybrid cells in laboratory 1969 Apr p 26–35 [1137] cell culture, cell-surface antigens, immune response, immunoglobin lymphocytes 1973 June p 82–91 [1275] antibodies, bursa, humoral immunity, B-cells, T-cells immune system, lymphocytes, thymus 1974 Nov p 58–72 [1306] regeneration, biological form, cellular polarity, embryonic development, Hydra, morphogenesis morphogens 1974 Dec p 44–54 [1309] regeneration, cockroach, embryo graft experiments, embryonic development, newt, biological form 1977 July p 66–81 [1363] cell division, see mitosis, meiosis cell evolution, chloroplast mitochondria, symbiosis, cell organelle, DNA prokaryote origin protein synthesis, plastids, extra-nuclear genetic activity in cell 1970 Nov p 22–29 [1203] cell organelle, chloroplast, endosymbiosis, eukaryotic cells mitochondria, symbiosis, prokaryotic cells, algae, cilia, flagella plastids 1971 Aug p 48–57 [1230] cell-free system, DNA synthesis virus \pi X 174, DNA polymerase, activated nucleotides first test-tube synthesis of biologically active DNA 1968 Oct p 64–78 [1124]
celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102–111 [1327] by radio sextant 1959 Apr p 70 celibacy, birth control, disease, foundling institutions, infanticide, Malthusian doctrine, marriage age, population growth, population control in Europe 1750-1850 1972 Feb p 92–99 [674] cell, virology, electron microscopy, viruses inside cells 1953 Dec p 38–41 collagen, elastin, keratin, myosin, fibrin, polymers, polymers in living cells 1957 Sept p 204–216 [35] amoebae, cytology, sol-gel reaction, high pressure, effect of high pressure on cellular activity 1958 Oct p 36–43 aging, fibroblasts, mitosis, cell culture, somatic cells, DNA replication, experiments in aging microsurgery, laser, physiology, laser lesions, cell organelle 1970 Feb p 98–110 [1170] cell aggregation, Volvox, metazoa, between single-celled and multi celled organisms 1950 May p 52–55 tissue differentiation, cell 'recognition', cytology, embryonic development, how cells associate 1961 Sept p 142–165 cell differentiation, heart cells, heart contraction, myogenic rhythm, rat cardiac cells in vitro marine organisms, Mesozoa, multicellular organisms 1972 Dec p 94–101 [1262] cell analogy, termite, social insect, behavioral adaptation, insect behavior	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24–35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36–44 [1136] cell culture, cell hybridization, hybrid cells, Sendai virus, gene mapping, mouse-rat, mouse-human hybrid cells in laboratory 1969 Apr p 26–35 [1137] cell culture, cell-surface antigens, immune response, immunoglobin lymphocytes 1973 June p 82–91 [1275] antibodies, bursa, humoral immunity, B-cells, T-cells immune system, lymphocytes, thymus 1974 Nov p 58–72 [1306] regeneration, biological form, cellular polarity, embryonic development, Hydra, morphogenesis morphogens 1974 Dec p 44–54 [1309] regeneration, cockroach, embryo graft experiments, embryonic development, newt, biological form 1977 July p 66–81 [1363] cell division, see mitosis, meiosis cell evolution, chloroplast mitochondria, symbiosis, cell organelle, DNA prokaryote origin protein synthesis, plastids, extra-nuclear genetic activity in cell 1970 Nov p 22–29 [1203] cell organelle, chloroplast, endosymbiosis, eukaryotic cells mitochondria, symbiosis, prokaryotic cells, algae, cilia, flagella plastids 1971 Aug p 48–57 [1230] cell-free system, DNA synthesis virus \pi X 174, DNA polymerase, activated nucleotides first test-tube synthesis of biologically active DNA 1968 Oct p 64–78 [1124] cell fusion, mouse and human cells fused 11 benefizedon cell culture, cell differentiation, hybrid cells. Sendai
celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102–111 [1327] by radio sextant 1959 Apr p 70 celibacy, birth control, disease, foundling institutions, infanticide, Malthusian doctrine, marriage age, population growth, population control in Europe 1750-1850 1972 Feb p 92–99 [674] cell, virology, electron microscopy, viruses inside cells collagen, elastin, keratin, myosin, fibrin, polymers, polymers in living cells 1953 Dec p 38–41 collagen, elastin, keratin, myosin, fibrin, polymers, polymers in living cells 1957 Sept p 204–216 [35] amoebae, cytology, sol-gel reaction, high pressure, effect of high pressure on cellular activity 1958 Oct p 36–43 aging, fibroblasts, mitosis, cell culture, somatic cells, DNA replication, experiments in aging 1968 Mar p 32–37 [1103] microsurgery, laser, physiology, laser lesions, cell organelle 1970 Feb p 98–110 [1170] cell aggregation, Volvox, metazoa, between single-celled and multi celled organisms 1950 May p 52–55 tissue differentiation, cell 'recognition', cytology, embryonic development, how cells associate 1961 Sept p 142–165 cell differentiation, heart cells, heart contraction, myogenic rhythm, rat cardiac cells in vitro marine organisms, Mesozoa, multicellular organisms 1972 Dec p 94–101 [1262] cell analogy, termite, social insect, behavioral adaptation, insect behavior	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24–35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36–44 [1136] cell culture, cell hybridization, hybrid cells, Sendai virus, gene mapping, mouse-rat, mouse-human hybrid cells in laboratory 1969 Apr p 26–35 [1137] cell culture, cell-surface antigens, immune response, immunoglobin lymphocytes 1973 June p 82–91 [1275] antibodies, bursa, humoral immunity, B-cells, T-cells immune system, lymphocytes, thymus 1974 Nov p 58–72 [1306] regeneration, biological form, cellular polarity, embryonic development, Hydra, morphogenesis morphogens 1974 Dec p 44–54 [1309] regeneration, cockroach, embryo graft experiments, embryonic development, newt, biological form 1977 July p 66–81 [1363] cell division, see mitosis, meiosis cell evolution, chloroplast mitochondria, symbiosis, cell organelle, DNA prokaryote origin protein synthesis, plastids, extra-nuclear genetic activity in cell 1970 Nov p 22–29 [1203] cell organelle, chloroplast, endosymbiosis, eukaryotic cells mitochondria, symbiosis, prokaryotic cells, algae, cilia, flagella plastids 1971 Aug p 48–57 [1230] cell-free system, DNA synthesis virus \pi X 174, DNA polymerase, activated nucleotides first test-tube synthesis of biologically active DNA 1968 Oct p 64–78 [1124] cell fusion, mouse and human cells fused 1965 Apr p 62 cell hybridization, cell culture, cell differentiation, hybrid cells, Sendai virus, gene mapping mouse-rat, mouse-human hybrid cells in
celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102–111 [1327] by radio sextant 1959 Apr p 70 celibacy, birth control, disease, foundling institutions, infanticide, Malthusian doctrine, marriage age, population growth, population control in Europe 1750-1850 1972 Feb p 92–99 [674] cell, virology, electron microscopy, viruses inside cells 1953 Dec p 38–41 collagen, elastin, keratin, myosin, fibrin, polymers, polymers in living cells 1957 Sept p 204–216 [35] amoebae, cytology, sol-gel reaction, high pressure, effect of high pressure on cellular activity 1958 Oct p 36–43 aging, fibroblasts, mitosis, cell culture, somatic cells, DNA replication, experiments in aging 1968 Mar p 32–37 [1103] microsurgery, laser, physiology, laser lesions, cell organelle 1970 Feb p 98–110 [1170] cell aggregation, Volvox, metazoa, between single-celled and multi celled organisms tissue differentiation, cell 'recognition', cytology, embryonic development, how cells associate 1961 Sept p 142–165 cell differentiation, heart cells, heart contraction, myogenic rhythm, rat cardiac cells in vitro marine organisms, Mesozoa, multicellular organisms 1972 Dec p 94–101 [1262] cell analogy, termite, social insect, behavioral adaptation, insect behavior 1953 May p 74–78 cell anatomy, spermatozoon, ovum, virus, science history, cytology,	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24–35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36–44 [1136] cell culture, cell hybridization, hybrid cells, Sendai virus, gene mapping, mouse-rat, mouse-human hybrid cells in laboratory 1969 Apr p 26–35 [1137] cell culture, cell-surface antigens, immune response, immunoglobin lymphocytes 1973 June p 82–91 [1275] antibodies, bursa, humoral immunity, B-cells, T-cells immune system, lymphocytes, thymus 1974 Nov p 58–72 [1306] regeneration, biological form, cellular polarity, embryonic development, Hydra, morphogenesis morphogens 1974 Dec p 44–54 [1309] regeneration, cockroach, embryo graft experiments, embryonic development, newt, biological form 1977 July p 66–81 [1363] cell division, see mitosis, meiosis cell evolution, chloroplast mitochondria, symbiosis, cell organelle, DNA prokaryote origin protein synthesis, plastids, extra-nuclear genetic activity in cell 1970 Nov p 22–29 [1203] cell organelle, chloroplast, endosymbiosis, eukaryotic cells mitochondria, symbiosis, prokaryotic cells, algae, cilia, flagella plastids 1971 Aug p 48–57 [1230] cell-free system, DNA synthesis virus \pi X 174, DNA polymerase, activated nucleotides first test-tube synthesis of biologically active DNA 1968 Oct p 64–78 [1124] cell fusion, mouse and human cells fused cell fision, mouse and human cells fused cell fision, mouse ampping mouse-rat, mouse-human hybrid cells, Sendai virus, gene mapping mouse-rat, mouse-human hybrid cells.
celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102–111 [1327] by radio sextant 1959 Apr p 70 celibacy, birth control, disease, foundling institutions, infanticide, Malthusian doctrine, marriage age, population growth, population control in Europe 1750-1850 1972 Feb p 92–99 [674] cell, virology, electron microscopy, viruses inside cells 1953 Dec p 38–41 collagen, elastin, keratin, myosin, fibrin, polymers, polymers in living cells 1957 Sept p 204–216 [35] amoebae, cytology, sol-gel reaction, high pressure, effect of high pressure on cellular activity 1958 Oct p 36–43 aging, fibroblasts, mitosis, cell culture, somatic cells, DNA replication, experiments in aging 1968 Mar p 32–37 [1103] microsurgery, laser, physiology, laser lesions, cell organelle 1970 Feb p 98–110 [1170] cell aggregation, Volvox, metazoa, between single-celled and multi celled organisms tissue differentiation, cell 'recognition', cytology, embryonic development, how cells associate 1961 Sept p 142–165 cell differentiation, heart cells, heart contraction, myogenic rhythm, rat cardiac cells in vitro marine organisms, Mesozoa, multicellular organisms	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24–35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36–44 [1136] cell culture, cell hybridization, hybrid cells, Sendai virus, gene mapping, mouse-rat, mouse-human hybrid cells in laboratory 1969 Apr p 26–35 [1137] cell culture, cell-surface antigens, immune response, immunoglobin lymphocytes 1973 June p 82–91 [1275] antibodies, bursa, humoral immunity, B-cells, T-cells immune system, lymphocytes, thymus 1974 Nov p 58–72 [1306] regeneration, biological form, cellular polarity, embryonic development, Hydra, morphogenesis morphogens 1974 Dec p 44–54 [1309] regeneration, cockroach, embryo graft experiments, embryonic development, newt, biological form 1977 July p 66–81 [1363] cell division, see mitosis, meiosis cell evolution, chloroplast mitochondria, symbiosis, cell organelle, DNA prokaryote origin protein synthesis, plastids, extra-nuclear genetic activity in cell 1970 Nov p 22–29 [1203] cell organelle, chloroplast, endosymbiosis, eukaryotic cells mitochondria, symbiosis, prokaryotic cells, algae, cilia, flagella plastids 1971 Aug p 48–57 [1230] cell-free system, DNA synthesis virus \pi X 174, DNA polymerase, activated nucleotides first test-tube synthesis of biologically active DNA 1968 Oct p 64–78 [1124] cell fusion, mouse and human cells fused 1965 Apr p 62 cell hybridization, cell culture, cell differentiation, hybrid cells, Sendai virus, gene mapping mouse-rat, mouse-human hybrid cells in

2Ω

cell junctions, cell membrane, the three kinds of cell junction	calcium-ion activator, cell shape, embryonic development,
1978 May p 140–152 [1388]	microfilaments, microtubules 1971 Oct p 76–82 [1233]
cell life cycle, ascites tumor, isotopes, radioautography, cellular	ATP, axoneme, cilia, flagella, microtubules, how cilia move,
autobiography 1963 Aug p 103–110 [165]	paramecium, sperm 1974 Oct p 44–52 [1304]
cell membrane, 10n potential, nerve impulse, biological role of potassium	bacterial motility, chemotaxis, flagellar action, E coli
1949 Aug. p 16–21	1976 Apr p 40–47 [1337]
cell organelle, mitochondria, metabolism, enzymes, cell metabolism,	wound healing, cell tracks, embryonic development, tubulin, mitotic
'nowerhouse of the cell' 1957 July p 131–140 [30]	apparatus, cell motion made visible to naked eye
insulin, amino-acid sequence, sugar metabolism, human physiology,	1978 Apr p 68–76 [1386]
action of insulin 1958 May p 99-106	cell nucleus, cytosurgery, micromanipulator, on transplanting nuclei
pores, erythrocyte 1960 Dec p 146–156	1952 Apr p 58–64
pinocytosis cytology, cell metabolism, ingestion by outer membrane	cytoplasm, cell organelle, chromosome, cell physiology, RNA, DNA,
1961 Apr p 120–130	endoplasmic reticulum, cytology, nuclear control of cell
active transport, passive transport, pinocytosis, phagocytosis, cytology,	1960 Jan p 126–136
osmosis, fertilization, functions of cell membranes	Acetabularia, giant cells, mermaid's wineglass, cytoplasm, algae, giant
1961 Sept p 167–180 [96]	cells in study of nucleus-cytoplasm interaction
electron microscopy, endoplasmic reticulum, myelin sheath,	1966 Nov p 118–124 [1057]
mitochondria, nuclear membrane, electron microscope study of	chromatin, chromosomal proteins, DNA, gene regulation, histones,
membranes in cell 1962 Apr p 64–72 [151]	nucleoproteins, oxidative phosphorylation
kidney tubule, sodium pump, membrane potential, active transport,	1975 Feb p 46–57 [1315]
biological pumps 1962 Aug p 100–108	see also spermatozoon nucleus
phospholipids, phosphatidic acid cycle, nerve cells, cell secretion,	cell organelle, mitochondria, metabolism, enzymes, cell metabolism, cell
membrane transport potential 1965 Oct p 78–86 [1022]	membrane, 'powerhouse of the cell' 1957 July p 131-140 [36]
ATP, mutochondrion, glycolysis, enzymes, oxidative phosphorylation,	cell nucleus, cytoplasm, chromosome, cell physiology, RNA, DNA,
cell metabolism, mitochondrial membrane	endoplasmic reticulum, cytology, nuclear control of cell
1968 Feb p 32–39 [1101]	1960 Jan p 126–136
bacteriophage, receptor specificity, bacterial receptor sites, O antigen,	microsurgery, laser, cell, physiology, laser lesions
Salmonella 1969 Nov p 120–124 [1161]	1970 Feb p 98-110 [1170]
intercellular communication, salivary gland, epithelium, molecular	chloroplast, mutochondria, symbiosis, DNA, prokaryote origin, protein
signals, membrane permeability, junctions in cell membrane	synthesis, plastids, cell evolution, extra nuclear genetic activity in
1970 May p 78–86 [1178]	cell 1970 Nov p 22–29 [1203]
enzymes, artificial membranes, enzyme action, enzymes as industrial	cell evolution chloroplast, endosymbiosis, eukaryotic cells,
catalysts 1971 Mar p 26–33 [1216]	mitochondria, symbiosis, prokaryotic cells, algae, cilia, flagella,
membrane lipids, membrane permeability, phospholipids, membrane	plastids 1971 Aug p 48–57 [1230]
proteins, active transport 1972 Feb p 30-38 [1241]	peroxisome 1969 July p 52
immune response, organ transplant, tissue grafts, tissue typing, self-	ribosome, RNA, protein synthesis, structure of the ribosome
marker hypothesis 1972 June p 28–37 [1251]	1969 Oct p 28 [1157]
mitosis, mitotic spindle, cell reproduction, chromosome replication, cell	cell perfusion, axon, neurology, nerve conduction Schwann cell,
life cycle 1974 Jan p 54-64 [1288]	axoplasm, membrane potential perfusion technique, structure of
lipid molecules, membrane proteins, membrane structure, active	axonal tube, physiology of neural transmission, concentration
transport 1974 Mar p 26–33 [1292]	gradients 1966 Mar p 74-82 [1038]
cell secretion, endoplasmic reticulum, exocy tosis, membrane fusion,	cell physiology, cell nucleus, cytoplasm, cell organelle, chromosome,
fluid-mosaic model of membrane 1975 Oct p 28–37 [1328]	RNA, DNA, endoplasmic reticulum, cytology, nuclear control of cell
ATP, colicine, membrane energetics, active transport, E. coli	1960 Jan p 126–136
1975 Dec p 30-37 [1332]	baking, yeast, brewing riboflavin synthesis, cryptococcal meningitis,
antibodies, histocomptability, antigens, immune response,	fermentation yeasts, useful and noxious 1960 Feb p 136-144 aging, gerontology, life expectancy, manifestations of aging
immunoglobin, lymphocytes, B-cells T cells 1976 May p 30-39 [1338]	
	1962 Jan p 100-110 cell receptors, endocrine hormones, gene regulation, hormonal action,
bacteria, halobacteria, photosynthesis, rhodopsin, salt-loving bacteria 1976 June p 38-46 [1340]	protein synthesis, steroid hormones 1976 Feb p 32–43 [1334]
	protein synthesis, steroid hormones 1976 Feb p 32–43 [1334] cell 'recognition', cell aggregation, tissue differentiation, cytology.
agglutination response, cancer, immunology, lectins, proteins 1977 June p 108–119 [1360]	embryonic development, how cells associate 1961 Sept p 142–165
ATP, oxidative phosphorylation, active transport, mitochondrion,	cell reproduction, mitosis, mitotic spindle, cell membrane, chromosome
chloroplast, formation of the energy-exchange molecule in the cell	replication cell life cycle 1974 Jan p 54-64 [1288]
1978 Mar p 104–123 [1383]	see also chromosome replication, meiosis, mitosis
cell junctions, the three kinds of cell junction	cell secretion, cell membrane, phospholipids, phosphatidic acid cycle,
1978 May p 140-152 [1388]	nerve cells membrane transport potential 1965 Oct p 78–86 [1022]
membrane proteins 1975 June p 44	lactogenesis milk, mammary gland, casein, hormonal action,
cell memory, mollusk nerve cell 1965 Oct p 41	composition and synthesis of cow's milk 1969 July p 58-68
cell metabolism, cell organelle, mitochondria metabolism, enzymes cell	cell membrane endoplasmic reticulum, exocytosis membrane fusion,
membrane, 'powerhouse of the cell' 1957 July p 131–140 [36]	fluid mosaic model of membrane 1975 Oct p 28-37 [1328]
ATP, citric acid cycle, mitochondrion, mitochondrion as site of	cell shape, calcium-ion activator, cell motility, embryonic development
biological oxidation 1958 July p 56–62	microfilaments, microtubules 1971 Oct p 76-82 112331
cell membrane, pinocytosis cytology, ingestion by outer membrane	cell sorting, automatic cell sorting, fluorescence activated technique
1961 Apr p 120–130	1976 Mar p 108–117
ATP, chloroplast, mitochondrion photosynthesis, glucogenesis citric-	cell structure, wood cellulose lignin, grain structure 1953 Jan p. 64_67
acid cycle, glycolysis, oxidative phosphorylation cytology, cellular	neutron-beam scattering technique, protein synthesis, ribosome.
transformation of energy 1961 Sept p 62-73 [91]	structure of ribosome 1976 Oct p 44-54
ATP, mitochondrion glycolysis cell membrane, enzymes oxidative phosphorylation mitochondrial membrane	cell-surface antigens, cell culture cell differentiation, immune response,
1968 Feb p 32–39 [1101]	immunoglobin lymphocytes 1973 June p 82–91 [1275]
ACTH ATP, glucogenesis glycolysis hormone, epinephrine, cyclic	blood plasma, collagen glycoproteins, interferon, protein molecule
AMP, activation of cyclic AMP by hormones	antibodies cancer concer concer (2005)
1972 Aug p 97-105 [1256]	antibodies cancer, cancer immunology, immunopotentiators immune
cell motility, amochae phagocytosis cytoplasmic streaming sol-gel	response tumor-specific antigens, leukemia, transplantation antigens
reaction front contraction theory of amoeboid motion	antigens graft rejection histocompatability, immune response, H-2
1962 Feb p 112-122 [182]	antigens HLA antigens 1977 Oct p 96-107 (1360)
• • •	antigens HLA antigens 1977 Oct p 96–107 [1369]

cell tracks, cell moulity, wound healing embryonic development, tubulin,	
mitotic apparatus, cell motion made visible to naked eye	interneuron, motor neuron stretch soffer Parchay !!
m gold dust 1978 Apr p 68-76 [1386]	1966 May n 102 110
in gold dust 1977 Sept p 102 cell transformation, gene culture, polyoma virus, SV40 virus, viral DNA,	animal behavior, mollusks, neurophysiology 1971 Feb n 68,75 117121
viral carcinogenesis 1967 Apr. p. 28–37 110691	Utilitati symmetry, telleright act monates, manage engage
cell wall, gene transformation, pneumococcus, recombinant DNA.	1971 Mar n 96_104 15351
transformation induced by factor synthesized by cell	drug-induced imagery, hallucination, perceptual illusions, perceptual-
1969 Jan p 38–44	release theory 1977 Oct p 132–140 15791
bacterial cell, bacterial metabolism, penicillin, polysaccharides,	the state of the s
glycopeptides, membrane 1969 May p 92-98	of China, Guatemala, rural markets 1975 May p 66-79
cellulose, monosaccharides, plant cell, polysaccharides	
1975 Apr p 80-95 [1320]	compressor, ducted fan, electric power generation
cello, bass, viola, violin, Chladni patterns, music, musical instruments,	1953 Nov p 65-72 centrifuge, blood plasma, blood fractionation, erythrocyte, leukocyte,
physics of violins 1962 Nov p. 78-93	
cellular polarity, regeneration, biological form, cell differentiation,	platelets, blood transfusion, blood banks 1954 Feb p 54-62 centrioles, mitotic spindle, sea urching egg, chromosome, digitonin
embry onic development, Hydra, morphogenesis, morphogens	1953 Aug p 53-63
1974 Dec p 44-54 [1309]	C.E.P.: circular error probability
cellulose, synthetic fiber, rayon, nylon, synthetic macromolecules, glass,	C.L.P., counterforce strategy, atomic weapons, cruise missiles, MIRV,
man-made textile fibers 1951 July p 37-45	arms race, missile accuracy, strategic weapons, accuracy as multiplier
wood, lignin, cell structure, grain structure 1953 Jan p 64-67	of force 1975 July p 14-23
soil conditioners, humus, polyacrylates, polyvinylites, tilth	cephalization index, brain evolution, brain size, endocranial casts
1953 Aug p 36–38	intelligence, paleoneurology 1976 Jan p 90-101 [568]
rayon, forest products, crystal structure, lignin, polymers, paper,	cephalopods, squid, giant axon, nerve impulse 1951 Apr p 64-69
polysacchandes, overview of natural polymer 1957 Sept p 156-168	Cepheid variable, universe expansion, Clouds of Magellan, Andromeda
algae, xylan, mannan, plant cell wall, xylan, mannan in place of	Galaxy, galactic yardstick, doubling of yardstick doubles size and
cellulose in marine plant tissue 1968 June p 102-108 [1110]	age of the universe 1953 June p 56-66
forest products, wood pulp, paper, lignin, rayon, waste recycling, kraft	galactic evolution, 'cosmic yardstick', universe evolution
process 1974 Apr p 52-62	invisible twin North Star of Polaris 1959 July p 48-55 1956 Feb p 56
cell wall, monosacchandes, plant cell, polysacchandes 1975 Apr p 80-95 [1320]	invisible twin North Star of Polaris 1956 Feb p 56 cosmology, intergalactic yardstick lengthens 1958 Sept p 86
molecule synthesized 1957 Aug p 60	ceramics, materials technology, glass fiber, optical glass, amorphous
cellulose digestion, ruminants, metabolism, symbiosis, anaerobic	solid, properties of glass as 'undercooled liquid' 1961 Jan p 92-104
metabolism, fermentation, how cows digest grass	glass, metals, materials technology, polymers, chemical band,
1958 Feb p 34-38	composite materials, atom, elements, introduction to single-topic
shipworm, Teredo, natural history 1961 Feb p 132-142	issue on materials 1967 Sept p 68-79
Celtic Britain, archeology, Celtic culture, Gussage site	aluminates, materials technology, crystal structure, silicates, heat
1977 Dec p 156-159 [702]	resistance, ionic bonds, covalent bonds, nature of ceramics
Celtic culture, archeology, Celtic Britain, Gussage site	ductility in single-crystal magnesium oxide 1958 Apr p 50
1977 Dec p 156-159 [702]	ductility in single-crystal magnesium oxide 1958 Apr p 50 cerebellar cortex, brain, brain circuitry, neuronal networks, Putkinje
Celtic religion, Gauls in France, Seine River source, shrine of Sequana 1971 July p 65-73	cells, mossy fibers 1975 Jan p 56-71 [1312]
cement, concrete, Portland cement, hydration, X-ray diffraction,	cerebellum, brain, cerebral cortex, cerebrum, brain surgery.
chemistry of concrete 1964 Apr p 80–92	electroencephalography, 'the great raveled knot', localization of
chemical reaction, high-alumina cement, Portland cement, cement	brain function 1948 Oct p 26-39 [13]
hardening and strength 1977 July p 82–90 [370]	brain, central nervous system cerebrum, neurophysiology, cerebral-
census, USSR. 1959 Sept p 104	cerebellar coordination 1958 Aug p 84-90 [38]
see also U.S. census	brain organization, cerebral motor cortex, muscle control, monkey
center-pivot irrigation, irrigation, ground water, agricultural technology	experiments 1973 July p 96–103 [1277] cerebral cortex, brain, cerebrum, cerebellum, brain surgery,
1976 June p 30-33	electroencephalography, 'the great raveled knot', localization of
central city, US census, urbanization, age-sex distribution, baby boom, family size, suburbs, US census at 1960 1961 July p 39-45	brain function 1948 Oct p 26-39 [13]
family size, suburbs, US census at 1960 1961 July p 39-45	memory, brain, learning fundamental research, What is memory?
housing, urban planning, suburbs, cities, metropolitan area, conurbation, evolution of the metropolis 1965 Sept p 64-74	1953 Sept p 118-126 [11]
local government cities New York, metropolitan region, suburbs,	creativity, neurophysiology, imagination, neuronal networks
Morthaget Corridor regional planning 1900 Sept p 134-140	physiology of imagination 1958 Sept p 135-146 [65]
when mlanging nities highway engineering, mass transit, open space,	mammalian brain, corpus callosum, brain hemispheres split-brain
3	experiments, monkey, cat, human post-operative subject 1964 Jan p 42-52 [174]
central nervous system, poliomyelitis virus, infective specificty, infective	animal behavior, learning striatum, bird nervous system, crows
specificity, epidemiology, nature of the disease and public methods	pigeons, canaries, chickens 1968 June p 64-76 [515]
status before production of the vaccines 1950 Aug p 22-26 acetylcholine, hormone, nerve impulse, serotonin, synapse, emotional acetylcholine, hormone, nerve impulse, serotonin, synapse, emotional	brain damage, speech, writing, brain hemispheres, functional
	organization of the brain 1970 Mar p 66-78 [526]
1. trans of name in the second	information processing 1956 Oct p 72
the manufacture brain perception, motor reneas	see also visual cortex cerebral dominance, brain hemispheres, perception, split-brain
	experiments, corpus callosum, intelligence, language, localization of
	brain function 1967 Aug p 24-29 [508]
brain, cerebellum, cerebrum, neurophysiology, cerebral-cerebellar 1958 Aug p 84-90 [38]	brain hemispheres, left-hemisphere functions, music perception right-
coordination ganglion reflexes.	hemisphere functions, auditory perception, visual perception
coordination cell communication, nerve conduction, ganglion reflexes, neuroreceptors, retina, nerve impulse, neurotransmitters, neural neuroreceptors, retina, nerve impulse, neurotransmitters, neural	1973 Mar p 70-78 [554] auditory perception brain hemispheres, musical illusions handedness
neuroreceptors, retina, nerve impulse, incutorial neuroreceptors, ne	hearing illusions, perception two-tone illusions franced master in the state of the
synapse, cytology, neuromuscular synapse, now 1961 Sept p 209–220 [98]	19/2 Uct p 92~104 (566)
computer technology, redundancy, rehability, error suppression 1964 Feb p 103-112 [298]	parabral hamarchaga, surgery, cerebral vascular accident, atherosclerosis,
1964 Feb p 103-112 [270]	microvascular surgery, repair and prevention of stroke by
	microvascular bypass operation 1978 Apr p 58-67 [1385]

erebral motor cortex, brain organization, cerebellum, muscle control,	digital computer, magnetic bubble memories, moving-surface
monkey experiments 1973 July p 96–103 [127/]	memories, semiconductor memories, microelectronics
erebral organization, split-brain 1961 Aug p 66	1977 Sept p 130–145 [378] find early application 1972 June p 52
erebral palsy, brain damage, birth trauma. asphyxia, monkey	find early application 1972 June p 52 charge distribution, atomic nucleus, nuclear fission, nuclear probe, shell
experiments, implications for human infants 1969 Oct p 76-84 [1158]	model, shape and size of nucleus 1969 Aug p 58–73
cerebral vascular accident, surgery, atherosclerosis, microvascular surgery,	charge exchange, atomic nucleus, shell model, optical model, high-energy
cerebral hemorrhage, repair and prevention of stroke by	physics, liquid-drop model, spin-orbit force, resonance 'particles',
microvascular bypass operation 1978 Apr p 58–67 [1385]	proton, neutron, structure of the nucleus 1959 Jan p 75-82
cerebrospinal fluid, sleep deprivation, goat experiments	charge parity, see CP
1976 Aug p 24–29 [571]	charge parity time, see CPT charge transfer, charge-coupled devices, computer memory, image
cerebrum, brain, cerebral cortex, cerebellum, brain surgery,	sensing, semiconductor memories 1974 Feb p 22–31
electroencephalography, 'the great raveled knot', localization of brain function 1948 Oct p 26-39 [13]	charm, antimatter, electron-positron annihilation, J particle, psi particle,
brain, cerebellum, central nervous system, neurophysiology, cerebral-	color, quark, high-energy physics, storage rings, virtual particles
cerebellar coordination 1958 Aug p 84–90 [38]	1975 June p 50–62
Cerenkov radiation, Compton effect 1951 Oct p 54-55	charmed quarks, charmonium, high-energy physics, gauge theory,
high-energy physics, tachyons, speed of light, special relativity,	hadrons, leptons, quark hypothesis, 'color' and 'flavor' in quarks 1975 Oct p 38-50
hypothetical particles faster than light 1970 Feb p 68-77 for particle counting 1952 Aug p 33	hadrons, high-energy physics, quantum mechanics, quark, charm
for particle counting 1952 Aug p 33 cermets, composite materials, dispersion-strengthened composites, fiber-	1977 Oct p 56–70 [388]
reinforced composites, particulates 1973 July p 36-44	charmonium, charmed quarks, high-energy physics, gauge theory,
C.E.R.N.: European Organization for Nuclear Research	hadrons, leptons, quark hypothesis, 'color' and 'flavor' in quarks
C.E.R.N., nuclear power, 'atoms for peace', thermonuclear reaction,	1975 Oct p 38–50
fission reactor, fusion reactor, first of a four-part report on the	Chaucer, amateur astronomer 1952 Dec p 30 Chédiak-Higashi syndrome, brain disease, scrapie, kuru, virus disease,
International Conference on the Peaceful Uses of Atomic Energy, Geneva. August 1945 1955 Oct. p. 27-33	animal vectors, multiple sclerosis 1967 Jan p 110–116
Geneva, August 1945 colliding-beam accelerator, high-energy physics, particle interaction,	cheetah, badger, dog, horse, locomotion, deer, comparative anatomy,
proton-proton interaction 1973 Nov p 36-44	running, how animals run 1960 May p 148-157
Bloch director 1954 Sept p 74	Chekhov, as physician 1974 Nov p 54
Bakker, director 1955 May p 50	chelate, poisons, ionizing radiation, radioautography, 'bone-seekers',
300-GeV particle accelerator 1971 Apr p 49	scintillation counter 1955 Aug p 34–39 chelate cage, laser, liquid lasers, rare-earth ions, solvation shell,
ceruloplasmin, hemocyanın, oxygen transport, enzymes, copper deficiency, cytochrome oxidase, copper biochemistry, Wilson's	comparison of liquid, gas and solid-state lasers 1967 June p 80–90
disease, tyrosinase 1968 May p 102–114	chelation, metal ions, sequestering, ring compounds, porphyrin ring,
cesium clock, atomic clock, ammonia maser, maser, zenith tube, mercury	organometallic compounds, metal-poisoning antidote, chemical
mirror, improvements on sidereal time 1957 Feb p 71–82 [225]	separation 1953 June p 68–76
length standard, mass standard, time standard, temperature standard,	berylliosis, occupational health, phosphorus, fluorescent light, high technology disease 1958 Aug p 27–33
interferometry, measurement 1968 June p 50-62 cesium-ion beam, ion propulsion, plasma jet, jet velocity,	technology disease 1958 Aug p 27–33 hemochromatosis, lead poisoning pharmacology, drug action, Wilson's
magnetohydrodynamics, electrical propulsion, space exploration	disease, metal poisoning, heavy metal poisoning, bone cancer,
1961 Mar p 57-65	salicylates, aspirin, cancer therapy, chemotherapy, medical
cetacea, see whale, porpoises	exploitation of chelates 1966 May p 40-50
Chaga's disease, public health, 'zoonoses', parasitism, trypanosomiasis, malaria, filariasis, leishmaniasis, plague, yellow fever, typhus,	chemical accelerators, molecular beam, ion beam, sputtering, high-energy chemistry 1968 Oct. p. 44-52
epidemiology, animal infection and human disease	chemistry 1968 Oct p 44-52 benzene, carbon chemistry, origins of life, high-energy carbon reactions
1960 May p 161–170	1975 Jan p 72–79
insect venom, assassin bugs, predator-prey relationship, entomology,	chemical analysis, infrared spectroscopy, molecular bonds, molecular
natural history 1960 June p 72–78	vibrations 1953 Oct p 42–48 [257]
chain reaction, free radicals, chain initiators, half-life reaction kinetics 1953 Dec p 74–78	prospecting, uranium ore, chemical prospecting 1957 July p 41–47 chemical band, glass, metals, materials technology, ceramics, polymers,
Challenger, oceanography, marine biology 1953 May p 88–94	composite materials, atom, elements, introduction to single-topic
chalone, cell-division depresser 1967 July p 44	issue on materials 1967 Sept. p. 68–79
chambered nautilus, marine biology, buoyancy, swim bladder, cuttlebone	chemical-biological warfare, bacteria, chemical weapons, biological
1960 July p 118–128 chameleon, hyla, catfish, skin color, chromatophores, how animals	weapons Vietnam war, arms race, CS gas, virus disease, rickettsiae, tear gas, herbicide 1970 May p. 15-25 111761
change color 1952 Mar p 64-67	tear gas, herbicide 1970 May p 15-25 [1176] U S policy 1966 Apr p 49
chance, probability, odds, calculus of chances, causation, philosophy of	U S policy 1970 Jan p 48
science, logician's point-of-view 1965 Oct p 44-54	Geneva Protocol 1975 Mar p. 47
Chandler wobble, earthquake effects, Earth rotation, precession 1971 Dec p 80-88 [897]	chemical bond, ionic bonds, covalent bonds, hydrogen bonds. Van der
Channeled Scabland, post-glacial 'catastrophe' 1974 June p 52	Waals force, long-range forces, antigen-antibody reaction, proposed intermolecular long-range force 1948 Oct p. 14-17
channeling, crystal structure, ion beam 1968 Mar p 90-98	radioactive decay, 'hot atom' chemistry 1950 Mar p 44–47
Charente skull, Homo sapiens Neanderthal man, Galley Hill skull.	chemistry, molecular structure, crystal structure, protein structure
human evolution, Swanscombe cranium, antiquity of Homo sapiens	chemical kinetics, science, chemistry 1900-1950 1950 Sept. p. 32-35
1948 July p 16–19 charge carriers, electrical conductivity, Fermi surface, semiconductor,	quantum mechanics noble gases, compounds of 'inert elements'
materials technology, quantum mechanics, electron mean free path.	1964 May p 66-77 conformational isomerism, hydrocarbons, organic molecules
electrical properties of materials 1967 Sept. p. 194-204	conformation and reactivity 1970 Jan n 58 70 (221)
charge-changing accelerator, particle accelerator, Van de Graaf generator,	aging radiation damage, free radicals, electron-crip recogance
charge conservation, time reversal, symmetry, parity, lambda decay, CPT	spectroscopy, effects of free radicals on living systems
conservation, proton spin, experiments in time reversal	atomic nucleus energy levels, gamma radiation, molecular structure,
1969 Oct p. 88-101	MOSSOGUEI SPECIFOSCOPY 1071 On the second
charge-coupled devices, charge transfer, computer memory, image sensing, semiconductor memories 1974 Feb. p. 22–31	chemical communication, see neurotransmittees photomore
sensing, semiconductor memories 1974 Feb p 22–31	compound reporting center, National Research Council
	1948 Oct p 25

chemical defense, sawfly larva 1974 July p. 49	
chemical defense, sawfly farva chemical effects, ionizing radiation, photoelectric effect, Compton effect,	2 Anion
cytology, free radicals, lethal effects of radiation 1951 Dec p 22-22	Livoisier 1956 May n
chemical equilibrium, chemical reaction, chemical kinetics, allosteric	, which believe, or action, taste
enzymes, proton transfer, enzymes, catalysis, relaxation methods in	1952 Mar p 28-3:
chemistry 1969 May n. 3041	taste receptors, blowfly 1961 May p 15 mosquito repellants, mosquito targets 1975 July p 16
chemical evolution, carbonaceous chondrites, meteoritic amino acids	chemosensors, see chemoreceptor
meteoritic hydrocarbons, Oparin-Haldane hypothesis	chemotaxis, salmon, fish migration, homing behavior, animal navigi
1972 June p 38-46 [902]	
chemical experimentation, Boyle's law, pneumatics, science history,	1955 Aug p bioluminescence, firefly, insect behavior, insect physiology, lucife
philosophy 1967 Aug p 96–102	luciferase, biochemistry of bioluminescence
chemical industry, acetylene, plastics 1949 Jan p 16-21	1962 Dec p 76-89
plant growth, food production, fertilizers, agricultural technology,	insecticide, insect attractant, synthetic attractants, odor-baited lur
increasing world food supply 1965 June p 62–72	pheromones, third-generation insecticides 1964 Aug. p. 20-27
Germany, recovering from war 1949 June p 28 plant expansion 1953 Mar p 47	Proceed business, butters
plant expansion 1953 Mar p 47 chemical kinetics, chemistry, chemical bond, molecular structure, crystal	12/1 1/10 p 20 100 [
structure, protein structure, science, chemistry 1900-1950	animal navigation, herring, shad migration, homing behavior,
1950 Sept. p. 32–35	temperature as migration control 1973 Mar p 92–98 [
Name chemistry, flash tube, ram jet, heat, velocity, luminosity,	gypsy moth, biological pest control, pheromones, olfactory recepte sex attractants, silk moth, communication 1974 July p 28-35 [
spectroscopy 1953 May p 29-35	bacterial motility, cell motility, flagellar action, E coli
chemical reaction, allosteric enzymes, proton transfer, enzymes,	1976 Apr p 40-47 [
catalysis, chemical equilibrium, relaxation methods in chemistry	insecticide, sex-hormone attractant 1953 Dec
1969 May p 30-41	chemotherapy, leukemia, leukocyte, cancer, virus, ionizing radiation,
chemical laser, laser, infrared radiation, chemical pumping	Down's syndrome, origin and treatment of lymphocytic and
1966 Apr p 32-39 [303]	granulocytic leukemia 1964 May p 8
hydrogen-chlorine reaction 1965 Apr p 58	chelation, hemochromatosis, lead poisoning, pharmacology, drug
chemical milling, etching, metal cutting, operation of chemical mill	action, Wilson's disease, metal poisoning, heavy metal poisoning
chemical mutagens, agronomy, plant breeding 1971 Jan p 86-95 [1210]	bone cancer, salicylates, aspirin, cancer therapy, medical exploitation of chelates 1966 May p 40
chemical pesticides, US legislation 1963 July p 64	drug effects, liver function, pharmacology, vaccine, hormone,
chemical publication, US leading 1948 Dec p 26	antibiotics, medical care, herbial medicine 1973 Sept p 102-
chemical pumping, chemical laser, laser, infrared radiation	cyanate, genetic disease, anemia, hemoglobin, erythrocyte, sickle ce
1966 Apr p 32-39 [303]	disease 1975 Apr p 44-50 []
chemical raw material, coal, fossil fuel, coking, 'water gas' process,	see also antibiotics, cancer therapy, nitrogen mustard and the like
hydrogenation 1955 July p 58-67	chernozems, soil structure, podzols, latozols, tundra, alluvial soils,
chemical reaction, photolysis, photochemistry, reaction kinetics, free	agronomy, ecology of soil, soil erosion, the soils of the world and their management 1950 July p 30
radicals, spectroscopy, color centers, high speed chemistry 1960 May p 134-145	cherry picker, mechanical harvesting, cotton picker, agricultural
nuclear reaction, hot-atom chemistry, hydrogen, chemistry at high	technology, tomato harvester, hay cuber, grain combine
velocity 1966 Jan p 82–90	1967 Aug p 50
chemical kinetics, allosteric enzymes, proton transfer, enzymes,	chess, see computer chess
catalysis, chemical equilibrium, relaxation methods in chemistry 1969 May p 30-41	chest X-rays, greater hazard than TB 1958 Jan p chick-embryo culture, virus, herpes simplex, symbiosis
catalysis, industrial processes, petroleum cracking 1971 Dec p 46-58	1949 Nov p 50
computer modeling, oscillating reagents, rotating chemical reactions,	influenza virus, immunization, hemagglutination, genetic variation,
non-linear reactions 1974 June p 62-93	vaccine, difficulty in securing flu immunization 1953 Apr p 27-
carbenes, carbon chemistry, molecular orbitals, reactive intermediates	rickettsiae, typhus, Rocky Mountain spotted fever 1955 Jan p 74-
19/6 Feb p 101-113	chicken, social behavior, pecking order, sexuality and dominance 1956 Feb p 42-46 [4]
cement, high-alumina cement, Portland cement, cement hardening and strength 1977 July p 82–90 [370]	animal behavior, incubator birds, eggs, fowl, ornithology, hatching eg
chemical senses, olfaction, taste, chemoreceptor	
chemical conces, offaction, taste, chemorecopior	in hot places 1939 Aug p 32
1952 Mar p 28–32 [404]	agricultural technology, poultry production, food production, animal
1952 Mar p 20-52 [404]	agricultural technology, poultry production, food production, animal husbandry, eggs, U S chicken factories 1966 July p 56-4
silkworm, olfaction, taste, insect chemoreception, comparative	agricultural technology, poultry production, food production, animal husbandry, eggs, U S chicken factories 1966 July p 56-4 hone, calcium metabolism, eggshell, calcite, mobilization of calcium
silkworm, olfaction, taste, insect chemoreception, comparative physiology 1958 Apr p 97–106 physiology netal ions, sequestering, ring compounds,	agricultural technology, poultry production, food production, animal husbandry, eggs, U S chicken factories 1966 July p 56-6 bone, calcium metabolism, eggshell, calcite, mobilization of calcium from bone 1970 Mar p 88-95 [117]
silkworm, olfaction, taste, insect chemoreception, comparative physiology 1958 Apr p 97-106 chemical separation, chelation, metal ions, sequestering, ring compounds, porphyrin ring, organometallic compounds, metal-poisoning	agricultural technology, poultry production, food production, animal husbandry, eggs, U S chicken factories 1966 July p 56-6 bone, calcium metabolism, eggshell, calcite, mobilization of calcium from bone 1970 Mar p 88-95 [117] chicken now, heroes zoster immune globulin 1969 Aug p 5
silkworm, olfaction, taste, insect chemoreception, comparative physiology 1958 Apr p 97–106 chemical separation, chelation, metal ions, sequestering, ring compounds, porphyrin ring, organometallic compounds, metal-poisoning 1953 June p 68–76	agricultural technology, poultry production, food production, animal husbandry, eggs, U S chicken factories 1966 July p 56-tone, calcium metabolism, eggshell, calcite, mobilization of calcium from bone 1970 Mar p 88-95 [117] chicken pox, herpes zoster immune globulin child development, growth rate, Denver longitudinal study, changes in proportion 1953 Oct p 65-76 [106].
silkworm, olfaction, taste, insect chemoreception, comparative physiology 1958 Apr p 97-106 chemical separation, chelation, metal ions, sequestering, ring compounds, porphyrin ring, organometallic compounds, metal-poisoning antidote 1953 June p 68-76 gas chromatography, sensitivity and application 1961 Oct p 58-67 [276]	agricultural technology, poultry production, food production, animal husbandry, eggs, U S chicken factories 1966 July p 56-tone, calcium metabolism, eggshell, calcite, mobilization of calcium from bone 1970 Mar p 88-95 [117] chicken pox, herpes zoster immune globulin 1969 Aug p child development, growth rate, Denver longitudinal study, changes in proportion 1953 Oct p 65-76 [106] mathematical concepts, how children form mathematical concepts
silkworm, olfaction, taste, insect chemoreception, comparative physiology 1958 Apr p 97–106 chemical separation, chelation, metal ions, sequestering, ring compounds, porphyrin ring, organometallic compounds, metal-poisoning antidote 1953 June p 68–76 gas chromatography, sensitivity and application 1961 Oct p 58–67 [276]	agricultural technology, poultry production, food production, animal husbandry, eggs, U S chicken factories 1966 July p 56-tone, calcium metabolism, eggshell, calcite, mobilization of calcium from bone 1970 Mar p 88-95 [117] chicken pox, herpes zoster immune globulin 1969 Aug p child development, growth rate, Denver longitudinal study, changes in proportion 1953 Oct p 65-76 [106] mathematical concepts, how children form mathematical concepts 1953 Nov p 74-79 [426]
silkworm, olfaction, taste, insect chemoreception, comparative physiology 1958 Apr p 97–106 chemical separation, chelation, metal ions, sequestering, ring compounds, porphyrin ring, organometallic compounds, metal-poisoning antidote gas chromatography, sensitivity and application 1961 Oct p 58–67 [276] chemical topology, catenane, topological isomer, cyclic molecules,	agricultural technology, poultry production, food production, animal husbandry, eggs, U S chicken factories 1966 July p 56-tone, calcium metabolism, eggshell, calcite, mobilization of calcium from bone 1970 Mar p 88-95 [117] chicken pox, herpes zoster immune globulin 1969 Aug p 5 child development, growth rate, Denver longitudinal study, changes in proportion 1953 Oct p 65-76 [106] mathematical concepts, how children form mathematical concepts 1953 Nov p 74-79 [426] Lorentz transformation, Einstein, relativity, child's view of reality 1957 Mar p 46-5
silkworm, olfaction, taste, insect chemoreception, comparative physiology chemical separation, chelation, metal ions, sequestering, ring compounds, porphyrin ring, organometallic compounds, metal-poisoning antidote gas chromatography, sensitivity and application 1961 Oct p 58-67 [276] chemical topology, catenane, topological isomer, cyclic molecules, molecular structure, ring molecules, linking and knotting of ring 1962 Nov p 94-102 [286]	agricultural technology, poultry production, food production, animal husbandry, eggs, U S chicken factories 1966 July p 56-tone, calcium metabolism, eggshell, calcite, mobilization of calcium from bone 1970 Mar p 88-95 [117] chicken pox, herpes zoster immune globulin 1969 Aug p 5 child development, growth rate, Denver longitudinal study, changes in proportion 1953 Oct p 65-76 [106] mathematical concepts, how children form mathematical concepts 1953 Nov p 74-79 [420] Lorentz transformation, Einstein, relativity, child's view of reality 1957 Mar p 46-5 adolescence, growth, menarche, earlier maturation of children in
silkworm, olfaction, taste, insect chemoreception, comparative physiology 1958 Apr p 97–106 chemical separation, chelation, metal ions, sequestering, ring compounds, porphyrin ring, organometallic compounds, metal-poisoning antidote 1953 June p 68–76 gas chromatography, sensitivity and application 1961 Oct p 58–67 [276] chemical topology, catenane, topological isomer, cyclic molecules, molecular structure, ring molecules, linking and knotting of ring molecules 1962 Nov p 94–102 [286] chemical weapons, bacteria, biological weapons, Vietnam war, arms race, the mical weapons, bacteria, biological weapons, Vietnam war, arms race,	agricultural technology, poultry production, food production, animal husbandry, eggs, U S chicken factories 1966 July p 56-tone, calcium metabolism, eggshell, calcite, mobilization of calcium from bone 1970 Mar p 88-95 [117] chicken pox, herpes zoster immune globulin 1969 Aug p child development, growth rate, Denver longitudinal study, changes in proportion 1953 Oct p 65-76 [106] mathematical concepts, how children form mathematical concepts 1953 Nov p 74-79 [426] Lorentz transformation, Einstein, relativity, child's view of reality 1957 Mar p 46-5 adolescence, growth, menarche, earlier maturation of children in 1968 Jan p 21-2'
silkworm, olfaction, taste, insect chemoreception, comparative physiology 1958 Apr p 97–106 chemical separation, chelation, metal ions, sequestering, ring compounds, porphyrin ring, organometallic compounds, metal-poisoning antidote 1953 June p 68–76 gas chromatography, sensitivity and application 1961 Oct p 58–67 [276] chemical topology, catenane, topological isomer, cyclic molecules, molecular structure, ring molecules, linking and knotting of ring molecules 1962 Nov p 94–102 [286] chemical weapons, bacteria, biological weapons, Vietnam war, arms race, CS gas, virus disease, rickettsiae, tear gas, herbicide, chemical [1970 May p 15–25 [1176]]	agricultural technology, poultry production, food production, animal husbandry, eggs, U S chicken factories 1966 July p 56-6 bone, calcium metabolism, eggshell, calcite, mobilization of calcium from bone 1970 Mar p 88-95 [117] chicken pox, herpes zoster immune globulin 1969 Aug p 5 child development, growth rate, Denver longitudinal study, changes in 1953 Oct p 65-76 [106] mathematical concepts, how children form mathematical concepts 1953 Nov p 74-79 [42] Lorentz transformation, Einstein, relativity, child's view of reality 1957 Mar p 46-5 adolescence, growth, menarche, earlier maturation of children in industrial countries 1968 Jan p 21-2 behavior, self-esteem, personality 1968 Feb p 96-106 [51]
silkworm, olfaction, taste, insect chemoreception, comparative physiology 1958 Apr p 97–106 chemical separation, chelation, metal ions, sequestering, ring compounds, porphyrin ring, organometallic compounds, metal-poisoning antidote 1953 June p 68–76 gas chromatography, sensitivity and application 1961 Oct p 58–67 [276] chemical topology, catenane, topological isomer, cyclic molecules, molecular structure, ring molecules, linking and knotting of ring molecules 1962 Nov p 94–102 [286] chemical weapons, bacteria, biological weapons, Vietnam war, arms race, CS gas, virus disease, rickettsiae, tear gas, herbicide, chemical biological warfare 1970 May p 15–25 [1176]	agricultural technology, poultry production, food production, animal husbandry, eggs, U S chicken factories 1966 July p 56-bone, calcium metabolism, eggshell, calcite, mobilization of calcium from bone 1970 Mar p 88-95 [117] chicken pox, herpes zoster immune globulin 1969 Aug p child development, growth rate, Denver longitudinal study, changes in proportion 1953 Oct p 65-76 [106] mathematical concepts, how children form mathematical concepts 1953 Nov p 74-79 [42]. Lorentz transformation, Einstein, relativity, child's view of reality 1957 Mar p 46-5 adolescence, growth, menarche, earlier maturation of children in industrial countries 1968 Jan p 21-2: behavior, self esteem, personality 1968 Feb p 96-106 [51] personality parental care, infant behavior, temperament, interaction of
silkworm, olfaction, taste, insect chemoreception, comparative physiology 1958 Apr p 97–106 chemical separation, chelation, metal ions, sequestering, ring compounds, porphyrin ring, organometallic compounds, metal-poisoning antidote gas chromatography, sensitivity and application 1961 Oct p 58–67 [276] chemical topology, catenane, topological isomer, cyclic molecules, molecular structure, ring molecules, linking and knotting of ring molecules themical weapons, bacteria, biological weapons, Vietnam war, arms race, CS gas, virus disease, rickettsiae, tear gas, herbicide, chemical-biological warfare chemistry, chemical bond, molecular structure, crystal structure, protein chemistry, chemical bond, molecular structure, chemistry, 1900–1950	agricultural technology, poultry production, food production, animal husbandry, eggs, U S chicken factories 1966 July p 56-tone, calcium metabolism, eggshell, calcite, mobilization of calcium from bone 1970 Mar p 88-95 [117] chicken pox, herpes zoster immune globulin 1969 Aug p 5 child development, growth rate, Denver longitudinal study, changes in proportion 1953 Oct p 65-76 [106] mathematical concepts, how children form mathematical concepts 1953 Nov p 74-79 [42] Lorentz transformation, Einstein, relativity, child's view of reality 1957 Mar p 46-5 adolescence, growth, menarche, earlier maturation of children in industrial countries 1968 Jan p 21-2 behavior, self esteem, personality 1968 Feb p 96-106 [511 personality, parental care, infant behavior, temperament, interaction of temperament and environment, nature nurture 1970 Aug p 102-109 [529]
silkworm, olfaction, taste, insect chemoreception, comparative physiology chemical separation, chelation, metal ions, sequestering, ring compounds, porphyrin ring, organometallic compounds, metal-poisoning antidote gas chromatography, sensitivity and application [961 Oct p 58-67 [276]] chemical topology, catenane, topological isomer, cyclic molecules, molecules, molecules, linking and knotting of ring molecules chemical weapons, bacteria, biological weapons, Vietnam war, arms race, CS gas, virus disease, rickettsiae, tear gas, herbicide, chemical-biological warfare chemistry, chemical bond, molecular structure, crystal structure, protein structure, chemical kinetics, science, chemistry 1900-1950 structure, chemical kinetics, science, chemistry 1900-1950 1950 Sept p 32-35	agricultural technology, poultry production, food production, animal husbandry, eggs, U S chicken factories 1966 July p 56-1 bone, calcium metabolism, eggshell, calcite, mobilization of calcium from bone 1970 Mar p 88-95 [117] chicken pox, herpes zoster immune globulin 1969 Aug p 5. child development, growth rate, Denver longitudinal study, changes in proportion 1953 Oct p 65-76 [106] mathematical concepts, how children form mathematical concepts 1953 Nov p 74-79 [426] Lorentz transformation, Einstein, relativity, child's view of reality 1957 Mar p 46-5 adolescence, growth, menarche, earlier maturation of children in industrial countries 1968 Jan p 21-2 behavior, self esteem, personality 1968 Feb p 96-106 [511 personality, parental care, infant behavior, temperament, interaction of temperament and environment, nature nurture 1970 Aug p 102-109 [529] social discrimination, discrimination, group behavior, 'in vs out' group
silkworm, olfaction, taste, insect chemoreception, comparative physiology 1958 Apr p 97–106 chemical separation, chelation, metal ions, sequestering, ring compounds, porphyrin ring, organometallic compounds, metal-poisoning antidote 1953 June p 68–76 gas chromatography, sensitivity and application 1961 Oct p 58–67 [276] chemical topology, catenane, topological isomer, cyclic molecules, molecular structure, ring molecules, linking and knotting of ring molecules 1962 Nov p 94–102 [286] chemical weapons, bacteria, biological weapons, Vietnam war, arms race, CS gas, virus disease, rickettsiae, tear gas, herbicide, chemical-biological warfare chemistry, chemical bond, molecular structure, crystal structure, protein structure, chemical kinetics, science, chemistry 1900-1950 1950 Sept p 32–35 plutonium, ultra-microchemistry, embryonic development, cytology,	agricultural technology, poultry production, food production, animal husbandry, eggs, U S chicken factories 1966 July p 56-1 bone, calcium metabolism, eggshell, calcite, mobilization of calcium from bone 1970 Mar p 88-95 [117] chicken pox, herpes zoster immune globulin 1969 Aug p child development, growth rate, Denver longitudinal study, changes in proportion 1953 Oct p 65-76 [106] mathematical concepts, how children form mathematical concepts 1953 Nov p 74-79 [42] Lorentz transformation, Einstein, relativity, child's view of reality 1957 Mar p 46-5 adolescence, growth, menarche, earlier maturation of children in industrial countries 1968 Jan p 21-2 behavior, self esteem, personality 1968 Feb p 96-106 [511 personality, parental care, infant behavior, temperament, interaction of temperament and environment, nature nurture 1970 Aug p 102-109 [529] social discrimination, discrimination, group behavior, 'in vs out' group discrimination 1970 Nov p 96-102 [530]
silkworm, olfaction, taste, insect chemoreception, comparative physiology 1958 Apr p 97–106 chemical separation, chelation, metal ions, sequestering, ring compounds, porphyrin ring, organometallic compounds, metal-poisoning antidote 1953 June p 68–76 gas chromatography, sensitivity and application 1961 Oct p 58–67 [276] chemical topology, catenane, topological isomer, cyclic molecules, molecular structure, ring molecules, linking and knotting of ring molecules 1962 Nov p 94–102 [286] chemical weapons, bacteria, biological weapons, Vietnam war, arms race, CS gas, virus disease, nickettsiae, tear gas, herbicide, chemical-biological warfare 1970 May p 15–25 [1176] chemistry, chemical bond, molecular structure, crystal structure, protein structure, chemical kinetics, science, chemistry 1900-1950 1950 Sept p 32–35 plutonium, ultra-microchemistry, embryonic development, cytology, isolation of plutonium established a new research technology	agricultural technology, poultry production, food production, animal husbandry, eggs, U S chicken factories 1966 July p 56-106, calcium metabolism, eggshell, calcite, mobilization of calcium from bone 1970 Mar p 88-95 [117] chicken pox, herpes zoster immune globulin 1969 Aug p 5. child development, growth rate, Denver longitudinal study, changes in proportion 1953 Oct p 65-76 [106] mathematical concepts, how children form mathematical concepts 1953 Nov p 74-79 [426] Lorentz transformation, Einstein, relativity, child's view of reality 1957 Mar p 46-5 adolescence, grow th, menarche, earlier maturation of children in industrial countries 1968 Feb p 96-106 [511] personality, parental care, infant behavior, temperament, interaction of temperament and environment, nature nurture 1970 Aug p 102-109 [529] social discrimination, discrimination, group behavior, 'in vs out' group discrimination infant perceptions, object concept, perceptual 1971 Oct p 30-38 [539]
silkworm, olfaction, taste, insect chemoreception, comparative physiology chemical separation, chelation, metal ions, sequestering, ring compounds, porphyrin ring, organometallic compounds, metal-poisoning antidote gas chromatography, sensitivity and application [1961 Oct p 58–67 [276]] chemical topology, catenane, topological isomer, cyclic molecules, molecules, molecules, linking and knotting of ring molecules chemical weapons, bacteria, biological weapons, Vietnam war, arms race, CS gas, virus disease, rickettsiae, tear gas, herbicide, chemical-biological warfare chemistry, chemical bond, molecular structure, crystal structure, protein structure, chemical kinetics, science, chemistry 1900-1950 plutonium, ultra-microchemistry, embryonic development, cytology, isolation of plutonium established a new research technology 1954 Feb p 76–81 heat, regenerative furnace, nitrogen fixation, temperature limits, high	agricultural technology, poultry production, food production, animal husbandry, eggs, U S chicken factories 1966 July p 56-106-100, calcium metabolism, eggshell, calcite, mobilization of calcium from bone 1970 Mar p 88-95 [117] chicken pox, herpes zoster immune globulin 1969 Aug p 5. child development, growth rate, Denver longitudinal study, changes in proportion 1953 Oct p 65-76 [106] mathematical concepts, how children form mathematical concepts 1953 Nov p 74-79 [426] Lorentz transformation, Einstein, relativity, child's view of reality 1957 Mar p 46-5 adolescence, growth, menarche, earlier maturation of children in industrial countries 1968 Feb p 96-106 [511] personality, parental care, infant behavior, temperament, interaction of temperament and environment, nature nurture 1970 Aug p 102-109 [529] social discrimination, discrimination, group behavior, 'in vs out' group discrimination infant perceptions, object concept, perceptual development 1971 Oct p 30-38 [539] cognitive development, human behavior, infant perceptions,
silkworm, olfaction, taste, insect chemoreception, comparative physiology chemical separation, chelation, metal ions, sequestering, ring compounds, porphyrin ring, organometallic compounds, metal-poisoning antidote gas chromatography, sensitivity and application chemical topology, catenane, topological isomer, cyclic molecules, molecular structure, ring molecules, linking and knotting of ring molecules chemical weapons, bacteria, biological weapons, Vietnam war, arms race, CS gas, virus disease, rickettsiae, tear gas, herbicide, chemical-biological warfare chemistry, chemical bond, molecular structure, crystal structure, protein structure, chemical kinetics, science, chemistry 1900-1950 plutonium, ultra-microchemistry, embryonic development, cytology, isolation of plutonium established a new research technology 1954 Feb p 76-81 heat, regenerative furnace, nitrogen fixation, temperature limits, high	agricultural technology, poultry production, food production, animal husbandry, eggs, U S chicken factories 1966 July p 56-bone, calcium metabolism, eggshell, calcite, mobilization of calcium from bone 1970 Mar p 88-95 [117] chicken pox, herpes zoster immune globulin 1969 Aug p child development, growth rate, Denver longitudinal study, changes in proportion 1953 Oct p 65-76 [106] mathematical concepts, how children form mathematical concepts 1953 Nov p 74-79 [420] Lorentz transformation, Einstein, relativity, child's view of reality 1957 Mar p 46-5 adolescence, growth, menarche, earlier maturation of children in industrial countries 1968 Jan p 21-2 behavior, self esteem, personality 1968 Feb p 96-106 [511 personality, parental care, infant behavior, temperament, interaction of temperament and environment, nature nurture 1970 Aug p 102-109 [529] social discrimination, discrimination, group behavior, 'in vs out' group discrimination 1970 Nov p 96-102 [530] eye-hand coordination infant perceptions, object concept, perceptual development 1971 Oct p 30-38 [539] cognitive development, human behavior, infant perceptions, 1972 Mar p 74-82 [542]
silkworm, olfaction, taste, insect chemoreception, comparative physiology chemical separation, chelation, metal ions, sequestering, ring compounds, porphyrin ring, organometallic compounds, metal-poisoning antidote gas chromatography, sensitivity and application [1961 Oct p 58–67 [276]] chemical topology, catenane, topological isomer, cyclic molecules, molecules, molecules, linking and knotting of ring molecules chemical weapons, bacteria, biological weapons, Vietnam war, arms race, CS gas, virus disease, rickettsiae, tear gas, herbicide, chemical-biological warfare chemistry, chemical bond, molecular structure, crystal structure, protein structure, chemical kinetics, science, chemistry 1900-1950 plutonium, ultra-microchemistry, embryonic development, cytology, isolation of plutonium established a new research technology 1954 Feb p 76–81 heat, regenerative furnace, nitrogen fixation, temperature limits, high	agricultural technology, poultry production, food production, animal husbandry, eggs, U S chicken factories 1966 July p 56-106-100, calcium metabolism, eggshell, calcite, mobilization of calcium from bone 1970 Mar p 88-95 [117] chicken pox, herpes zoster immune globulin 1969 Aug p 5. child development, growth rate, Denver longitudinal study, changes in proportion 1953 Oct p 65-76 [106] mathematical concepts, how children form mathematical concepts 1953 Nov p 74-79 [426] Lorentz transformation, Einstein, relativity, child's view of reality 1957 Mar p 46-5 adolescence, growth, menarche, earlier maturation of children in industrial countries 1968 Feb p 96-106 [511] personality, parental care, infant behavior, temperament, interaction of temperament and environment, nature nurture 1970 Aug p 102-109 [529] social discrimination, discrimination, group behavior, 'in vs out' group discrimination infant perceptions, object concept, perceptual development 1971 Oct p 30-38 [539] cognitive development, human behavior, infant perceptions,

cardinal numbers, mathematics education, mathematics history,	chloromy cetin, anemia side-effect 1952 Sept p 72
number concepts, ordinal numbers 1973 Mar p 101–109	qualified approval 1952 Oct p 44 chlorophyll, photosynthesis, carbon dioxide, water, tracer experiments
adolescence, medical care, growth hormone, 'bone age', menarche, heredity vs environment 1973 Sept p 34-43	1948 Aug p 24-35
behavioral regression, cognitive development, human behavior, infant	leaf color, anthocyanins, carotene, primary synthesis of aromatic
perceptions, learning 1976 Nov p 38-47 [572]	compounds 1950 Oct p 40-43
communication, language, social speech 1977 Feb p 100–105 [576] 24-year longitudinal study 1952 Sept p 76	carotenoids, chloroplast, photosynthesis, biology of pigments 1956 Jan p 80-86
24-year longitudinal study Japanese children taller 1952 Sept p 76 1958 Aug p 52	tetrapyrrole ring, hemoglobin, cytochrome, respiration, enzymes,
study in Great Britain 1973 Oct p 50	tetrapyrrole virtuosity 1958 Aug p 77–81
child health care, infectious disease, national health insurance, medical	photosynthesis, carotene, retinene, vision, photobiology, phototropism, bioluminescence, sunlight, life and light 1959 Oct p 92–108
care, acute illness, chronic illness, delivery of medical care 1973 Apr p 13-17	ATP, photosynthesis, chloroplast, primary capture of light energy in
child psychiatry, autism, schizophrenia, psychoanalysis, emotional	photosynthesis 1960 Nov p 104–118
deprivation, 'mechanical boy' 1959 Mar p 116–127 [439]	photosynthesis, chloroplast, electron transfer, ATP, cytochrome,
behavioral psychology, autism, emotional illness, schizophrenia 1967 Mar p 78–86 [505]	pigments, role of chlorophyll in photosynthesis, 1965 July p 74–83 [1016]
child psychology, vision, eidetic images, perceptual memory,	fossil record, organic molecules, sedimentary rock, gas
'photographic' memory 1969 Apr p 36–44 [522]	chromatography, hydrocarbons, 'chemical fossils'
birth order effect 1957 May p 70 include or discipline 1958 May p 60	1967 Jan p 32-43 [308] vision, photosynthesis, photoperiodicity, visual pigments,
indulge or discipline 1958 May p 60 child welfare, social indicators, state of the child, New York City	phytochrome, retina cells, plant growth, light and living matter
1976 July p 65	1968 Sept p 174-186
children's humor, develops according to plan 1951 Nov p 34	chloroplast, photosynthesis, photochemistry, electron transport, mechanism of photosynthesis 1969 Dec p 58–70 [1163]
chilling test, common cold, virus disease, human subjects, Salisbury, England, study 1951 Feb p 39-45	chloroplast, electron transfer, photosynthesis, light absorption
chimera, chromosomal anomalies, genetic mosaic, gynandromorphism,	1974 Dec p 68-82 [1310]
organisms with tissue cells of different genes 1960 May p 118-130	in puffery vogue 1953 Feb p 39
chimney swift, life cycle, natural history 1954 July p 60–64 chimpanzee, primate biology, Yerkes Laboratories 1955 Feb p 67–75	chloroplast, cytoplasmic inhentance, reciprocal crossing, maternal inhentance, sex linked traits, non-Mendelian inheritance, male
primate behavior, social behavior, tool-using, comparative psychology,	sterility, paramecium, plastids, cytogene, review of evidence for an
observation of chimpanzees in the wild 1962 May p 128-138 [463]	extra-chromosomal genetics 1950 Nov p 30–39 [39] photosynthesis, grana, Hill reaction 1953 Nov p 80–84
symbolic language, learning, operant conditioning, binary numbers, animal behavior, chimpanzee learning arithmatic	photosynthesis, grana, Hill reaction 1953 Nov p 80–84 carotenoids, photosynthesis, chlorophyll, biology of pigments
1964 May p 98–106 [484]	1956 Jan p 80–86
food sharing, hunting, carnivorous chimpanizees, omnivorous	ATP, photosynthesis, chlorophyll, primary capture of light energy in
chimpanzees, feeding behavior, Gombe National Park, Tanzania 1973 Jan p 32–42 [382]	photosynthesis 1960 Nov p 104–118 ATP, mitochondrion, photosynthesis, cell metabolism, glucogenesis,
chimpanzee infant in human family 1951 July p 32	citric acid cycle, glycolysis, oxidative phosphorylation, cytology,
toolmaking 1964 July p 48	cellular transformation of energy 1961 Sept p 62-73 [91]
chimpanzee learning, ape language, animal communication, Sara learns grammar to 'read' 1972 Oct p 92-99 [549]	algae, photosynthesis, oxidative phosphorylation, Calvin cycle, path of carbon in photosynthesis 1962 June p 88-100 [122]
V ₁ k ₁ 's progress 1954 Feb p 48	cytoplasmic inheritance, maternal inheritance, extranuclear DNA.
sign-language training 1969 Jan p 50	mitochondria, Chlamydomonas 1965 Jan p 70-79 [1002]
Sarah learning language 1971 July p 44 China, economic development, rice, hybrid wheat, agricultural	chlorophyll, photosynthesis, electron transfer, ATP, cytochrome, pigments, role of chlorophyll in photosynthesis,
technology, hybrid rice, irrigation, livestock 1975 June p 13-21	1965 July p 74-83 [1016]
chinampa, canals, drainage, Mexican agriculture, agricultural system,	photosynthesis, photochemistry, electron transport, chlorophyll,
Aztec civilization, highly productive farm plots, Aztec empire 1964 July p 90-98 [648]	mechanism of photosynthesis 1969 Dec p 58-70 [1163] oxygen cycle, photosynthesis, biosphere, aerobic metabolism, ozone,
Chinese dialects, Chinese language, Chinese writing, tones, computer	oxidation-reduction reactions, geological record, oxygen-carbon
translation, Mandarin Chinese 1973 Feb p 50-60 Chinese industry, technology, economic development, progress of	balance 1970 Sept p 110-123 [1192]
People's Republic of China in computer electronics, instrumentation	mutochondria, symbiosis, cell organelle, DNA, prokar) ote origin, protein synthesis, plastids, cell evolution, extra-nuclear genetic
and control technologies 1972 Dec p 13-17	activity in cell 1970 Nov p. 22–29 [12031
Chinese language, computer translation, pattern recognition, experiment in machine translation 1963 June p 124-135	cell evolution, cell organelle, endosymbiosis, eukaryotic cells.
Chinese writing, tones computer translation, Mandarin Chinese,	mitochondria, symbiosis, prokaryotic cells, algae, cilia, flagella, plastids 1971 Aug p 48-57 [1230]
Chinese dialects 1973 Feb p 50–60	chlorophyll, electron transfer, photosynthesis, light absorption
Chinese remainder theory, computability theory, Diophantine equations, Hilbert program, mathematics 1973 Nov p 84-91	1974 Dec p 68-82 [1310]
Chinese starcharts, supernovae, Tycho's supernova, Kepler's supernova,	ATP, oxidative phosphorylation, cell membrane, active transport, mitochondrion, formation of the energy-exchange molecule in the
'guest stars', the seven observed supernovae 1976 June p 100-107 Chinese writing, Chinese language, tones, computer translation,	cell 1978 Mar n 104_123 [1392]
Mandarin Chinese, Chinese dialects 1973 Feb p 50-60	semiconducting solar battery 1957 Apr p 72
Chingis Khan, cavalry, Mongol conquests, war, frontier history, nomatic	plastid DNA 1962 Mar p 74 chlorpromazine, psychoactive drugs, tranquilizers, reserpine, Frenquel
civilization, Chingis Khan, biography 1963 Aug p 54-68 Chladni patterns, bass cello, viola, violin music, musical instruments,	1955 Oct p 80-86
physics of violins 1962 Nov. p. 78_93	cholera, disease, plague, yellow fever, epidemiology 1953 Feb p 22-27 bacterial toxin disease, medical care, sanitation, water supply.
Chiamy domonas, cytoplasmic inheritance, maternal inheritance,	epidemiology 1071 Aug = 16 31
extranuclear DNA mitochondria, chloroplast 1965 Jan p 70-79 [1002]	endesterie, liquid crystals, soap bubbles, smeetic, nematic
chloramphenicol, antibiotics, penicillin, streptomycin, aureomycin,	cholesterol, steroid hormones vitamin D, sex hormones cortisone
infectious disease, the antibiotic revolution 1952 Apr p 49-57 chlorella, algae, food production 1953 Oct p 31-35	1055 1 62 (0.50)
chlorocruorin, hemoglobin hemocyanin blood pigments	atticio cicio di caldio ascular disease human nutrition neterna
1950 Mar p 20–22	epidemiology, coronary occlusion, diet, lipids plaque, arteri wall
	1966 Aug p 48–56

diet and heart disease hypothesis 1956 Feb p 5	6 DNA DNA
the hypothesis the hypothesis 1956 Apr. p. 6	, Brother protein synthesis, polymers, molecular
the hypothesis 1961 Feb p 7	
the hypothesis 1969 Sept p 9	
the hypothesis questioned 1977 Dec. 20	c
chondrites, extraterrestrial life, meteorites, pangenesis, organic molecules	
organic molecules in carbonaceous chondrites 1963 Mar. p. 43-49	n de la
chondrule, primordial dust cloud, solar system, shock waves, genesis of	1701 3001 1) 14-02 19.
the solar system 1963 Oct p 64-8;	mitotic apparatus, cytology, meiosis, mitosis, mechanism of cell
element formation, planets, solar system chemistry, space exploration,	
stellar evolution 1974 Mar p 50-65	DNA, gene mapping, bacteriophage, mapping genes by induced and
carbonaceous chondrites, meteorites, solar system, primordial dust	
cloud 1975 Feb p 30-38	Barr body, sex differences, genetic mosaic, cytology, Klinefelter's
12/2 100 1 30-30	2
hypersthene meteorites' origin 1964 July p 46 chondrule, oldest solar system rock 1963 Mar p 72-74	
chondrites, primordial dust cloud, solar system, shock waves, genesis of	
the solar system 1963 Oct p 64-82	***************************************
chordates, salpa, marine biology, natural history 1961 Jan p 150–160	
chorinated hydrocarbons, calcium metabolism, eggshell thinning.	
pollution, DDT, dieldrin, avian reproduction, insecticide, food	histone in genetic expression 1962 Sept p 106
chain, ecological effect of pesticides 1970 Apr p 72–78 [1174]	chromosome breakage, radiation damage, ionizing radiation, mutation,
Christianity, cargo cult, religion, cultural anthropology, Melanesian cargo	, , , , , , , , , , , , , , , , , , , ,
cult 1959 May p 117–125	autolysis, lysosomes, enzymes, phagocytosis, lysis, lysosome
Christmas cards, sociology of exchange 1971 Mar p 48	
chromatic saturation, color perception, surface colors, hue	
1975 Aug p 62-75 [565]	'cataclysmic evolution' 1951 Apr p 54-59 wheat, einkorn, wild einkorn, emmer, hybrid cells, fungi, plant
chromatid, chromosome replication, DNA replication, double helix,	breeding, origin and perfection of wheat 1953 July p 50-59
micromechanics of reproduction 1958 June p 36-42 [60]	chromosome mapping, Mendel's laws, mutation, science history, the gene
chromatin, leukocyte, nucleus, DNA, Miescher, spermatozoon nucleus,	on the eve of the resolution of the genetic code
hereditary material, discovery of DNA 1968 June p 78-88 [1109]	1956 Oct p 78–90 [17]
cell nucleus, chromosomal proteins, DNA, gene regulation, histones,	cancer, SV40 virus, gene transformation, tissue culture, somatic cells,
nucleoproteins, oxidative phosphorylation	hybrid cells, genetics of human cancer 1978 Feb p 117-125 [1381]
1975 Feb p 46-57 [1315]	chromosome puffs, DNA, insect chromosome, RNA synthesis, hormonal
DNA packaging 1977 Nov p 72	induction, gene regulation 1964 Apr p 50-58 [180]
chromatography, fractionation, paper chromatography, amino-acid	chromosome replication, DNA replication, chromatid, double helix,
separation 1951 Mar p 35-41	micromechanics of reproduction 1958 June p 36-42 [60]
process control, automatic control, control systems, predictive control	mitosis, mitotic spindle, cell reproduction cell membrane, cell life cycle
1969 June p 112–120	1974 Jan p 54-64 [1288]
gas chromatography 1953 Sept p 82	chromosome structure, chemical dissection 1954 Sept p 80
cellulose column 1958 Aug p 50	chromosphere, Sun, solar eclipse, ionosphere, solar flares, ultraviolet
cellulose chromatography 1958 Aug p 50	radiation, Earth-Sun chromosphere-ionosphere interaction
chromatophores, hyla, chameleon, catfish, skin color, how animals change	1962 Feb p 50-59
color 1952 Mar p 64-67	magnetic field, solar magnetism, Sun cycle, photosphere, solar atmosphere, 11-year solar cycle explained 1966 Nov p 54-62
chromosomal anomalies, gene mutation, lethal heredity	
1952 July p 58–61	corona, eclipse phenomena, photosphere, solar corona, Sun 1973 Oct p 68-79
genetic mosaic, gynandromorphism, chimera, organisms with tissue cells of different genes 1960 May p 118–130	chronic illness, infectious disease, national health insurance, medical care
cells of different genes 1960 May p 118-130 Down's syndrome, Klinefelter's syndrome, trisomy 21, genetic defect,	child health care, acute illness, delivery of medical care
meiosis, mitosis, gene translocation, nondisjunction, afflictions	1973 Apr p 13-17
associated with abnormal chromosome complement	morbidity, mortality rates, medical care, vital statistics, life expectancy
1961 Nov p 66–76 [150]	infectious disease, degenerative diseases, causes of death
Parr body sex differences, chromosome, genetic mosaic, cytology,	1973 Sept p 76-84
Klinefelter's syndrome, Turner's syndrome, sex differences in tissue	chronic myloid leukemia, No 21 or 22 chromosome implicated
cells 1963 July p 34-62 [161]	1961 Mar p 88
pattern recognition, computer analysis, computer graphics, computer	Chubb crater, fossil crater, meteoritic impact, cratering astroblemes
reasonation and classification of chromosomes	1951 May p 64-69 11701 meteorite fragments 1951 Oct p 34
1966 Apr p 40-46 [1040]	iron meteorite fragments 1951 Oct p 34 chymotrypsin, catalytic proteins, enzyme action, protein-cutting enzymes
embryonic development, oocytogenesis, meiosis, mitosis, mammahan	proteolytic enzymes, serum proteins, elastase, trypsin
eggs ovum, in vitro fertilization 1900 Aug p 72-01 [1047]	1974 July p 74-88 [1301]
	cichlid fish, marine iguana, rattlesnake, fighting behavior animal
chromosome, gene mapping, genetic disease, autosomes 1971 Apr p 104-113 [1220]	behavior, comparative psychology, oryx 1961 Dec p 112–122 [470]
deficiency genetic disease, prenatal genetic	cigarette smoking, carcinogenesis tobacco, human physiology, lung
	cancer, coronary disease, effects of smoking 1962 July p 39-51
1711 1:01 P = : 1 1	implicated in lung cancer 1950 July p 29
1964 June p 59	implicated in deaths 1954 Aug p 37
	cancer no inhibition 1955 May p 58 public smoking bans 1956 Sept p 118
	1004 5.1 . 66
histones, nucleoproteins, oxidative phosphorylation	cancer 1964 Feb p 60 coronary disease 1965 Dec p 40
	mortality rates 1966 Apr p 48
chromosome, mutation, evolutionary diversity, science, genetics 1900-	emphysema in dogs 1966 Aug p 42
1950, one gene-one enzyme	coronary disease 1967 Oct p 48
haradity DNA RNA, nucleoproteins, protein syntax Feb. 27, 57 1781	decline in U S 1968 Apr p 44
	first decline in consumption 1969 May p 52 decline in US 1969 May p 52
mitotic spindle, sea urching egg, digitonin, centroles 1953 Aug p 53-63	1970 Cant n 97
	women 1970 Sept p 82

life expectancy	1970 Oct p 53	air pollution, climate, heat emission, heat pollution, microclimate, infrared photography, heat island, climate of cities
cardiac disease and CO cilia, flagella, cytology, structure and function	1974 Mar p 46	1967 Aug p 15–23 [1215]
actinomyosin, cyclosis, muscle contraction,	flagella, cytology,	urban transport, computer modeling, personal-transit systems, systems
cytoplasmic streaming, actin, myosin, und	ierlying unity of cellular	analysis, mass transit 1969 July p 19–27
motion	1961 Sept p 184-204 [97]	American Negroes 1970 Apr p 46
ATP, axoneme, cell motility, flagella, microt		citric-acid cycle, enzymes, co-enzymes 1949 Sept p 48–50 [15]
paramecium, sperm	1974 Oct p 44–52 [1304]	biochemistry, enzymes, virus, metabolism, co-enzymes, sulfa drugs, antibiotics, science, biochemistry 1900-1950 1950 Sept p 62-68
cipher, cryptology, code, polyalphabetic syster and technology of making and breaking c		ATP, muscle contraction, fermentation, energy transformation
and technology of making and oreasang o	1966 July p 38-46	1953 Apr p 85–92
circadian rhythm, biological clock, fiddler crab	1954 Apr p 34–37	ATP, mitochondrion, cell metabolism, mitochondrion as site of
filariasis, parasitism, elephantiasis, tropical	disease	biological oxidation 1958 July p 56–62
	1958 July p 94–101	acetylcholine, acetylcholinesterase, nerve gases, nerve poisons, alkaloids, toxins, lethal mechanisms at cellular level
Annelida, feather duster worm, lugworm, br	1959 June p 132–142	1959 Nov p 76–84
basal metabolism, hibernation, homeothern		cytology, energy transformation, ATP, mitochondrion, glycolysis,
circannual rhythm, hypothalamus, squirr		oxidative phosphorylation, membrane, energy transformation in the
	1968 Mar p 110-118 [513]	cell 1960 May p 102–114
animal behavior, biological clock, circannua		ATP, chloroplast, mitochondrion, photosynthesis, cell metabolism,
animal migration, manic depression biological clock, house sparrow, photoperio	1971 Apr p 72–79 [1219]	glucogenesis, glycolysis, oxidative phosphorylation, cytology, cellular transformation of energy 1961 Sept p 62–73 [91]
nonvisual light receptors	1972 Mar p 22–29 [1243]	city as quarry, Classical archeology, Minturna, slow death of a city
biological clock, diapause, dormancy, insec		1954 July p 66–70
metabolism, photoperiodicity	1976 Feb p 114-121 [1335]	city trees, pollution effects, tree cloning, ailanthus, ginkgo, London plane,
daily fluctuation as effect of X-radiation	1963 Mar p 78	Norway maple 1976 Nov p 110–118 Ciudad Guyana, urban planning, cities, land ownership, economic
circannual rhythm, basal metabolism, hiberna circadian rhythm, feeding behavior, hypo	othalamus squirrels	geography, highway engineering, a model city in Venezuela
dormice in hibernation	1968 Mar p 110–118 [513]	1965 Sept p 122–132
anımal behavior, biological clock, cırcadiar		civil defense, fallout shelters, arms race, social psychology, counterforce
animal migration, manic depression	1971 Apr p 72–79 [1219]	strategy, social impact of fallout shelters 1962 May p 46-51 [637]
circle-grid analysis, crystal structure, metal structure	amping, sheet-metal	arms race, fallout, limited nuclear warfare, technology assessment, flexible-response strategy, limited nuclear war 1976 Nov p 27-37
production, strain hardening, metal structircuit breakers, electric power, high-voltage	current, plasma arcs	Congressional hearings 1950 Jan p 26
	1971 Jan p 76-84	Congressional hearings 1950 May p 26
circular error probability, see CEP	_	counterforce strategy, civil defense revived 1976 Oct p 57
circulation of the atmosphere, see atmospher		civil rights, racial discrimination, Amerindian, genocide, cultural
circulation of the oceans, see ocean circulation circulatory disorders, medical diagnosis, there		assimilation, persisting identity of Amerindians 1960 Feb p 37-45 class discrimination, Harijans, untouchables, caste, Hinduism, India
skin temperature	1967 Feb p 94–102	1965 Dec p 13–17
circulatory system, thermoregulation, cold ad		communication, freedom of expression, US First Amendment
insulation	1966 Jan p 94–101 [1032]	1972 Sept p 163–172 [680]
circumcision, questioned cities, urban density, form of cities	1970 Nov p 45 1954 Apr p 54-63	for mentally ill 1950 Nov p 26 civil rights movement, crime incidence reduced 1965 May p 48
racial discrimination, social geography, Ar		civilian morale, atomic bomb, strategic bombing, 'bomb not absolute
metropolitan segregation	1957 Oct p 33-41	weapon' says P M S Blackett 1949 Mar D 19
social evolution, social behavior, human ev		civilization, genetic adaptation, human evolution, natural selection,
1500 B C origin of cities Industrial Revolution, urbanization, popul	1960 Sept p 153–168 [606]	culture, human evolution in man-made environment
to a single-topic issue on cities	1965 Sept p 40-53 [659]	clams, bivalves, marine life, mollusks, symbiosis 1975 Apr p 96–105
urbanization, Industrial Revolution, agric	ultural revolution,	ciap-lling mechanism, aerodynamics, animal behavior, bird flight, insect
communication, origin and evolution of housing, urban planning central city, sub-		flight, flip mechanism, hovering flight, lift generation
conurbation, evolution of the metropoli		1975 Nov p 80-87 [1331] clarinet, musical instruments, vibrating air column, oboe, flute, bassoon,
shantytowns, Calcutta, urbanization, caste	e, housing, poverty, traffic,	English horn, saxophone, physics of the wood winds
Calcutta, a city of the poor	1965 Sept p 90-102	1960 Oct p 144_154
land use, urban planning, Stockholm, land Stockholm as a planned city	ownership, urban renewal, 1965 Sept p 106-115	class discrimination, Harijans, untouchables, caste, Hinduism, India, civil
urban planning, Ciudad Guyana, land ow		rights 1965 Dec p 13–17 class distinctions, in funerals 1950 Nov. p. 28
geography, highway engineering, a mod	•	Classical archeology, Agora, Athens 1950 Nov p 28 Classical archeology, Agora, Athens 1950 Aug p 46–51
local goverment New York, metropolitan	1965 Sept p 122–132	Minturna, city as quarry, slow death of a city 1954 July p. 66-70
Northeast Corridor, regional planning		commerce, underwater archeology, Roman empire, amphora
housing land use, population density, sha		Mycenaean civilization, burial treasure, Agamemnon, dig started by
government regulation urban planning		Schliemann continues 1954 Dec. p. 73, 79
railway, traffic patterns, commutation, m	1965 Sept p 150–160	Greek civilization, Mycenaean civilization, Linear R script, Palos, King
transportation Bay Area Rapid Transi	t system as model for urban	1Nestor's parace, 1200 B C 1058 May m 110 121
transportation	1965 Sept. p. 162-174	Antikythera planetary motion Greek computer, ancient instruments, science history, computer technology, 2,000-year-old computer
air pollution, water supply, sewage dispostantion, Los Angeles New York, meta	al, smog, water pollution,	1050 1 (0.42
	1965 Sept p. 178, 100	protection castle, nuraghi, building construction, 1000 BC
urban renewal, slums housing, relocation	eminent domain urban	proto-castics in partiting
planning US experience with Federal	l subsidy of urban renewal	Bronze Age, burial site, Greek colony, Bahrain, Sumerian-Indian culture link
urban planning, central city, highway eng	1965 Sept p 194-204	Athens, Xerxes, Themistocles, Salamis, Battle of Salamis, 400 p. 62–71
space diversity, 'paths'	1965 Sept p 209-219	Etruscans of communication 1961 Mar p 111–120
	1 - 5>>	Etruscans overview of Etruscan civilization 1961 Mar. p. 111–120

Brauron, Greek civilization, 500 B C temple 1963 June p 110-120) atmacellus and
Greek civilization, Cumae, Italy, 8th c B C Greek colony first in Italy	Process Chemical Controls effect
1963 Dec. n. 10812:	glaciation since Ice Age, mountain glaciers, sea-ice fluctuations, glacier
tunnel of Eupalinus, Samos, Greek civilization, water supply, feat of Classical engineering 1964 June p. 104-11	100 June n 100_110
Carthage, Roman colony, archeological 'rescue' campaign	wind, solar radiation, energy cycle, biosphere, albedo, atmosphere
1978 Jan p. 110-120 1704	circulation, ocean circulation, terrestrial radiation, carbon dioxide
burial mounds at Marathon 1970 July n 52	'window', Earth energy cycle 1970 Sept p 54-63 [1189] air pollution, atmospheric circulation, carbon dioxide 'window',
tall of Alinoa a collapse 1976 Apr. p. 56	particulates, ozone, temperature of Farth, human actuaty and
Bronze Age bull-leaping 1976 Aug p 44D	' climatic change 1971 Jan p. 32-42 [894]
Classical physics, Aristotle, appraisal of a physicist of more ancient fame than Newton 1950 May p. 48-51	dendrochronology, radiocarbon dating 1972 May p 92-100 [1250]
than Newton 1950 May p 48-51 field theory, high-energy physics, quantum fields, elementary particles,	C Desiration of Dioles (Ool)
with 20 particles known, a review of the theoretical foundations of	1976 Feb p 88-99 cultural evolution, hunter-gatherer societies, Nile prehistory,
physics 1953 Apr p 57-64 [208]	Paleolithic settlements, stone tools 1976 Aug. p. 30-38
classified research, stops at M.I T 1969 June p 54	carbon 14 abundance, ice ages, Maunder minimum, solar physics,
resumes at M I T. 1969 July p 50 halted at Columbia and Stanford 1970 Mar p 58	sunspots, dendrochronology 1977 May p 80-92 [925]
halted at Columbia and Stanford 1970 Mar p 58 Project Camelot 1971 May p 45	
'counter-insurgency research' in Thailand 1972 Jan p 47	humus, 'greenhouse effect', threat of 'greenhouse effect' 1978 Jan p 34-43 [1376]
mulitary secrecy, controversy engages trustees, faculty, students	building construction, Cape Cod cottages in California
1973 Jan p 44	1949 Nov p 29
military secrecy, laser-induced fusion 1973 Feb p 46	climatic change, arroyo, flash floods 1952 Dec p 70-76
chathrates, inclusion compounds, crystallography, gas hydrates, inclusion compounds in biology and technology 1962 July p 82-92 [280]	oxygen isotopes, temperature measurement, foraminifera, abyssal
clay, quick clay, landshde, formation and properties of quick clay	sediments, paleontology, glaciation, measurement of ancient temperatures 1958 Feb p 54-63
1963 Nov p 132-142	glaciation, solar radiation, solar evolution and terrestrial climate
clay figurines, Macedonia, Nea Nikomedeia, Neolithic village, domestic	1958 June p 85-92 [835]
animals, agricultural society, oldest Neolithic site in Europe	algae, coral, coral rings, fossil reefs, paleontology, dating by coral rings
1965 Apr p 82-92 Clean Air Act, air pollution, emission standards, Environmental	1966 Oct p 26-33 [871]
Protection Agency 1973 June p 14-21	water erosion, rivers, drainage patterns, river evolution 1967 Apr. p. 84-94
cleaning behavior, ecological niche, symbiosis, reef ecology, animal	coral reefs, energy cycle, fossil reefs, marine ecosystems, reef evolution
behavior, behavioral integration of reef ecology	1972 June p 54-65 [901]
1961 Aug p 42–49 [135]	climatology, Antarctica, solar radiation, atmospheric circulation, albedo, Antarctica in Earth's heat budget 1962 Sept p 84-94 [859]
cleft palate, congenital anomalies, fetal injury, embryonic development, teratogenesis, rubella, teratology 1957 Oct p 109-116	climax ecosystem, forestry, spruce, balsam, birch, climax forest of
'client-centered' therapy, psychotherapy 1952 Nov p 66-74 [448]	Northeast US 1948 Nov p 20-23
Clifford, mathematics, science history, life and work of William Kingdon	solar radiation, photosynthesis, biosphere, agricultural ecosystem,
Clifford 1953 Feb p 78–84	energy cycle, ecosystem, food chain, respiration, biosphere energy cycle 1970 Sept p 64-74 [1190]
climate, cloud seeding, weather control, does control of weather constitute a climatic hazard? 1950 Apr p 48-52	clock paradox, artificial satellite, relativity theory, Mercury, stellar shift,
volcanoes, dust, solar radiation, world climate and volcanic activity	electromagnetic frequency shift, perihelion shift, general relativity,
1952 Apr p 74-80 [843]	testing Einstein's general theory of relativity 1959 May p 149-160 Pythagorean theorem time, special relativity 1963 Feb p 134-144
Mars, polar cap, desert, atmosphere, 'canals', picture from Earth- bound study 1953 May p 65-73	Pythagorean theorem time, special relativity 1963 Feb p 134-144 long-lived mesons 1957 Mar p 63
bound study 1953 May p 65-73 trade wind clouds, atmospheric circulation, cumulus clouds, ocean-	special relativity demonstrated with help of Mossbauer effect
atmosphere interface 1953 Nov p 31–35	1960 Dec p /0
Farth placiation, Antarctic glacier, sea level, hydrologic cycle	clone, cancer, tissue culture, drug research, somatic cells, technique and uses of tissue culture 1956 Oct p 50-55
1955 Sept p 84-92 [809] weather, solar wind, ionosphere, meteorology, coronametry, Earth's	HeLa cancer cells, cell culture, somatic cells, tissue culture, single
weather and solar wind 1957 Apr p 138~148 [849]	human cells 1957 Aug n 91-100 [33]
plant growth, greenhouse, agronomy, photoperiodicity, day-night	cell diffe
temperature, 'phytotron', environment simulator 1957 June p 82-94	embr ovum, cytology, how cells specialize 1961 Sept p 124-140
ocean circulation, abyss, currents in the abyss 1958 July p 85–90	tissue culture, meiosis, mitosis, plant cell differentiation, generation of
marchland events ecology, entrophication, wetlands, natural history	whole organism from tissue cell (carrot) 1963 Oct p 104-113
of march effect on climate 1938 UCL D 114-122 [040]	muscle tissue, embryonic cells, cell differentiation, cell culture, origin of muscle in embryonic development 1964 Aug p 61-66
carbon dioxide 'window', meteorology, air pollution, fossil fuel, threat	cell differentiation, nucleus transplantation, genetic engineering
of greenhouse creek	somatic cell nucleus, gene complement, frog embryo gene regulation
matagralagy salar narricle minucipe on Larm annospirate	1968 Dec p 24–35 [1128] Protato plants from tissue cell 1978 June p 83
	potato plants from tissue cell 1978 June p 83 closed cycle, cryogenic technology, Stirling cycle, refrigeration hot-air
anthropology, human evolution, steatopygia, human migration, race, population, genetic variation, ancient migration and human diversity	engine displacer 1965 Apr p 119-12/
	'closed' universe, cosmology, 'big bang' theory, 'open' universe universe expansion, deuterium abundance, age of elements, average density
building construction, architecture, primitive architecture, igloo,	1976 Mar p 62–79
teepee, yurt, tent, sod hut, adobe house, hogan, stilt house	clothing, insulation, objective, physical standards for 'warm'
grape fermentation, wine, yeast, viticulture, enzymes, chemical	1951 Mar p 56-60 behavioral adaptation homeothermy, clothing and body-temperature
avalanation of a good wife, fold of chimes	1956 Feb p 109-116
	cloud, meteorology, wind, lee waves, soaring glider, esthetic exploitation
Peru Current, Inca civilization, New World archeology, 1965 Oct p 68-76	of lee waves 1961 Mar p 124-134 upper atmosphere, mesopause meteoritic dust, condensation nuclei.
influences on early Peruvian Curtaines	rocket-borne collectors sample noctificent clouds
infrared photography, heat island, climate of cities 1967 Aug. p 15-23 [1215]	1963 June p 50-59
1301 VINE B 12 1 1	

cloud chamber, bubble chamber, liquid hydrogen, superheated fluid	
1055 Feb n 46_5017161	coal technology, technology history, Industrial Revolution iron smelting, blast furnace, Newcomen engine 1974 Aug p 92–97
spark chamber, particle accelerator, bubble chamber, particle tracks	fossil fuel, technology history, Industrial Revolution, 16th c energy
1962 Aug p 36–43	crisis, wood-fuel shortage 1977 Nov p 140–151 [391]
cloud chamber design, build your own! 1951 Jan p 29	technology assessment, coal-slurry pipelines 1978 Mar p 70
cloud physics, meteorology, condensation nuclei, ocean foam, salt	Coanda effect, fluid dynamics, amplifiers, switching, logic gates
particles, rain, seasalt and rain 1957 Oct p 42–47	1964 Dec p 80–88
snow crystals, hexagonal habit, bullet clusters, tsuzumi crystals,	aerospace technology, fluid dynamics, aerodynamics, propulsion,
variations on a theme 1973 Jan p 100–107	nozzles, burners, nature and applications of Coanda effect 1966 June p 84-92
cloud seeding, climate, weather control, does control of weather	coated optics, optical interference coatings, light reflection, light
constitute a climatic hazard? 1950 Apr p 48-52 weather control, silver iodide, Project Cirrus, condensation nuclei, dry	transmission, dielectric mirrors, laser, interferometry
1052 1 17 21	1970 Dec p 58–75
water cycle, air pollution, water drop, ice crystals, fog, inversion layer.	coaxial cable, carrier-wave modulation, communication technology,
smog 1968 Dec p 74–82 [876]	electromagnetic spectrum, fiber optics, radiowave, communication
to trigger air mass movement 1950 Sept p 48	channels, bandwidth, noise 1972 Sept p 98-113
need for planning 1954 Feb p 46	cobalt, magnetism, magnetic domains, iron, ferrites 1955 Jan p 68–73
effective rainmaking 1957 July p 64	trace elements, desert ecology, land reclamation, vitamin B12 synthesis,
cloud structures, radar, weather observation 1953 July p 34–38	agncultural technology, reclamation of infertile Austrialian land 1959 Jan p 97-106
Clouds of Magellan, galactic center, nebulae, globular cluster stars,	cobalt-rare earth alloys, magnetism, permanent magnets, magnetic
Southern sky, Eta Carina, astronomical riches of the southern sky 1952 July p 46-57	domains, anisotropy, Alnico 1970 Dec p 92–100
universe expansion, Cepheid variable, Andromeda Galaxy, galactic	cocaine, anesthesia, pain, procaine, surgery, medical research,
yardstick, doubling of yardstick doubles size and age of the universe	neuropharmacology, pharmacology, psychiatry, research in pain
1953 June p 56–66	suppression 1957 Jan p 70–82
spiral galaxies, radio astronomy, galactic structure, resolution of	alkaloids, plant physiology, morphine, strychnine, 'hemlock',
structure of nearest galaxies 1956 Apr p 52-58	physostigmine, caffeine, contine, quinine, ricinine, LSD, human
galaxy, stellar evolution, ultraviolet radiation 1964 Jan p 32-41	toxins in plant physiology 1959 July p 113–121 [1087]
radio source outside Earth's galaxy 1963 Oct p 59	drug addiction, addiction fashionable 1977 Nov p 75
supernova remnants 1976 June p 49	coccidioidomy cosis, histoplasmosis, fungal infection, respiratory infection, airborne infection, epidemiology 1948 June p 12–15
'cloudy crystal ball', atomic nucleus, nuclear structure, neutron cross sections, 'model atom' 1955 Dec p 84-91	Cochise culture, New World archeology, Folsom man, stone tools
sections, 'model atom' Clovis culture, hunting, mammoth-bone deposits, Folsom points, New	1951 Feb p 15–19
World archeology, elephant extinction 1966 June p 104–112	New World archeology, Pine Lawn Valley, Mogollon culture, 2500
mammoth-bone shaft wrench 1968 Mar p 54	B C to 1300 A D in New Mexico 1951 July p 46-51
cluster, see galactic clusters, globular cluster stars	cochlea, deafness, ear, directional orientation, hearing
cluster-seeking algorithms, pattern recognition, computer technology,	1957 Aug p 66–78 [44]
reading machines 1971 Apr p 56–71	attention mechanism, speech perception, hearing, phonetics,
co-enzymes, enzymes, citric-acid cycle 1949 Sept p 48–50 [15] biochemistry, enzymes, virus, citric-acid cycle, metabolism, sulfa drugs,	neuropsychology, hearing two messages at a time 1962 Apr p 143–151 [467]
antibiotics, science, biochemistry 1900-1950 1950 Sept p 62–68	cockroach, woodroach, endocrinology, cockroach as laboratory animal
CO ₂ acceptor process, coal gasification, energy resources, gasification	1951 Dec p 58-63
processes, Lurgi process, Hygas process, synthane process, coal	regeneration, cell differentiation embryo-graft experiments, embryonic
technology 1974 Mar p 19–25	development, newt, biological form 1977 July p 66-81 [1363]
coal, fossil, flora, Mississippian period, Pennsylvanian period,	cocoon, insect metamorphosis, silkworm, neurophysiology, insect
Carboniferous period, tropical flora, deposition of coal	hohomor coccon record of cell warm and make and
	behavior, cocoon record of silkworm spinning movements
1948 July p 46–51	1956 Apr p 131–140
	1956 Apr p 131–140 code, cryptology, polyalphabetic systems, rotor machine, cipher, history
fossil fuel, underground gasification of coal 1950 June p 52-55 chemical raw material, fossil fuel, coking, 'water gas' process, hydrogenation 1955 July p 58-67	1956 Apr p 131-140 code, cryptology, polyalphabetic systems, rotor machine, cipher, history and technology of making and breaking ciphers and codes 1966 July p 38-46
fossil fuel, underground gasification of coal 1950 June p 52–55 chemical raw material, fossil fuel, coking, 'water gas' process, hydrogenation 1955 July p 58–67 energy resources, natural gas, oil reserves, energy economics, fossil fuel,	1956 Apr p 131-140 code, cryptology, polyalphabetic systems, rotor machine, cipher, history and technology of making and breaking ciphers and codes
fossil fuel, underground gasification of coal 1950 June p 52–55 chemical raw material, fossil fuel, coking, 'water gas' process, hydrogenation 1955 July p 58–67 energy resources, natural gas, oil reserves, energy economics, fossil fuel, impending petroleum shortage 1956 Oct p 43–49	1956 Apr p 131–140 code, cryptology, polyalphabetic systems, rotor machine, cipher, history and technology of making and breaking ciphers and codes 1966 July p 38–46 code security, computer privacy, cryptography, data-bank confidentiality 1973 May p 15–23
lossil fuel, underground gasification of coal losso June p 52–55 chemical raw material, fossil fuel, coking, water gas' process, hydrogenation losso los los	code, cryptology, polyalphabetic systems, rotor machine, cipher, history and technology of making and breaking ciphers and codes 1966 July p 38–46 code security, computer privacy, cryptography, data-bank confidentiality 1973 May p 15–23 codeine, analgesics, morphine, opium, poppy, heroin, Bentley's
lossil fuel, underground gasification of coal lossol fuel, underground gasification of coal lossol fuel possible possibl	code, cryptology, polyalphabetic systems, rotor machine, cipher, history and technology of making and breaking ciphers and codes 1966 July p 38–46 code security, computer privacy, cryptography, data-bank confidentiality 1973 May p 15–23 codeine, analgesics, morphine, opium, poppy, heroin, Bentley's compound, drug action, search for strong, safe analgesic
fossil fuel, underground gasification of coal 1950 June p 52–55 chemical raw material, fossil fuel, coking, 'water gas' process, hydrogenation 1955 July p 58–67 energy resources, natural gas, oil reserves, energy economics, fossil fuel, impending petroleum shortage 1956 Oct p 43–49 Antarctica, fossil fauna, fossil flora, geology, paleontology, Glossopteris, continental drift evidence 1962 Sept p 168–184 [863] fossil fuel, underground gasification of coal 1948 Aug p 23	code, cryptology, polyalphabetic systems, rotor machine, cipher, history and technology of making and breaking ciphers and codes 1966 July p 38-46 code security, computer privacy, cryptography, data-bank confidentiality 1973 May p 15-23 codeine, analgesics, morphine, opium, poppy, heroin, Bentley's compound, drug action, search for strong, safe analgesic 1966 Nov p 131-136 [304]
fossil fuel, underground gasification of coal 1950 June p 52–55 chemical raw material, fossil fuel, coking, 'water gas' process, hydrogenation 1955 July p 58–67 energy resources, natural gas, oil reserves, energy economics, fossil fuel, impending petroleum shortage 1956 Oct p 43–49 Antarctica, fossil fauna, fossil flora, geology, paleontology, Glossopteris, continental drift evidence 1962 Sept p 168–184 [863] fossil fuel, underground gasification of coal 1948 Aug p 23 coal gasification, gas turbine, pollution control, oil gasification, energy resources 1972 Oct p 26–35	code, cryptology, polyalphabetic systems, rotor machine, cipher, history and technology of making and breaking ciphers and codes 1966 July p 38–46 code security, computer privacy, cryptography, data-bank confidentiality 1973 May p 15–23 codeine, analgesics, morphine, opium, poppy, heroin, Bentley's compound, drug action, search for strong, safe analgesic 1966 Nov p 131–136 [304] codon, genetic code, amino acid pairing, DNA, RNA, Gamow proposes triplet codon
fossil fuel, underground gasification of coal 1950 June p 52–55 chemical raw material, fossil fuel, coking, 'water gas' process, hydrogenation 1955 July p 58–67 energy resources, natural gas, oil reserves, energy economics, fossil fuel, impending petroleum shortage 1956 Oct p 43–49 Antarctica, fossil fauna, fossil flora, geology, paleontology, Glossopteris, continental drift evidence 1962 Sept p 168–184 [863] fossil fuel, underground gasification of coal 1948 Aug p 23 coal gasification, gas turbine, pollution control, oil gasification, energy resources 1972 Oct p 26–35 energy resources, gasification processes, Lurgi process, Hygas process,	code, cryptology, polyalphabetic systems, rotor machine, cipher, history and technology of making and breaking ciphers and codes 1966 July p 38–46 code security, computer privacy, cryptography, data-bank confidentiality 1973 May p 15–23 codeine, analgesics, morphine, opium, poppy, heroin, Bentley's compound, drug action, search for strong, safe analgesic 1966 Nov p 131–136 [304] codon, genetic code, amino acid pairing, DNA, RNA, Gamow proposes triplet codon 1955 Oct p 70–78 DNA, genetic code, base triplets, protein synthesis, nucleotide
fossil fuel, underground gasification of coal 1950 June p 52–55 chemical raw material, fossil fuel, coking, 'water gas' process, hydrogenation 1955 July p 58–67 energy resources, natural gas, oil reserves, energy economics, fossil fuel, impending petroleum shortage 1956 Oct p 43–49 Antarctica, fossil fauna, fossil flora, geology, paleontology, Glossopteris, continental drift evidence 1962 Sept p 168–184 [863] fossil fuel, underground gasification of coal 1948 Aug p 23 coal gasification, gas turbine, pollution control, oil gasification, energy resources 1972 Oct p 26–35 energy resources, gasification processes, Lurgi process, Hygas process, synthane process, CO ₂ acceptor process, coal technology	code, cryptology, polyalphabetic systems, rotor machine, cipher, history and technology of making and breaking ciphers and codes 1966 July p 38–46 code security, computer privacy, cryptography, data-bank confidentiality 1973 May p 15–23 codeine, analgesics, morphine, opium, poppy, heroin, Bentley's compound, drug action, search for strong, safe analgesic 1966 Nov p 131–136 [304] codon, genetic code, amino acid pairing, DNA, RNA, Gamow proposes triplet codon DNA, genetic code, base triplets, protein synthesis, nucleotide sequence, base triplet established as codon 1962 Oct p 66–74 [123]
fossil fuel, underground gasification of coal 1950 June p 52–55 chemical raw material, fossil fuel, coking, water gas process, hydrogenation 1950 July p 58–67 energy resources, natural gas, oil reserves, energy economics, fossil fuel, impending petroleum shortage 1956 Oct p 43–49 Antarctica, fossil fauna, fossil flora, geology, paleontology, Glossopteris, continental drift evidence 1962 Sept p 168–184 [863] fossil fuel, underground gasification of coal 1948 Aug p 23 coal gasification, gas turbine, pollution control, oil gasification, energy resources 1972 Oct p 26–35 energy resources, gasification processes, Lurgi process, Hygas process, synthane process, CO ₂ acceptor process, coal technology 1974 Mar p 19–25	1956 Apr p 131–140 code, cryptology, polyalphabetic systems, rotor machine, cipher, history and technology of making and breaking ciphers and codes 1966 July p 38–46 code security, computer privacy, cryptography, data-bank confidentiality 1973 May p 15–23 codeine, analgesics, morphine, opium, poppy, heroin, Bentley's compound, drug action, search for strong, safe analgesic 1966 Nov p 131–136 [304] codon, genetic code, amino acid pairing, DNA, RNA, Gamow proposes triplet codon 1955 Oct p 70–78 DNA, genetic code, base triplets, protein synthesis, nucleotide sequence, base triplet established as codon 1962 Oct p 66–74 [123] coelenterata, fossil record, precambrian animals, life 500 million years
lossil fuel, underground gasification of coal losso June p 52–55 chemical raw material, fossil fuel, coking, 'water gas' process, hydrogenation lossil fuel, coking, 'water gas' process, hydrogenation lossil fuel, coking, 'water gas' process, hydrogenation lossil fuel, compending petroleum shortage lossil geology, galeontology, Glossopteris, continental drift evidence lossil fuel, underground gasification of coal lossification, gas turbine, pollution control, oil gasification, energy resources lossil gasification processes, Lurgi process, Hygas process, synthane process, CO ₂ acceptor process, coal technology lossil hydrogenation, coal liquefaction, energy resources, oil and gas from coal lossil gasification, energy resources, oil and gas from coal lossil gasification, energy resources, oil and gas from coal lossil gasification process, energy resources, oil and gas from coal lossil gasification process.	code, cryptology, polyalphabetic systems, rotor machine, cipher, history and technology of making and breaking ciphers and codes 1966 July p 38–46 code security, computer privacy, cryptography, data-bank confidentiality 1973 May p 15–23 codeine, analgesics, morphine, opium, poppy, heroin, Bentley's compound, drug action, search for strong, safe analgesic 1966 Nov p 131–136 [304] codon, genetic code, amino acid pairing, DNA, RNA, Gamow proposes triplet codon 1955 Oct p 70–78 DNA, genetic code, base triplets, protein synthesis, nucleotide sequence, base triplet established as codon 1962 Oct p 66–74 [123] coelenterata, fossil record, precambrian animals, life 500 million years before present 1961 Mar p 77–78 [837]
fossil fuel, underground gasification of coal 1950 June p 52–55 chemical raw material, fossil fuel, coking, 'water gas' process, hydrogenation 1955 July p 58–67 energy resources, natural gas, oil reserves, energy economics, fossil fuel, impending petroleum shortage 1956 Oct p 43–49 Antarctica, fossil fauna, fossil flora, geology, paleontology, Glossopteris, continental drift evidence 1962 Sept p 168–184 [863] fossil fuel, underground gasification of coal 1948 Aug p 23 coal gasification, gas turbine, pollution control, oil gasification, energy resources 1972 Oct p 26–35 energy resources, gasification processes, Lurgi process, Hygas process, synthane process, CO ₂ acceptor process, coal technology 1974 Mar p 19–25 coal hydrogenation, coal liquefaction, energy economics, energy resources, oil and gas from coal 1976 May p 24–29 competes with coking 1952 July p 35	code, cryptology, polyalphabetic systems, rotor machine, cipher, history and technology of making and breaking ciphers and codes 1966 July p 38–46 code security, computer privacy, cryptography, data-bank confidentiality 1973 May p 15–23 codeine, analgesics, morphine, opium, poppy, heroin, Bentley's compound, drug action, search for strong, safe analgesic 1966 Nov p 131–136 [304] codon, genetic code, amino acid pairing, DNA, RNA, Gamow proposes triplet codon 1955 Oct p 70–78 DNA, genetic code, base triplets, protein synthesis, nucleotide sequence, base triplet established as codon 1962 Oct p 66–74 [123] coelenterata, fossil record, precambrian animals, life 500 million years before present 1961 Mar p 72–78 [837] coelocanth, fossil fish, evolution, land animals 1955 Dec p 34–39 [831]
fossil fuel, underground gasification of coal 1950 June p 52–55 chemical raw material, fossil fuel, coking, water gas' process, hydrogenation 1955 July p 58–67 energy resources, natural gas, oil reserves, energy economics, fossil fuel, impending petroleum shortage 1956 Oct p 43–49 Antarctica, fossil fauna, fossil flora, geology, paleontology, Glossopteris, continental drift evidence 1962 Sept p 168–184 [863] fossil fuel, underground gasification of coal 1948 Aug p 23 coal gasification, gas turbine, pollution control, oil gasification, energy resources 1972 Oct p 26–35 energy resources, gasification processes, Lurgi process, Hygas process, synthane process, CO ₂ acceptor process, coal technology 1974 Mar p 19–25 coal hydrogenation, coal liquefaction, energy economics, energy resources, oil and gas from coal 1976 May p 24–29 competes with coking 1952 July p 35 coal liquefaction, fossil fuel, petroleum reserves, coal reserves energy	code, cryptology, polyalphabetic systems, rotor machine, cipher, history and technology of making and breaking ciphers and codes 1966 July p 38–46 code security, computer privacy, cryptography, data-bank confidentiality 1973 May p 15–23 codeine, analgesics, morphine, opium, poppy, heroin, Bentley's compound, drug action, search for strong, safe analgesic 1966 Nov p 131–136 [304] codon, genetic code, amino acid pairing, DNA, RNA, Gamow proposes triplet codon 1955 Oct p 70–78 DNA, genetic code, base triplets, protein synthesis, nucleotide sequence, base triplet established as codon 1962 Oct p 66–74 [123] coelenterata, fossil record, precambrian animals, life 500 million years before present 1961 Mar p 72–78 [837] coelocanth, fossil fish, evolution, land animals
fossil fuel, underground gasification of coal 1950 June p 52–55 chemical raw material, fossil fuel, coking, 'water gas' process, hydrogenation 1955 July p 58–67 energy resources, natural gas, oil reserves, energy economics, fossil fuel, impending petroleum shortage 1956 Oct p 43–49 Antarctica, fossil fauna, fossil flora, geology, paleontology, Glossopteris, continental drift evidence 1962 Sept p 168–184 [863] fossil fuel, underground gasification of coal 1948 Aug p 23 coal gasification, gas turbine, pollution control, oil gasification, energy resources 1972 Oct p 26–35 energy resources, gasification processes, Lurgi process, Hygas process, synthane process, CO ₂ acceptor process, coal technology 1974 Mar p 19–25 coal hydrogenation, coal liquefaction, energy economics, energy resources, oil and gas from coal 1976 May p 24–29 competes with coking 1952 July p 35 coal liquefaction, fossil fuel, petroleum reserves, coal reserves energy consumption, liquid-fuel consumption, shale, tar sands, the fuel	code, cryptology, polyalphabetic systems, rotor machine, cipher, history and technology of making and breaking ciphers and codes 1966 July p 38–46 code security, computer privacy, cryptography, data-bank confidentiality 1973 May p 15–23 codeine, analgesics, morphine, opium, poppy, heroin, Bentley's compound, drug action, search for strong, safe analgesic 1966 Nov p 131–136 [304] codon, genetic code, amino acid pairing, DNA, RNA, Gamow proposes triplet codon 1955 Oct p 70–78 DNA, genetic code, base triplets, protein synthesis, nucleotide sequence, base triplet established as codon 1962 Oct p 66–74 [123] coelenterata, fossil record, precambrian animals, life 500 million years before present 1961 Mar p 72–78 [837] coelocanth, fossil fish, evolution, land animals 1955 Dec p 34–39 [831] coenzyme A: pantothenic acid coenzyme A, fat metabolism, fatty acids, ATP, enzymes
fossil fuel, underground gasification of coal 1950 June p 52–55 chemical raw material, fossil fuel, coking, water gas' process, hydrogenation 1950 July p 58–67 energy resources, natural gas, oil reserves, energy economics, fossil fuel, impending petroleum shortage 1956 Oct p 43–49 Antarctica, fossil fauna, fossil flora, geology, paleontology, Glossopteris, continental drift evidence 1962 Sept p 168–184 [863] fossil fuel, underground gasification of coal 1948 Aug p 23 coal gasification, gas turbine, pollution control, oil gasification, energy resources 1972 Oct p 26–35 energy resources, gasification processes, Lurgi process, Hygas process, synthane process, CO ₂ acceptor process, coal technology 1974 Mar p 19–25 coal hydrogenation, coal liquefaction, energy economics, energy resources, oil and gas from coal 1976 May p 24–29 competes with coking 1952 July p 35 coal liquefaction, fossil fuel, petroleum reserves, coal reserves energy consumption, liquid-fuel consumption, shale, tar sands, the fuel problem 1949 Dec p 32–39	1956 Apr p 131–140 code, cryptology, polyalphabetic systems, rotor machine, cipher, history and technology of making and breaking ciphers and codes 1966 July p 38–46 code security, computer privacy, cryptography, data-bank confidentiality 1973 May p 15–23 codeine, analgesics, morphine, opium, poppy, heroin, Bentley's compound, drug action, search for strong, safe analgesic 1966 Nov p 131–136 [304] codon, genetic code, amino acid pairing, DNA, RNA, Gamow proposes triplet codon 1955 Oct p 70–78 DNA, genetic code, base triplets, protein synthesis, nucleotide sequence, base triplet established as codon 1962 Oct p 66–74 [123] coelenterata, fossil record, precambrian animals, life 500 million years before present 1961 Mar p 72–78 [837] coelocanth, fossil fish, evolution, land animals 1955 Dec p 34–39 [831] coenzyme A: pantothenic acid coenzyme A, fat metabolism, fatty acids, ATP, enzymes 1954 Jan p 32–36 [16] fatty acid synthesis, microsome, acetic acid, lecithin, lipids, synthesis
fossil fuel, underground gasification of coal 1950 June p 52–55 chemical raw material, fossil fuel, coking, 'water gas' process, hydrogenation 1955 July p 58–67 energy resources, natural gas, oil reserves, energy economics, fossil fuel, impending petroleum shortage 1956 Oct p 43–49 Antarctica, fossil fauna, fossil flora, geology, paleontology, Glossopteris, continental drift evidence 1962 Sept p 168–184 [863] fossil fuel, underground gasification of coal 1948 Aug p 23 coal gasification, gas turbine, pollution control, oil gasification, energy resources 1972 Oct p 26–35 energy resources, gasification processes, Lurgi process, Hygas process, synthane process, CO ₂ acceptor process, coal technology 1974 Mar p 19–25 coal hydrogenation, coal liquefaction, energy economics, energy resources, oil and gas from coal 1976 May p 24–29 competes with coking 1952 July p 35 coal liquefaction, fossil fuel, petroleum reserves, coal reserves energy consumption, liquid-fuel consumption, shale, tar sands, the fuel problem 1949 Dec p 32–39 coal hydrogenation, energy economics, energy resources oil and gas from coal 1976 May p 24–29 competes with coking 1949 Dec p 32–39 coal hydrogenation, energy economics, energy resources oil and gas from coal 1976 May p 24–29	code, cryptology, polyalphabetic systems, rotor machine, cipher, history and technology of making and breaking ciphers and codes 1966 July p 38–46 code security, computer privacy, cryptography, data-bank confidentiality 1973 May p 15–23 codeine, analgesics, morphine, opium, poppy, heroin, Bentley's compound, drug action, search for strong, safe analgesics 1966 Nov p 131–136 [304] codon, genetic code, amino acid pairing, DNA, RNA, Gamow proposes triplet codon 1955 Oct p 70–78 DNA, genetic code, base triplets, protein synthesis, nucleotide sequence, base triplet established as codon 1962 Oct p 66–74 [123] coelenterata, fossil record, precambrian animals, life 500 million years before present 1961 Mar p 72–78 [837] coelocanth, fossil fish, evolution, land animals 1955 Dec p 34–39 [831] coenzyme A: pantothenic acid coenzyme A, fat metabolism, fatty acids, ATP, enzymes 1954 Jan p 32–36 [16] fatty acid synthesis, microsome, acetic acid, lecithin, lipids, synthesis not breakdown in reverse
fossil fuel, underground gasification of coal 1950 June p 52–55 chemical raw material, fossil fuel, coking, water gas' process, hydrogenation 1955 July p 58–67 energy resources, natural gas, oil reserves, energy economics, fossil fuel, impending petroleum shortage 1956 Oct p 43–49 Antarctica, fossil fauna, fossil flora, geology, paleontology, Glossopteris, continental drift evidence 1962 Sept p 168–184 [863] fossil fuel, underground gasification of coal 1948 Aug p 23 coal gasification, gas turbine, pollution control, oil gasification, energy resources 1972 Oct p 26–35 energy resources, gasification processes, Lurgi process, Hygas process, synthane process, CO ₂ acceptor process, coal technology 1974 Mar p 19–25 coal hydrogenation, coal liquefaction, energy economics, energy resources, oil and gas from coal 1976 May p 24–29 competes with coking 1952 July p 35 coal liquefaction, fossil fuel, petroleum reserves, coal reserves energy consumption, liquid-fuel consumption, shale, tar sands, the fuel problem 1949 Dec p 32–39 coal hydrogenation, energy economics, energy resources oil and gas from coal 1976 May p 24–29 Federal funding voted 1948 May p 24–29 Federal funding voted	code, cryptology, polyalphabetic systems, rotor machine, cipher, history and technology of making and breaking ciphers and codes 1966 July p 38–46 code security, computer privacy, cryptography, data-bank confidentiality 1973 May p 15–23 codeine, analgesics, morphine, opium, poppy, heroin, Bentley's compound, drug action, search for strong, safe analgesic 1966 Nov p 131–136 [304] codon, genetic code, amino acid pairing, DNA, RNA, Gamow proposes triplet codon 1955 Oct p 70–78 DNA, genetic code, base triplets, protein synthesis, nucleotide sequence, base triplet established as codon 1962 Oct p 66–74 [123] coelenterata, fossil record, precambrian animals, life 500 million years before present 1961 Mar p 72–78 [837] coelocanth, fossil fish, evolution, land animals 1955 Dec p 34–39 [831] coenzyme A: pantothenic acid coenzyme A, fat metabolism, fatty acids, ATP, enzymes 1954 Jan p 32–36 [16] fatty acid synthesis, microsome, acetic acid, lecithin, lipids, synthesis not breakdown in reverse 1960 Feb p 46–51 coesite, artificial diamonds, lithosphere, ultra-high pressure, borazon
fossil fuel, underground gasification of coal fossil fuel, coking, water gas' process, hydrogenation fossil fuel, underground gasification geology, paleontology, Glossopteris, continental drift evidence fossil fuel, underground gasification of coal for process, gasification processes, Lurgi process, Hygas process, synthane process, CO ₂ acceptor process, coal technology for dar p for Mar p for May p fo	1956 Apr p 131–140 code, cryptology, polyalphabetic systems, rotor machine, cipher, history and technology of making and breaking ciphers and codes 1966 July p 38–46 code security, computer privacy, cryptography, data-bank confidentiality 1973 May p 15–23 codeine, analgesics, morphine, opium, poppy, heroin, Bentley's compound, drug action, search for strong, safe analgesic 1966 Nov p 131–136 [304] codon, genetic code, amino acid pairing, DNA, RNA, Gamow proposes triplet codon 1955 Oct p 70–78 DNA, genetic code, base triplets, protein synthesis, nucleotide sequence, base triplet established as codon 1962 Oct p 66–74 [123] coelenterata, fossil record, precambrian animals, life 500 million years before present 1961 Mar p 72–78 [837] coelocanth, fossil fish, evolution, land animals 1955 Dec p 34–39 [831] coenzyme A: pantothenic acid coenzyme A: pantothenic acid coenzyme A, fat metabolism, fatty acids, ATP, enzymes 1954 Jan p 32–36 [16] fatty acid synthesis, microsome, acetic acid, lecithin, lipids, synthesis not breakdown in reverse 1960 Feb p 46–51 coesite, artificial diamonds, lithosphere, ultra-high pressure, borazon properties of matter under 2 × 10° p.s. 1959 No. p. 61-67
fossil fuel, underground gasification of coal fossil fuel, gasification fossil fuel, coking, water gas' process, hydrogenation fossil fuel, underground gasification geology, paleontology, Glossopteris, continental drift evidence fossil fuel, underground gasification of coal for p 26–35 foreign resources, gasification processes, Lurgi process, Hygas process, synthane process, CO2 acceptor process, coal technology fossil fuel diquefaction, energy economics, energy fosoires, oil and gas from coal form coal fossil fuel, petroleum reserves, coal reserves energy consumption, liquid-fuel consumption, shale, tar sands, the fuel problem form coal	1956 Apr p 131–140 code, cryptology, polyalphabetic systems, rotor machine, cipher, history and technology of making and breaking ciphers and codes 1966 July p 38–46 code security, computer privacy, cryptography, data-bank confidentiality 1973 May p 15–23 codeine, analgesics, morphine, opium, poppy, heroin, Bentley's compound, drug action, search for strong, safe analgesic 1966 Nov p 131–136 [304] codon, genetic code, amino acid pairing, DNA, RNA, Gamow proposes triplet codon 1955 Oct p 70–78 DNA, genetic code, base triplets, protein synthesis, nucleotide sequence, base triplet established as codon 1962 Oct p 66–74 [123] coelenterata, fossil record, precambrian animals, life 500 million years before present 1961 Mar p 72–78 [837] coelocanth, fossil fish, evolution, land animals 1955 Dec p 34–39 [831] coenzyme A: pantothenic acid coenzyme A, fat metabolism, fatty acids, ATP, enzymes 1954 Jan p 32–36 [16] fatty acid synthesis, microsome, acetic acid, lecithin, lipids, synthesis not breakdown in reverse 1960 Feb p 46–51 coesite, artificial diamonds, lithosphere, ultra-high pressure, borazon properties of matter under 2 × 10 ⁶ p s 1 1959 Nov p 61–67 meteorites, astroblemes shatter cones, cratering, fossil Earth- catastrophes
lossil fuel, underground gasification of coal lossil fuel, underground gasification of coal lossil fuel, underground gasification of coal lossil fuel, pollung p 52–55 chemical raw material, fossil fuel, coking, 'water gas' process, hydrogenation lossil fuel, coking, 'water gas' process, hydrogenation lossil fuel, underground gas, oil reserves, energy economics, fossil fuel, impending petroleum shortage lossil foci p 43–49 Antarctica, fossil fauna, fossil flora, geology, paleontology, Glossopteris, continental drift evidence lose Sept p 168–184 [863] fossil fuel, underground gasification of coal lossil fuel, underground gasification of coal lossil fuel, underground gasification of coal lossil fuel, pollution control, oil gasification, energy resources lose process, coal gasification, energy resources, gasification processes, Lurgi process, Hygas process, synthane process, CO2 acceptor process, coal technology lossil fuel process, coal inquefaction, energy economics, energy resources, oil and gas from coal lossil fuel, petroleum reserves, coal reserves energy consumption, liquid-fuel consumption, shale, tar sands, the fuel problem lossil fuel, petroleum reserves, energy resources oil and gas from coal lossil fuel, petroleum reserves, energy resources oil and gas from coal lossil fuel geonomics, energy resources oil and gas from coal lossil fuel petroleum reserves, energy consumption liquid-fuel consumption, shale, tar sands, coal liquefaction, the fuel problem lossil fuel petroleum reserves, energy consumption liquid-fuel consumption, shale, tar sands, coal liquefaction, the fuel problem lossil fuel petroleum reserves, energy consumption liquid-fuel consumption, shale, tar sands, coal liquefaction, the fuel problem lossil fuel petroleum reserves, energy consumption liquid-fuel consumption, shale, tar sands, coal liquefaction, the fuel problem	1956 Apr p 131–140 code, cryptology, polyalphabetic systems, rotor machine, cipher, history and technology of making and breaking ciphers and codes 1966 July p 38–46 code security, computer privacy, cryptography, data-bank confidentiality 1973 May p 15–23 codeine, analgesics, morphine, opium, poppy, heroin, Bentley's compound, drug action, search for strong, safe analgesic 1966 Nov p 131–136 [304] codon, genetic code, amino acid pairing, DNA, RNA, Gamow proposes triplet codon 1955 Oct p 70–78 DNA, genetic code, base triplets, protein synthesis, nucleotide sequence, base triplet established as codon 1962 Oct p 66–74 [123] coelenterata, fossil record, precambrian animals, life 500 million years before present 1961 Mar p 72–78 [837] coelocanth, fossil fish, evolution, land animals 1955 Dec p 34–39 [831] coenzyme A: pantothenic acid coenzyme A, fat metabolism, fatty acids, ATP, enzymes 1954 Jan p 32–36 [16] fatty acid synthesis, microsome, acetic acid, lecithin, lipids, synthesis not breakdown in reverse 1960 Feb p 46–51 coesite, artificial diamonds, lithosphere, ultra-high pressure, borazon properties of matter under 2 × 10° ps 1 1959 Nov p 61–67 meteorites, astroblemes shatter cones, cratering, fossil Earth- catastrophes 1960 Sent p 104
lossil fuel, underground gasification of coal lossil fuel, underground gasification of coal lossil fuel, underground gasification of coal lossil fuel, pollung p 52–55 chemical raw material, fossil fuel, coking, 'water gas' process, hydrogenation lossil fuel, coking, 'water gas' process, hydrogenation lossil fuel, underground gas, oil reserves, energy economics, fossil fuel, impending petroleum shortage lossil foci p 43–49 Antarctica, fossil fauna, fossil flora, geology, paleontology, Glossopteris, continental drift evidence lose Sept p 168–184 [863] fossil fuel, underground gasification of coal lossil fuel, underground gasification of coal lossil fuel, underground gasification of coal lossil fuel, pollution control, oil gasification, energy resources lose process, coal gasification, energy resources, gasification processes, Lurgi process, Hygas process, synthane process, CO2 acceptor process, coal technology lossil fuel process, coal inquefaction, energy economics, energy resources, oil and gas from coal lossil fuel, petroleum reserves, coal reserves energy consumption, liquid-fuel consumption, shale, tar sands, the fuel problem lossil fuel, petroleum reserves, energy resources oil and gas from coal lossil fuel, petroleum reserves, energy resources oil and gas from coal lossil fuel geonomics, energy resources oil and gas from coal lossil fuel petroleum reserves, energy consumption liquid-fuel consumption, shale, tar sands, coal liquefaction, the fuel problem lossil fuel petroleum reserves, energy consumption liquid-fuel consumption, shale, tar sands, coal liquefaction, the fuel problem lossil fuel petroleum reserves, energy consumption liquid-fuel consumption, shale, tar sands, coal liquefaction, the fuel problem lossil fuel petroleum reserves, energy consumption liquid-fuel consumption, shale, tar sands, coal liquefaction, the fuel problem	1956 Apr p 131–140 code, cryptology, polyalphabetic systems, rotor machine, cipher, history and technology of making and breaking ciphers and codes 1966 July p 38–46 code security, computer privacy, cryptography, data-bank confidentiality 1973 May p 15–23 codeine, analgesics, morphine, opium, poppy, heroin, Bentley's compound, drug action, search for strong, safe analgesic 1966 Nov p 131–136 [304] codon, genetic code, amino acid pairing, DNA, RNA, Gamow proposes triplet codon 1955 Oct p 70–78 DNA, genetic code, base triplets, protein synthesis, nucleotide sequence, base triplet established as codon 1962 Oct p 66–74 [123] coelenterata, fossil record, precambrian animals, life 500 million years before present 1961 Mar p 72–78 [837] coelocanth, fossil fish, evolution, land animals 1955 Dec p 34–39 [831] coenzy me A: pantothenic acid coenzy me A; pantothenic acid coenzy me A; fat metabolism, fatty acids, ATP, enzymes 1954 Jan p 32–36 [16] fatty acid synthesis, microsome, acetic acid, lecithin, lipids, synthesis not breakdown in reverse 1960 Feb p 46–51 coesite, artificial diamonds, lithosphere, ultra-high pressure, borazon properties of matter under 2 × 10 ⁶ ps 1 1959 Nov p 61–67 meteorites, astroblemes shatter cones, cratering, fossil Earth- catastrophes found in nature 1960 Sept p 104 Arizona Barringer Crater
fossil fuel, underground gasification of coal fossil fuel, underground gasification, geology, water gas' process, hydrogenation fossil fuel, underground gasification, geology, paleontology, Glossopteris, continental drift evidence fossil fuel, underground gasification of coal for process, gasification processes, Lurgi process, Hygas process, synthane process, CO2 acceptor process, coal technology for dar p for Mar p for May for Ma	code, cryptology, polyalphabetic systems, rotor machine, cipher, history and technology of making and breaking ciphers and codes 1966 July p 38–46 code security, computer privacy, cryptography, data-bank confidentiality 1973 May p 15–23 codeine, analgesics, morphine, opium, poppy, heroin, Bentley's compound, drug action, search for strong, safe analgesic 1966 Nov p 131–136 [304] codon, genetic code, amino acid pairing, DNA, RNA, Gamow proposes triplet codon DNA, genetic code, base triplets, protein synthesis, nucleotide sequence, base triplet established as codon 1962 Oct p 66–74 [123] coelenterata, fossil record, precambrian animals, life 500 million years before present 1961 Mar p 72–78 [837] coelocanth, fossil fish, evolution, land animals 1955 Dec p 34–39 [831] coenzyme A: pantothenic acid coenzyme A, fat metabolism, fatty acids, ATP, enzymes 1954 Jan p 32–36 [16] fatty acid synthesis, microsome, acetic acid, lecithin, lipids, synthesis not breakdown in reverse 1960 Feb p 46–51 coesite, artificial diamonds, lithosphere, ultra-high pressure, borazon properties of matter under 2 × 10° ps i 1959 Nov p 61–67 meteorites, astroblemes shatter cones, cratering, fossil Earth- catastrophes found in nature 1960 Sept p 104 Arizona Barringer Crater 1960 Sept p 104 Paraona Barringer Crater 1962 Feb p 78 cognitive development, child development, human behavior, infant perceptions, discrepancy principle
fossil fuel, underground gasification of coal 1950 June p 52–55 chemical raw material, fossil fuel, coking, 'water gas' process, hydrogenation 1955 July p 58–67 energy resources, natural gas, oil reserves, energy economics, fossil fuel, impending petroleum shortage 1956 Oct p 43–49 Antarctica, fossil fauna, fossil flora, geology, paleontology, Glossopteris, continental drift evidence 1962 Sept p 168–184 [863] fossil fuel, underground gasification of coal 1948 Aug p 23 coal gasification, gas turbine, pollution control, oil gasification, energy resources 1972 Oct p 26–35 energy resources, gasification processes, Lurgi process, Hygas process, synthane process, CO ₂ acceptor process, coal technology 1974 Mar p 19–25 coal hydrogenation, coal liquefaction, energy economics, energy resources, oil and gas from coal 1976 May p 24–29 competes with coking 1952 July p 35 coal liquefaction, fossil fuel, petroleum reserves, coal reserves energy consumption, liquid-fuel consumption, shale, tar sands, the fuel problem 1949 Dec p 32–39 coal hydrogenation, energy economics, energy resources oil and gas from coal 1976 May p 24–29 Federal funding voted 1948 May p 32 coal mining, land reclamation, strip mining 1975 Dec p 23–29 coal reserves, fossil fuel petroleum reserves, energy consumption liquid-fuel consumption, shale, tar sands, coal liquefaction, the fuel problem 1949 Dec p 32–39 iron ore, steel markets transportation changing geography of steel 1952 Jan p 44–53 biography of William Real	code, cryptology, polyalphabetic systems, rotor machine, cipher, history and technology of making and breaking ciphers and codes 1966 July p 38–46 code security, computer privacy, cryptography, data-bank confidentiality 1973 May p 15–23 codeine, analgesics, morphine, opium, poppy, heroin, Bentley's compound, drug action, search for strong, safe analgesic 1966 Nov p 131–136 [304] codon, genetic code, amino acid pairing, DNA, RNA, Gamow proposes triplet codon DNA, genetic code, base triplets, protein synthesis, nucleotide sequence, base triplet established as codon 1962 Oct p 66–74 [123] coelenterata, fossil record, precambrian animals, life 500 million years before present 1961 Mar p 72–78 [837] coelocanth, fossil fish, evolution, land animals 1955 Dec p 34–39 [831] coenzyme A: pantothenic acid coenzyme A, fat metabolism, fatty acids, ATP, enzymes 1954 Jan p 32–36 [16] fatty acid synthesis, microsome, acetic acid, lecithin, lipids, synthesis not breakdown in reverse 1960 Feb p 46–51 coesite, artificial diamonds, lithosphere, ultra-high pressure, borazon properties of matter under 2 × 10° ps i 1959 Nov p 61–67 meteorites, astroblemes shatter cones, cratering, fossil Earth- catastrophes found in nature 1960 Sept p 104 Arizona Barringer Crater 1960 Sept p 104 1962 Feb p 78 congitive development, child development, human behavior, infant perceptions, discrepancy principle
fossil fuel, underground gasification of coal fossil fuel, underground gasification, geology, water gas' process, hydrogenation fossil fuel, underground gasification, geology, paleontology, Glossopteris, continental drift evidence fossil fuel, underground gasification of coal for process, gasification processes, Lurgi process, Hygas process, synthane process, CO2 acceptor process, coal technology for dar p for Mar p for May for Ma	code, cryptology, polyalphabetic systems, rotor machine, cipher, history and technology of making and breaking ciphers and codes 1966 July p 38–46 code security, computer privacy, cryptography, data-bank confidentiality 1973 May p 15–23 codeine, analgesics, morphine, opium, poppy, heroin, Bentley's compound, drug action, search for strong, safe analgesic 1966 Nov p 131–136 [304] codon, genetic code, amino acid pairing, DNA, RNA, Gamow proposes triplet codon 1955 Oct p 70–78 DNA, genetic code, base triplets, protein synthesis, nucleotide sequence, base triplet established as codon 1962 Oct p 66–74 [123] coelenterata, fossil record, precambrian animals, life 500 million years before present 1961 Mar p 72–78 [837] coelocanth, fossil fish, evolution, land animals 1955 Dec p 34–39 [831] coenzyme A: pantothenic acid coenzyme A, fat metabolism, fatty acids, ATP, enzymes 1954 Jan p 32–36 [16] fatty acid synthesis, microsome, acetic acid, lecithin, lipids, synthesis not breakdown in reverse 1960 Feb p 46–51 coesite, artificial diamonds, lithosphere, ultra-high pressure, borazon properties of matter under 2 × 10° ps 1 properties of ps 10-58 [801]

cognitive dissonance, human behavior, social psychology, experiments in	callidana beam accolorator qualetera anni
preperception 1962 Oct in 93, 102 (422)	colliding beam accelerator, cyclotron, synchrotron, high energy physic
concrent radiation, radar, microwaves, spectroscopy, molecular bonds	by the state of the parties of the accepta
resonance absorption, energy levels, quantum jumps, quantum	high-energy physics, storage rings, synchrotron, particle accelerator
electrodynamics, time-keeping, foundation of maser, laser	spark chamber 1966 Nov p 107-116
technology 1948 Sept p 16-23	antimatter, high-energy physics, electron-
maser, microwave amplification, stimulated emission, quantum	DOSHFOR applying proton parton model guardum
mechanics, principles and uses of maser 1958 Dec p 42-50 [215]	electrodynamics 1973 Oct p 104
laser, maser, stimulated emission, first lasers as 'optical masers'	high-energy physics, particle interaction, proton-proton interaction,
1961 June p 52-61 [274]	CERN 1973 Nov p 36
molecular beam, electron theory, resonance absorption, atomic	particle accelerator, new orders of collision energy 1978 Mar p
radiation, gas molecules, nuclear magnetic resonance, Stern-Gerlach	colliding galaxies, galactic clusters, radio astronomy, powerful signals
	may extend reach of astronomy 1956 Sept p 125-
interference, Brillouin scattering, energy levels, laser light	colonial building, white pine, North American forests, Royal Navy, Kir
1968 Sept p 120-136 Cohonina, Amerindian, Havasupai, Paleolithic culture, prehistoric man in	Broad Arrow, American Revolution 1948 June p 48
	colonialism, pidgin, linguistics, Creole, gullah, grammar, evolution and
the Grand Canyon 1958 Feb p 97-102 coins, archeology, statistics, numismatics, Taxila hoard, India	claboration of colonial languages 1959 Feb p 124-
1966 Feb p 102-111	colonization, human population, human migration, immigration policy
counterfeiting, numismatics, Roman Britain 1974 Dec p 120–130	slave trade 1974 Sept p 92-i
coking, coal, chemical raw material, fossil fuel, 'water gas' process,	color, stellar evolution, short-lived stars, main sequence
hydrogenation 1955 July p 58-67	1953 Mar p 34- spectroscopy, materials technology, photoelectric effect, laser
colchicine, chromosome doubling, plant genetics, hybrid cells,	transparency, optical properties of materials 1967 Sept p 238-2
'cataclysmic evolution' 1951 Apr p 54-59	photoelectric effect, reflection, refraction, light, resonance absorption
arthritis, gout, metabolism, chemistry of gout 1958 June p 73-81	photon, electron, interaction of light with matter
cold adaptation, Arctic flora, desert adaptation, paleobotany, Greenland	1968 Sept p 60-
flora, adaptations to Arctic climate 1956 Feb p 88-98	antimatter, electron-positron annihilation, I particle, psi particle,
carrbou, rodent, moose, polar ecology, animal adaptation to Arctic	charm, quark, high-energy physics, storage rings, virtual particles
1960 Jan p 60-68	1975 June p 50-4
adipose tissue, hibernation, brown fat, thermoregulation, homeostasis,	color and illumination, color vision, reflection, 'retinex' theory, visual
metabolism, neonatal physiology, heat production in newborn	perception, visual pigments, 'color Mondrian' experiment
animals, including man 1965 Aug p 62-65 [1018]	1977 Dec p 108-128 [139
circulatory system, thermoregulation, fur, metabolism, insulation	color blindness, sex linked traits, dichromatism, physiology and psychology of a vision defect 1951 Mar p 48-5
1966 Jan p 94–101 [1032]	psychology of a vision defect 1951 Mar p 48-5 cone cells, fovea, genetic disease, retinal image-processing, visual
'cold-blooded' animals, behavioral adaptation, pigmentation, thermoregulation, lizard, reptile, behavioral thermoregulation	pigments 1975 Mar p 64-74 [131]
1959 Apr p 105-120	color centers, photolysis, photochemistry, chemical reaction, reaction
ectothermy, metabolism, heterothermy, insect flight, sphin's moths,	kinetics, free radicals, spectroscopy, high speed chemistry
temperature regulation, Mandura sexta warm-up mechanisms	1960 May p 134-14
1972 June p 70-77 [1252]	color discriminination, in cats 1964 June p 5
cold cathode, electron beam, current density, X-ray photography, field	color fusion, color scission, perceptual transparency, physical
emission 1964 Jan p 108–118	transparency, optical illusion, transparency, visual perception 1974 Apr p 90-98 [559
'cold light', bioluminescence, glow worm, firefly, abyssal fish, luciferase	
1948 May p 46-49	color holography, holography, laser, microscopy, white-light reconstruction 1968 Feb p 40-48
cold war, economic development, military expenditures, politics of aid, 'righ' nations 1972 Apr p 15-21	color perception, insect eve, compound eve, optical resolution, insect
'rich' nations, 'poor' nations 1972 Apr p 15-21 colicine, ATP, cell membrane, membrane energetics, active transport, E	behavior 1948 July p 42-45
coh 1975 Dec p 30–37 [1332]	vision form nercentian role of experience in visual perception
collicine-K action defined 1959 June p 81	1949 Aug p 52-55
collegen proteins heta chain, alpha helix, polypeptide synthesis,	eye, vision, retinal pigments, cone cells, trichromaticity implies three
polymers, amino acids, synthesis and architecture of proteins	cone pigments 1962 Nov p 120–132 [139]
1957 Sept p 1/3-184 [/]	surface colors, chromatic saturation, hue 1975 Aug p 62-75 [565] frog's blue preference 1963 Jan p 62
elastın, keratın, myosın, fıbrın, cell, polymers, polymers in living cells 1957 Sept p 204-216 [35]	frog's blue preference 1963 Jan p 62 cone cells of three kinds 1964 May p 60
1937 Sept p 204-210 [33]	color photography science history Marwell's color photograph first
proline, hydroxyproline, collagen fibril, tropocollagen, connective tissue, nature and properties of most abundant protein	three-color photograph 1961 Nov p 118-128
tissue, nature and properties of most abundant protein 1961 May p 120–130	emission nebulae interstellar gas, ionization, nebular luminosity
aging, tendons, biological age 1963 Apr p 104-114 [155]	1974 Oct p 34-45
Long mercelectricity osteogenesis, calcium metabolism, botte	from silver-halide emulsions 1951 Jan p 30
7	color scission, color fusion, perceptual transparency, physical transparency, optical illusion, transparency, visual perception
wound healing, regeneration, leukocyte, fibroblasts, epidermal cells	1974 Apr p 90–98 [559]
the same plants	color television, picture elements, line structure, field-scanning rate
elastin, fibroblasts, microfibrils 1971 June p 44–52 [1225] blood plasma, cell-surface antigens, glycoproteins, interferon, protein 1974 May p 78–86 [1295]	technology assessment, competing color television systems weighed
blood plasma, cell-surface antigens, grycoprostation 1974 May p 78–86 [1295]	1950 Dec p 13-17
molecule 1974 Nov p 49	compatability with black and white 1950 Oct p 25 hitigation continues 1951 July p 28
collagen-cutting enzyme, configents in disease collagen fibril, collagen, proline, hydroxyproline, tropocollagen, collagen fibril, collagen, proline, and properties of most abundant protein	httgation continues 1951 July p 28 designed by E O Lawrence 1951 Nov p 33
connective fissile. Baluic and proportion	hack to the laboratory 1951 Dec p 34
1066 1 61	enterstation Jearning conditioned behavior, behavioral psychology.
	Skinner box, visual discrimination pigeons conditioned to respond
collective-effect accelerators, electron-ring according 1972 Apr p 22-33	to discrete wavelengths of light 1958 Jan p. 77-82 [403]
accelerator, particle-storage rings	visual perception, 'long' and 'short' wavelengths in color perception 1959 May p 84-99 [223]
collector ions, flotation, nuneral separation, surface 1956 Dec p 99-110	1962 May p 62-72 [465]
beneficiation college graduates, intellectual resources of U.S., doctorates, test scores 1951 Sept. p. 42-46	visual nerception constancy effect, neutral colors
1951 Sept p 42-40	1963 Jan p 107-116 14741

afterimages, photochemistry, sensory discrimination, visual pigments,	infant speech, language, learning, meaningful consistencies in infant habble 1949 Sept p 22–24 [417]
photochemistry of color perception 1963 Oct p 84–93 [1089]	babble 1949 Sept p 22–24 [417] electronics, electron tubes, amplifiers, communication technology,
amphibian, frog, retina, retinal image-processing, visual perception, retinal processing of visual sensation 1964 Mar p 110–119	rectifiers, electron optics, cathode-ray tube, power, thermionic
retinal processing of visual sensation 1964 Mar p 110-119 retina, cone cells, pigments, ganglion cells, spectrophotometry, three-	emission state of the technology 1950 Oct p 30–39
color receptor system 1964 Dec p 48–56 [197]	leadership, social psychology, 'work patterns profiles', people in groups
color and illumination reflection, 'retinex' theory, visual perception,	1951 Feb p 26–28
visual pigments, 'color Mondrian' experiment	microwaves, optical properties, Maxwell's equations, traveling-wave
1977 Dec p 108–128 [1392]	tube, klystron, magnetron, waveguides, radar 1952 Aug p 43-51
light-pipe experiment 1961 Dec p 78	radio, frequency modulation, Armstrong, life and work of Edwin H
three pigments identified 1963 Dec p 68	Armstrong 1954 Apr p 64-69 human evolution, speech, language, origin of speech
blue at 450, green at 533, red at 590 millimicrons 1964 Nov p 56	1960 Sept p 88–96 [603]
rhodopsin mobility 1972 May p 50 1976 Feb p 57	honeybee, insect behavior, bee dances, honeybee sound communication
With Tod CCB3	1964 Apr p 116–124 [181]
Columbia Valley Authority, on TVA model 1949 Mar p 26 oma cluster, optical and radio red shift 1956 Oct p 66	cities, urbanization, Industrial Revolution, agricultural revolution,
ombat fatigue, ACTH, war, stress, psychiatry, Korean war studies of	origin and evolution of cities 1965 Sept p 54-63
battlestress 1956 Mar p 31-35	artificial satellite, telecommunication, data transmission, pulse-code
combinatorial analysis, mathematics, probability, normal curve, Brownian	modulation, digital transmission 1966 Sept p 144-156
motion, Markov chain, Pascal's triangle, statistics, probability theory	bilingualism, language, reading, information processing, learning
1964 Sept p 92–108	1968 Mar p 78–86 territorial behavior, pheromones, rabbits, scent glands, pecking order,
scheduling, algorithms, critical path scheduling, bin-packing,	territorial marking by rabbit 1968 May p 116–126 [1108]
mathematization of efficiency 1978 Mar p 124–132 [3001]	bird song, songbirds, syrinx, mechanism of sound production
combustibility, air pollution, catalysis, fly ash, dust storms, metallurgy, fine particles 1950 Dec p 50-53	1969 Nov p 126–139 [1162]
combustion chamber design, automobile engines, high compression,	African drum language, drums, gong language, talking drums
'knock', high-octane fuel, mechanical vs chemical solutions for	1971 Dec p 90-94
premature combustion 1950 Feb p 16–19	communication technology, cybernetics, information theory, language,
combustion instability, rocket engine, resonant combustion, propellant,	machine communication, introduction to single-topic issue on
acoustic oscillation 1968 Dec p 94–103	communication 1972 Sept p 30-41 [677] cell communication, genetic code, nerve impulse, hormonal action,
Comecon, computer technology, U S S R, software, integrated circuits	metabolic information 1972 Sept p 42-51 [1257]
1970 Oct p 102–108 comensalism, ants, insect behavior, animal communication, ant 'guests',	verbal communication, acoustic formants, phonetics,
parasitism, pheromones 1971 Mar p 86–93 [1213]	markedness/unmarkedness dyad, morphemes, syntax, context
comet, orbital motion, comet tails, spectroscopy, composition and origin	sensitivity, invariant/variable dyad 1972 Sept p 72-80
of comets 1951 July p 22–26	information theory, painting, sculpture, architecture, visual
solar radiation, Halley's comet, physics of comet tails	communication, trademarks, language, visual stimulus, visual signals
1958 Oct p 44–50	1972 Sept p 82–96 [548]
geomagnetism, magnetic reversals, tektites, meteorites, meteoritic	communication networks, communication satellite, electronic switching, multiplexing, network theory, radio, telephone systems,
impacts 1967 July p 32–38 galactic formation, nebular hypothesis, solar system evolution, stellar	television systems 1972 Sept p 116–128
evolution 1975 Sept p 32–41	communication terminals, computer technology, communication
backward tail explained 1957 Sept p 58	technology, microwave relays, transmitters, receivers
comet belt, Pluto, Neptune's orbit 1964 Aug. p 43	1972 Sept p 130–140
comet origins, cometary structure, exotic molecules, solar system,	communication technology, network hierarchies, two-way channels,
primordial dust cloud Comet Kohoutek 1974 Feb p 48–57	computer-assisted instruction, information retrieval, National Academy of Engineering study, 'Communications Technology for
comet tails, comet, orbital motion, spectroscopy, composition and origin of comets 1951 July p 22–26	Urban Improvement', 'wired city' concept 1972 Sept p 142–150
cometary structure, comet origins, exotic molecules, solar system	mass communication media, message systems, television violence,
primordial dust cloud, Comet Kohoutek 1974 Feb p 48–57	cultural patterns, sociology, mass communications as social
commerce, Classical archeology, underwater archeology, Roman empire,	environment 1972 Sept p 152–160 [679]
amphora 1954 Nov p 98–104	freedom of expression, civil rights, U S First Amendment
market, agricultural system, peasants, peasant markets in Haiti	1972 Sept p 163–172 [680]
1960 Aug p 112–122 [647]	crying infant behavior, neonatal disorder, mother-child interaction, sound spectrogram 1974 Mar p 84-90 [558]
money, bride price, cultural anthropology, red-feather money, Southwest Pacific-Solomon Islands culture 1962 Mar p 94-104	sound spectrogram 1974 Mar p 84-90 [558] gypsy moth, biological pest control, pheromones, olfactory receptors,
Assyrian civilization, Anatolia, 2000 B C, trade patterns	sex attractants, silk moth, chemotaxis 1974 July p 28-35 [1299]
1963 Feb p 96–106	computer language, man machine interface, talking computers
Vikings, nomads, Scandinavia, Vinland, Siegfried legend, seafaring,	1975 Mar p 36–42
Svea, appraisal of 400-year Viking ascendance 1967 May p 66–78	eye, nonverbal communication, pupil size, effect of pupil size on
invention, technology, patent-law reform 1967 June p 19–27 commercial aircraft, aeronautics, supersonic flight, aircraft design, sonic	attitude 1975 Nov p 110-119 [567] child development, language, social speech 1977 Feb p 100-105 [576]
boom, aviation industry, technology and economics of supersonic	radio, bouncing microwaves 1955 Sept p 69
transport 1964 June p 25-35	radio millimeter-wave region proposed 1970 Dec. p. 42
Committee for Economic Development, see CED	communication channels, carrier-wave modulation, coaxial cable
commodity prices, underdeveloped countries 1974 July p 46	communication technology, electromagnetic spectrum fiber optics
common cold, virus disease, human subjects chilling test, Salisbury, England study 1951 Feb p 39-45	radiowave bandwidth, noise 1972 Sept p 98–113
virus disease, tissue culture, 20 strains cultured 1960 Dec p 88–102	communication networks, communication satellite, electronic switching, multiplexing, network theory, radio, communication telephone
virus in tissue culture 1953 Nov p 52	systems television systems 1972 Sept p. 116, 129
Johns Hopkins virus vaccine 1957 Nov p 72	communication satellite, artificial satellite, telecommunication, orbital
virus cultured in monkey embryo kidney tissue 1960 Apr p 86 six distinct cold viruses 1967 Mar p 70	motion, Echo II satellite, radio, satellite communication systems
not reveal by abilian	consideration of alternatives 1961 Oct = 00 102
communication, information theory thermodynamics entropy	communication networks, electronic switching, multiplexing, part cel
1949 July p 11–15	theory, radio, communication telephone systems television systems
	1972 Sept p 116-128

10

cognitive dissonance, human behavior, social psychology, experiments in	mattition to the same of the s
1967 Oct p 03 103 1477	
Concrete random, radar, microwayes, specifoscony, molecular hands	S The state of the
resonance absorption, energy levels, quantum mimos quantum	high engrouphysics at 2251
electrodynamics, time-keeping, foundation of maser, laser	high-energy physics, storage rings, synchrotron, particle accelerator, spark chamber 1966 Nov p 107-116 [323]
technology 1948 Sent n 16 23	spark chamber 1966 Nov p 107-116 [323] antimatter, high-energy physics, electron-
maser, microwave amplification, stimulated emission, quantum	C. come El Istalistation Control
mechanics, principles and uses of maser 1958 Dec. p. 42_50 1215	positron annihilation, proton, parton model, quantum electrodynamics 1973 Oct. p. 104-113
iaser, maser, sumulated emission, first lasers as 'optical masers'	high-energy physics marticle interestion proton proton interestion
1961 June p. 52-61 (274)	C E.R N 1973 Nov. p 36-44
molecular ocam, electron theory, resonance absorption, atomic	particle accelerator, new orders of collision energy 1978 Mar p 70
radiation, gas molecules, nuclear magnetic resonance, Stern-Gerlach	Colliding galaxies, galactic clusters, radio astronomy, non-eful signals
experiment 1965 May n. 58-74	may extend reach of astronomy 1956 Sept p 125-134
interference, brittonin scattering, energy levels, laser light	colonial building white rung North American forests Royal Nava King's
1968 Sept p 120-136	Broad Arrow, American Revolution 1948 June p 48-53
Cohonina, Amerindian, Havasupai, Paleolithic culture, prehistoric man in	colonialism, pidgin, linguistics Creole oullab grammar evolution and
the Grand Canyon 1958 Feb p. 97–102	claboration of colonial languages 1959 Feb p 124-134
coins, archeology, statistics, numismatics, Taxila hoard, India	colonization, human population, human migration, immigration policy,
counterfeiting, numusmatics, Roman Britain 1966 Feb p 102–111 1974 Dec p 120–130	slave trade 1974 Sept p 92-105
counterfeiting, nunusmatics, Roman Britain 1974 Dec p 120-130 coking, coal, chemical raw material, fossil fuel, 'water gas' process	color, stellar evolution, short-lived stars, main sequence
	1953 Mar p 34-37
hydrogenation 1955 July p 58-67 colchicine, chromosome doubling, plant genetics, hybrid cells.	spectroscopy, materials technology, photoelectric effect, laser,
'cataclysmic evolution' 1951 Apr p 54-59	transparency, optical properties of materials 1967 Sept p 238-248
arthritis, gout, metabolism, chemistry of gout 1958 June p 73-81	photoelectric effect, reflection, refraction, light, resonance absorption,
cold adaptation, Arcue flora, desert adaptation, paleobotany, Greenland	photon, electron, interaction of light with matter 1968 Sept p 60-71
flora, adaptations to Arctic climate 1956 Feb p 88-98	antimatter, electron-positron annihilation, J particle, psi particle,
carrbou, rodent, moose, polar ecology, animal adaptation to Arctic	charm, quark, high-energy physics, storage rings, virtual particles
1960 Jan p 60-68	1975 June p 50-62
adipose tissue, hibernation, brown fat, thermoregulation, homeostasis,	color and illumination, color vision, reflection, 'retinex' theory, visual
metabolism, neonatal physiology, heat production in newborn	perception, visual pigments, 'color Mondrian' experiment
animals, including man 1965 Aug p 62-65 [1018]	1977 Dec p 108–128 [1392]
circulatory system, thermoregulation, fur, metabolism, insulation	color blindness, sex linked traits, dichromatism, physiology and
1966 Jan p 94-101 [1032]	psychology of a vision defect 1951 Mar p 48-53
'cold-blooded' animals, behavioral adaptation, pigmentation,	cone cells, fovea, genetic disease, retinal image-processing, visual
thermoregulation, lizard, reptile, behavioral thermoregulation	pigments 1975 Mar p 64-74 [1317]
ectothermy, metabolism, heterothermy, insect flight, sphinx moths,	color centers, photolysis, photochemistry, chemical reaction, reaction kinetics, free radicals, spectroscopy, high speed chemistry
temperature regulation, Mandura sexta warm-up mechanisms	1960 May p 134-143
1972 June p 70–77 [1252]	color discriminination, in cats 1964 June p 59
cold cathode, electron beam, current density, X-ray photography, field	color fusion, color scission, perceptual transparency, physical
emission 1964 Jan p 108–118	transparency ontical illusion transparency visual perception
'cold light', bioluminescence, glow worm, firefly, abyssal fish, luciferase	1974 Apr p 90-98 [337]
1948 May p 46-49	color holography, holography, laser, microscopy, white-light reconstruction 1968 Feb p 40-48
cold war, economic development, military expenditures, politics of aid,	reconstruction 1908 Feb p 40-40
'rich' nations, 'poor' nations 1972 Apr p 15-21	color perception, insect eye, compound eye, optical resolution, insect behavior 1948 July p 42-45
colicine, ATP, cell membrane, membrane energetics, active transport, E coli 1975 Dec p 30-37 [1332]	usion form perception, role of experience in visual perception
coli 1975 Dec p 30-37 [1332] colicine-K, action defined 1959 June p 81	1949 Aug p 52-55
collagen, proteins, beta chain, alpha helix, polypeptide synthesis,	eve vision retinal numents cone cells trichromaticity implies three
polymers, amino acids, synthesis and architecture of proteins	cone pigments 1962 Nov p 120-132 [139]
1957 Sept p 173–184 [7]	surface colors, chromatic saturation, hue 1975 Aug p 62-75 [565]
elastin, keratin, myosin, fibrin, cell, polymers, polymers in living cells	frog's blue preference 1963 Jan p 62 cone cells of three kinds 1964 May p 60
1957 Sept p 204-216 [35]	
proline, hydroxyproline, collagen fibril, tropocollagen, connective	color photography, science history, Maxwell's color photograph, first three-color photograph 1961 Nov p 118-128
tissue, nature and properties of most abundant protein 1961 May p 120-130	emission nebulae interstellar cas ionization, nebular luminosity
	1974 Oct p 34-45
aging, tendons, biological age 1963 Apr p 104-114 [155] bone, piezoelectricity, osteogenesis, calcium metabolism, biological age 1963 Apr p 104-114 [155]	from silver-halide emulsions 1951 Jan p 30
adamtation to mechanical stress 1900 UCL P 10-23 (1021)	color session, color fusion, perceptual transparency physical
wound healing, regeneration, leukocyte, librobiasts, epidermai cells	transparency, optical illusion, transparency, visual perception 1974 Apr p 90-98 [559]
1969 June p 40-50 [1144]	color television, picture elements, line structure, field-scanning rate
elastin, fibroblasts, microfibrils 1971 June p 44-52 [1225]	technology assessment, competing color television systems weighed
blood plasma, cell-surface antigens, glycoproteins, interferon, protein 1974 May p 78–86 [1295]	1950 Dec p 13-1/
	compatability with black and white 1950 Oct p 25
collagen-cutting cityme, conagenate hydroxyproline, tropocollagen,	lingation continues 1951 July p 20
appropries freque manife and properites of most as area	designed by E O Lawrence 1951 Nov p 33 hool to the laborator 1951 Dec p 34
10/5 %	advantage teaming conditioned behavior, behavioral psychology
	Skinner box, visual discrimination, pigeons conditioned to respond
collective-effect accelerators, electron-ring accelerator, parties 1972 Apr p 22-33	1938 Jan n 77-82 (403)
accelerator, particle-storage rings 1972 Apr p 22-33	visual perception "long" and "snort wavelengths in color perception
accelerator, particle-storage rings collector ions, flotation, nuneral separation, surfactant, bubbles, ore 1956 Dec p 99-110	1959 May p 84-99 [223] vision visual adaptation, human eye 1962 May p 62-72 [465]
beneficiation	all acception constancy effect, neutral colors
college graduates, intellectual resources of 0 5, 5 and 1951 Sept p 42-46	1963 Jan p 107-116 [474]

ompound eye, insect eye, color perception, optical resolution, insect behavior 1948 July p 42-45	artificial intelligence chess-playing computer 1958 June p 96-105 artificial intelligence, minutes of man-machine chess game 1973 June p 92-105
eye, insect eye, ommatidia 1977 July p 108-120 [1364]	1074 37
Compton effect Cerenkov radiation 1951 Oct p 54-55	championship 1974 Nov p 51
ionizing radiation, photoelectric effect, chemical effects, cytology, free	Cheops readied for play 1976 July p 66
radicals, lethal effects of radiation 1951 Dec p 22-25	Chess 45 vs Levy 1977 June p 56
quantum mechanics, Planck, science history, spectroscopy, black body,	computer-controlled fabrication, electron optics, microcircuit fabrication,
resonators, Einstein, photoelectric effect, quantum jumps	silicon 'chips', computer technology, integrated circuits
1952 Mar p 47–54 [205]	1972 Nov p 34-44
computability theory, Chinese remainder theory, Diophantine equations,	computer decision making. accounting systems design, computer
Hilbert program, mathematics 1973 Nov p 84–91	technology, bookkeeping, uses of computers in organizations
Hilbert program, mathematics 1973 Nov p 84-91 computer, integrated circuits, memory circuits, 'Simple Simon' a minimal	1966 Sept p 192–202
	computer design, automata theory, Turing machine, von Neumann
computer 1930 Nov p 40-43	machine, brain circuitry 1955 Apr p 58–67
Babbage, difference engine, analytical engine, digital computer, life and	computer theory, integration of processor and memory, parallel
work of Charles Babbage 1952 Apr p 66–72	processing, sequential processing, microelectronics
automatic control, solid-state electronics, analog-to-digital conversion,	1977 Sept p 210–228 [383]
digital computer, analogue computer, the universal machine	computer displays, cathode-ray tube, computer technology, information
1952 Sept p 116-130	theory, light pen, computer graphics, rand tablet, computer graphics
mathematics, number theory, computer finds five perfect numbers	and man machine interface 1966 Sept p 86–96
1953 Mar p 84–86	computer enhancement, Mars, space exploration, telemetry, television
communication technology, magnetic tape, magneto-optical recording,	
recording, playback 1969 Nov p 70–82	camera, computer graphics, Mariner IV photographs, Martian
calculating machine, pocket calculator, integrated circuits, memory	topography 1966 Apr p 54-68
1976 Mar p 88–98	visual perception, information theory, computer graphics, 'block
speed limits 1968 Mar p 50	portraits', pattern recognition, recognition of faces
computer algorithms, computer-assisted imaging, image reconstruction,	1973 Nov p 70–82
computer graphics, medical care, tomography, CAT scan	Caruso recording 1975 July p 48
1975 Oct p 56–68	computer failure, flip-flop indecision 1973 Apr p 43
computer analysis, chromosomal anomalies, pattern recognition,	computer graphics, pattern recognition, visual perception, stereoscopic
computer graphics, computer recognition and classification of	images, texture discrimination, depth perception
chromosomes 1966 Apr p 40–46 [1040]	1965 Feb p 38–48 [318]
stone tools, tool assemblages, multivariate analysis, factor analysis,	computer applications, fluid dynamics, computer modeling, scaling
Paleolithic archeology, Bordes method, stone tools as fossils of	wind tunnel, vortex 1965 Mar p 104-110
behavior 1969 Apr p 70–84 [643]	chromosomal anomalies, pattern recognition, computer analysis,
evolution, proteins, species specificity, cytochrome, amino-acid	computer recognition and classification of chromosomes
substitution, phylogeny from amino-acid substitution	1966 Apr p 40-46 [1040]
1969 July p 86–95 [1148]	Mars, space exploration, computer enhancement, telemetry, television
automatic cell sorting, blood cell analysis, lymphocytes, pattern	camera, Mariner IV photographs, Martian topography
recognition, automatic analysis of white cells 1970 Nov p 72-82	1966 Apr p 54–68
Epistles of St Paul 1964 Jan p 56	cathode ray tube, computer technology, computer displays,
the meaning of Samuel Becket's 'lessness' 1973 Aug. p 47	information theory, light pen, rand tablet, computer graphics and
computer applications, business computers, computer goes to market	man-machine interface 1966 Sept p 86–96
1954 Jan p 21–25	camera, lens design, telescope, interferometry, image formation, light 1968 Sept p 96-108
fluid dynamics, computer modeling, scaling, wind tunnel, vortex,	automatic control, computerized design, computer technology, control
computer graphics 1965 Mar p 104–110	systems, uses of computer in technology 1966 Sept p 176–188
reapportionment, redistricting, elections, representative government,	aerodynamics, airfoil, boomerang, actual and theoretical boomerang
gerrymander 1965 Nov p 20–27	orbits 1968 Nov p 124-136
computer technology, information theory, binary arithmetic, computer industry, computer privacy, introduction to single-topic issue on	molecular structure, electron shells, computer modeling, quantum
information processing 1966 Sept p 64–73	chemistry, molecular orbits 1970 Apr p 54-70
syntactic analysis, analog-to-digital conversion, computer modeling,	laser, integrated circuits, computer technology, computer modeling.
computer technology, computer as instrument and as 'actor' in	programs logic of displays 1970 June p 56–81
science 1966 Sept p 160–172	visual perception, information theory, 'block portraits', computer
botany, taxonomy, set theory, zoology, numerical taxonomy, computer	enhancement, pattern recognition, recognition of faces
classification of living things 1966 Dec p 106–116 [1059]	1973 Nov p 70–82
electronic typesetting printing, photographic typesetting, digital	architectural drawing, computer modeling 1974 May p 98–106
computer, mechanical composition, cathode-ray tube	computer algorithms computer-assisted imaging, image
1969 May p 60-69	reconstruction, medical care, tomography, CAT scan
automatic control, machine tool, parts manufacture, batch process	1975 Oct p 56-68
production methods 1975 Feb p 22–29	computer history, mathematics, arithmetic, computer's contribution to
robot, assembly, labor-saving devices manufacturing productivity.	mathematics 1964 Sept p 202–216
programmable robot for product assembly 1978 Feb p 62-74 [929]	Bacon's cipher, binary code, Boolean algebra, science history, Jacquard
on production line 1953 May D 55	loom, punched cards 1972 Aug. p 76–83
computer-assisted imaging, computer algorithms, image reconstruction.	computer industry, computer technology, information theory, binary
computer graphics medical care, tomography, CAT scan	arithmetic, computer privacy, computer applications introduction to
1975 Oct n 56-68	single-topic issue on information processing 1966 Sept. p. 64-73
ultrasonics medical diagnosis, optics echo-sounding, sonar, imaging	computer language, computer programming, systems analysis computer
internal organs by ultrasound 1978 Max n 98-113 (1389)	technology, how to write a computer program 1966 Sept. p. 112-124
computer-assisted instruction, communication technology, network	communication man machine interface, talking computers
hierarchies communication, two-way channels, information	1975 Mar n 36 47
retneval National Academy of Engineering study, 'Communications Technology for Urban Improvement', 'wired city' concept	algorithms computer programming, hash table, binary search trees
	1977 Apr p 63-80
computer assisted tomographs, see CAT scan	in natural languages
computer champions MANIAC and FNIAC 1062 Aug p. 26	computer memory, computer technology digital computer analogue
computer chess, artificial intelligence automata theory 'thinking'	computer, relay computers binary arithmetic logic automates
approaches an operational definition 1950 Feb p 48-51	control control systems, status of 'mathematical machines'
1700 to p 1 21	1949 Apr p 28-39

artificial satellite, COMSAT, Intelsat, Communications Satellite Act	SHALL CALADON TOD
1977 Feb p S8-73 [353	auxins, serotonin, LSD, neurophysiology, physiological function of
Toleton described to Toleton described to the Sept p 8	reptile, marine birds, adaptation, salt executing alanda
comparative performance of satellite systems 1963 Sept. p. 9.	1959 Jan n 109-116
educational television 1966 Sant p. 10	hamanialan
COMSAT plans 1971 Sept p 76	S laboratory animals nig small nig as experimental animal assemblence
011 file 1976 Apr n 5	to man 1966 June p 94-100 [1045]
communication technology, electronics, electron tubes, amplifiers,	heat exchange, mackerel shark, rete mirabile, thermoregulation, tuna,
rectifiers electron optics, cathode-ray tube, communication, power, thermionic emission, state of the technology 1950 Oct p 30-39	Warm-bodied fishes 1973 Feb p 36_44 [1266]
radio, ionosphere, microwave transmission, troposphere, ionosphere	i pressure, breathing, gratte tespitation
and tropospheric scattering 1957 Jan p. 46-51	1974 Nov p 96-105 [1307] comparative psychology, insect behavior, social insect army ant, ants,
interplanetary navigation, spacecraft, orbital motion, rocket.	reproduction, feedback, pheromones, trophallaxis, natural history,
navigation, technology of space navigation 1960 Mar p. 64-73	philosophy of science, anthropomorphism 1948 June p 16–23
laser, signal transmission, multiplexing signal transmission by laser	learning, thinking, thesus monkeys 'learning to think'
1966 Jan p 19-27 [302] pulse-code modulation, digital transmission, binary arithmetic,	to be straight as a set of
television, transmission quality, telephone, AM, FM	fear, emotional development, learning, influence of early environment, experiments with dogs 1956 Jan p 38-42 [469]
1968 Mar p 102-108	
laser, pulse-code modulation, electron optics, Kerr effect, Pockel's	innate behavior, learning behavior, field observation of praine dog
effect, polarization, modulators, modulation of laser light	communities 1959 Oct p 128–140
1968 June p 17–23	desert adaptation, kidney function, salt-water balance,
magnetic tape, computer, magneto-optical recording, recording, playback 1969 Nov p 70-82	thermoregulation, man camel comparison
carrier-wave generator, crystal structure, diode laser, laser,	1959 Dec p 140-151 [1096] Visual cliff, depth perception, infant, visual perception, genesis of
heterostructure lasers, lighf-emitting semiconductor, solid-state	depth perception 1960 Apr p 64-71
electronics 1971 July p 32-40	baboons, human evolution, social behavior, social anthropology, Kung
cable television, television, wired-city concept 1971 Oct p 22-29	bushmen, sexual behavior, origin of society
cybernetics, information theory, language, machine communication,	1960 Sept p 76-87 [602]
communication, introduction to single-topic issue on communication 1972 Sept p 30-41 [677]	ethology, social behavior, gulls, animal behavior, evolution, reconstructing gull family tree from behavior of species
carrier-wave modulation, coaxial cable, electromagnetic spectrum, fiber	1960 Dec p 118-130 [456]
optics, radiowave, communication channels, bandwidth, noise	baboons, social behavior, sexual behavior, baboon troops in their
1972 Sept p 98–113	natural environment 1961 June p 62-71 [614]
communication terminals, computer technology, communication, microwave relays, transmitters, receivers 1972 Sept p 130-140	cichlid fish, manne iguana, rattlesnake, fighting behavior, animal behavior, oryx 1961 Dec p 112–122 [470]
microwave relays, transmitters, receivers 1972 Sept p 130–140 network hierarchies, communication, two-way channels, computer-	group behavior, crowding, rats, population density, social pathology of
assisted instruction, information retrieval, National Academy of	crowding 1962 Feb p 139–148 [200]
Engineering study, 'Communications Technology for Urban	primate behavior, chimpanzee, social behavior, tool-using, observation
Improvement', 'wired city' concept 1972 Sept p 142–150	of chimpanzees in the wild 1962 May p 128-138 [463] social deprivation, rhesus monkeys, maternal deprivation, peer group.
sound waves, crystal surface waves, electronic equipment Rayleigh waves, signal processing, ultrasonic waves 1972 Oct p 50-68	experiments in social deprivation 1962 Nov p 136-146 [473]
laser, fiber optics, light pipe, light-emitting diode 1973 Nov p 28–35	parental care, emotional development, abnormal behavior, maternal
digital transmission, microelectronics, telecommunication	deprivation, early experience and emotional development.
1977 Sept p 192–209 [382]	experiments with rats 1963 June p 138–146 [478] cardiac function, hagfish, cyclosomes, knot-tying fish, hermaphrodiae
communication terminals, computer technology, communication technology, communication, microwave relays, transmitters,	1966 Feb p 82-90 [1033]
receivers 1972 Sept p 130–140	teaching elephants 1956 June p 66
community action, education, poverty, group behavior, rural poverty	comparative religion, ethnic groups, gene isolation, Israel, Judaism,
emotional illness, social psychology, study of community	Samaritans, Holon and Nablus communities 1977 Jan p 100-108 [690]
regeneration 1965 May p 21-27 [634] group behavior, poverty, culture of poverty, subculture of Western	competition, cooperation, social psychology 1950 Apr p 54-36
market societies 1966 UCL D 19-23 [031]	complement-fixation test, virology, neutralization test, hemagglutination
and the second of the second o	test 1955 Mar p 60-70
medical specialist, laboratory services Bingham plan, organization	complex numbers, quaternions, non-commutative algebra, mathematics, high-energy physics, Hamilton, life and work of William Rowan
bada/1000 nonulation 1948 Aug p 22	Hamilton 1954 May p 82-87
beds/ 1000 population mental health, emotional illness,	mathematics, number theory, negative numbers, irrational numbers,
psychiatric hospital population, psychoactive drugs, psychotherapy,	matrix 1964 Sept p 50-59 complexity theory, networks, switchboards, mathematics from networks
psychiatry, psychoanalysis 1973 Sept p 116-127 emotional illness, skid row, drug addiction, psychoactive drugs,	and su uching systems 1978 June p 114-124 [3013]
'deinstitutionalization' of the emotionally ill	composite materials, glass fiber, materials technology, synthetic fiber,
[9761 00 p 40-33 [301]	plastics, properties of 'two-phase' materials 1962 Jan p 124-134 crystal structure, metals whiskers, liber-reinforced, dislocations,
community mental-health movement, Gheel, Belgium, model 1975 Jan p 49	matery two phase materials 1965 Feb p 28-3/
et and the mass transit automobile.	place metals materials technology, ceramics, polymers, chemical band,
	atom, elements, introduction to single-topic issue on materials
transportation 1965 Sept p 162–174	materials technology, whiskers fiber glass, two-phase materials, fiber-
comparative anatomy, badger, dog horse, electan, locombinative 1960 May p. 148-157	renforced composites, matrix eulectics 1967 Sept p 160-176
running, how animais run	cermets dispersion-strengthened composites, liber-reinforced
comparative grammar, Indo-European languages reconstructing genealogy of Indo-European languages 1958 Oct p 63-74	composites, particulates 1973 July p 36-44 automobile propulsion, electric power generation, energy storage,
reconstructing genealogy of indo-Editor 1958 Oct p 63-74	19/3 Dec n 17-23
comparative physiology, erythrocyte, hematology, structure of red blood 1957 Jan p 95-102	composite numbers, number theory, magic squares binary arithmetic
cell	prime number 1951 July p 52-55

ARPANET, computer inter-communication 1972 June p 52	eye, vision, retinal pigments, color perception, trichromaticity implies
computer theory, games theory, logic, algorithms, problem solving,	three cone pigments 1962 Nov p 120–132 [139]
Turng machine 1965 Nov p 98–106	color vision, retina, pigments, ganglion cells, spectrophotometry, three- color receptor system 1964 Dec p 48-56 [197]
computer design, integration of processor and memory, parallel	rod cells, visual cells, autoradiography, protein synthesis, renewal
processing, sequential processing, microelectronics 1977 Sept p 210–228 [383]	mechanisms in retinal cells 1970 Oct p 80–91
computer time sharing, queues, traffic, mathematics, operations research,	retina, receptor cells, rod cells, retinal sensitivity, retinal information
applications of queuing theory 1968 Aug p 96–103	processing maintains high contrast image over broad range of
computer translation, linguistics, information theory 1956 Jan p 29–33	illumination 1973 Jan p 70–79
language, computer study of structure of language 1962 June p 68-76	color blindness, fovea, genetic disease, retinal image-processing visual
Chinese language, pattern recognition, experiment in machine	pigments 1975 Mar p 64-74 [1317] cone of avoidance, aurora, magnetic storms, sunspots, solar wind, solar
translation 1963 June p 124–135	rotation, corpuscular streams, cycles in 'solar wind'
Chinese language, Chinese writing, tones, Mandarin Chinese, Chinese dialects 1973 Feb p 50-60	1955 Feb p 40-45
dialects 1973 Feb p 30-00 computerized design, automatic control, computer technology, control	conference, group behavior, interpersonal relationships, social
systems, computer graphics, uses of computer in technology	psychology 1955 Mar p 31–35
1966 Sept p 176–188	confirmation theory, hypothesis-testing, logic, inductive proof, philosophy
COMSAT, artificial satellite, communication satellite, Intelsat,	of science, probability 1973 May p 75-83
Communications Satellite Act (1962) 1977 Feb p 58–73 [353]	conflict, attention, learning, physiological psychology, novelty, monotony, conflict and arousal, aid to learning
concrete, Portland cement, hydration, X-ray diffraction, cement, chemistry of concrete 1964 Apr p 80–92	1966 Aug p 82–87 [500]
chemistry of concrete 1964 Apr p 60-92 concrete-polymer, gamma-radiation hardening process 1969 Apr p 50	conformational isomerism, hydrocarbons, chemical bond, organic
concrete shrinkage, cement expander 1964 Oct p 60	molecules, conformation and reactivity 1970 Jan p 58-70 [331]
condensation nuclei, weather control, cloud seeding, silver iodide, Project	conformity, perception, social pressure 1955 Nov p 31-35 [450]
Cirrus, dry ice 1952 Jan p 17–21	adolescence, interpersonal relationships, social psychology, U S
meteorology, ocean foam, salt particles, cloud physics, rain, seasalt and	teenage attitudes 1958 June p 25–29
rain 1957 Oct p 42–47	group behavior, social psychology, human subjects, group pressure, experiments in susceptibility to group pressure 1961 Dec p 45-51
ice, snow, water, frost, supercooling, ice worms, how water freezes 1959 Feb p 114-122	congenital anomalies, agammaglobulinemia, gene expression,
crystal growth, snow crystals, natural and artificial condensation nuclei	alkaptonuria, Wilson's disease, chemistry of hereditary disease, one
1961 Jan p 120–131	gene-one enzyme hypothesis 1956 Dec p 126–136
upper atmosphere, cloud, mesopause, meteoritic dust, rocket-borne	cleft palate, fetal injury, embryonic development, teratogenesis, rubella,
collectors sample noctifucent clouds 1963 June p 30–39	teratology 1957 Oct p 109–116
condensation polymers, molecular science, polymers, addition polymers,	genetic disease, hemophilia, epidemiology, mutation, in Queen Victoria's descendants 1965 Aug p 88-95
introduction to single-topic issue on 'giant molecules' 1957 Sept p 80-89	purpura, virus disease, vaccine, teratogenesis, pregnancy, congenital
molecular science, polymers, addition polymers, introduction to single-	rubella, rubella 1966 July p 30–37
topic issue on 'giant molecules' 1957 Nov p 80-89	ateliosis, midgets, pituitary insufficiency, dwarfism, genetic disease,
conditioned behavior. Payloy, behavioral psychology, biography and	consanguinity, growth hormone deficiency, panhypopituitarism,
appraisal of I P Paylov 1949 Sept p 44-47	General Tom Thumb 1967 July p 102-110 see also genetic disease, chromosomal anomalies
color vision, learning, behavioral psychology, Skinner box, visual	congenital rubella, congenital anomalies, purpura, virus disease vaccine,
discrimination, pigeons conditioned to respond to discrete wavelengths of light 1958 Jan p 77–82 [403]	teratogenesis, pregnancy, rubella 1966 July p 30–37
electroencephalography, brain waves, learning sleep, correlation of	Congo, Pygmies, social anthropology, Bambuti, symbyotic relationship of
brain waves to behavior 1959 Aug p 89-96	jungle Pygmies and pastoral-village peoples
learning, visual perception, Fechner's law, psychophysics, Skinner box,	[963 Jan p 28–37 [615]
behavioral psychology, pigeon perception 1961 July p 113-122 [458]	Congressional investigation, content analysis, newspapers, military secrecy, 'Condon case', content analysis of newspaper coverage of
planarian, learning, maze running, 'protopsychology', evidence of	political attacks on E U Condon 1949 Feb p 16-21
learning in a primitive nervous system 1963 Feb p 34-62	conic sections, Fermat, Descartes, mathematics history, analytic
learning, kinesthetic memory, behavioral psychology, place-learning	geometry, Euler, mathematics 1949 Jan p 40-45
1963 Oct p 116-122 [479]	geometry, mathematics, topology, non-Euclidian geometry, history and current uses of geometry 1964 Sept. p. 60-69
learning, long-term memory, short-term memory, lobotomy, octopus, touch, sensory perception, correlation of brain structure and	contine, alkaloids, plant physiology, morphine, strychnine 'hemlock',
function in octopus 1965 Mar p 42–50 [1006]	physostigmine, caffeine, quinine, cocaine, ricinine LSD, human
brain metabolism, memory, protein synthesis, goldfish, learning	toxins in plant physiology 1959 July p 113-121 (1087)
1967 June n. 115–122 [JU//]	conjugation, bacteria, sexual reproduction, recombinant DNA gene
electrochemistry of conditioned behavior 1957 Nov p 74	recombination, sexuality in bacteria 1956 July p 109–118 [50]
behavioral psychology, effect of reinforcement on learning 1958 Dec p 58	bacteria, bacteriophage, gene recombination, recombinant DNA, mechanisms of heredity and infection in bacteria
see also operant conditioning, behavioral new cholony	1961 June n 92-107 1891
conditioned reflex, spinal reflexes reflex conditioning, "spinal" cats (1 e	Connecticut River, calefaction, fission reactor, thermal pollution
with resected spinal cords) walk 1950 Nov p 20–22	industrial cooling, nuclear power, fisheries, ecology, fish crisis
automata theory, learning, feedback 1951 Aug p 60-63 neurosis, operant conditioning, Paylov, psychology, thyroidectomy	1970 May p 42-52 [1177] connective tissue, collagen proline, hydroxyproline, collagen fibril,
stress, emotional behavior, neurosis conditioned reflex is shown to	tropocollagen, nature and properties of most abundant protein
	1961 Max p. 120_130
Control case, content analysis, newspaper	connective tissue cell, cell anatomy, spermatozoon, ovum varus science
of polytical attacks on E. U. Condon	nistory, eviology, muscle cell plant cell, introduction to single-topic
locals and security Condon's multi-1.	issue on the living cell 1961 Sept p 50-61 [90] consanguinity, ateliosis midgets pituitary insufficiency, dwarfism
conduction electrons, crystal energetics on and	genetic disease, congenital anomalies, growth hormone defining
properties particle concept, Fermi surface metal	pann) population (leneral for Thumb 1067 t 102 110
cone cells exe rod cells return the onte-	blood groups genetic drift, mutation, gene pool, evolution, population
anatomy and physiology of the eve camera as metaphor	
1950 Aug p 32-41 [46]	cannabis sanva marijuana drug abuse, pharmacology,
Soo Mak h 32 at 1 at	1969 Dec p 17-25 [524]

ferroelectric crystal memory, ferrite cores, mercury delay line, magnetic	feedback can Naversey and
tape, magnetic arum 1955 June p. 02 100	
crystal structure, magnetism, ferrites, materials technology, micrough	a state of the sta
radiation, industrial applications of iron oxides	algorithms. Koenigsberg bridges, undecidable questions, polynomial
1960 June p 92–104	time problems, exponential-time problems, efficiency of algorithms
binary arithmetic, computer technology, integrated circuits, switching	1978 Jan p 96–109 [395]
elements, logic circuits, microelectronics, hardware of computer	computer technology, digital computer, analogue computer, relay
oxide semiconductors, magnetic core, integrated circuits,	computers, binary arithmetic, logic, automatic control, computer
microelectronics, advent of integrated-circuit semiconductor	memory, control systems, status of 'mathematical machines'
	1949 Apr p 28-39
memories 1967 July p 18–31 integrated circuits, metal-oxide semiconductors, microelectronics,	transistor, junction transistor, vacuum tube, electronics, forecast of a
large-scale integrated circuits, logic circuits, transistor	'revolution in electronics' 1951 Aug p 13-17
1970 Feb n 22-31	Voder, speech recognition, sound spectrogram 1955 Feb p 92-98 Antikythera, planetary motion, Greek computer, ancient instruments,
magnetic-bubble memories, magnetic domains 1971 June p. 78–90	science history, Classical archeology, 2,000 year-old computer
charge-coupled devices, charge transfer, image sensing, semiconductor	1959 June p 60-67
memories 1974 Feb p 22-31	molecular replication, self-reproducing machine, automata theory,
photographic film 1955 Sept p 74	machine models of molecular assembly 1959 June p 105-114 [74]
cryotron circuitry 1956 June p 64	pattern recognition, artificial intelligence 1960 Aug p 60-68
computer modeling, crystal structure, molecular motion, particle motion	cry ogenic technology, superconductivity, superconducting computers
key to bulk properties of materials 1959 Oct p 113-126 [265]	1961 July p 124–136
Monte Carlo method, gas kinetics, mathematical model, chemistry by computer 1964 July p 100-108	computer programming error-correcting codes, redundancy for error
computer applications, fluid dynamics, scaling, wind tunnel, vortex,	detection 1962 Feb p 96-108 central nervous system, redundancy, reliability, error suppression
computer graphics 1965 Mar p 104–110	1964 Feb p 103–112 [298]
mathematical model, giant molecules, cytochrome helix, myoglobin,	information theory, binary arithmetic, computer industry, computer
hemoglobin, molecular modeling, DNA 1966 June p 42-52 [1043]	privacy, computer applications, introduction to single-topic issue on
computer applications, syntactic analysis, analog-to-digital conversion,	information processing 1966 Sept p 64-73
computer technology, computer as instrument and as 'actor' in	binary arithmetic, integrated circuits, switching elements, logic circuits
science 1966 Sept p 160–172	computer memory, microelectronics, hardware of computer
cities, urban transport, personal-transit systems, systems analysis, mass	1966 Sept p 74-85
transit 1969 July p 19–27	cathode-ray tube, computer displays, information theory, light pen,
molecular structure, electron shells, quantum chemistry, molecular orbits, computer graphics 1970 Apr p 54-70	computer graphics, rand tablet, computer graphics and man machine interface 1966 Sept p 86-96
orbits, computer graphics 1970 Apr p 54-70 computer graphics, laser, integrated circuits, computer technology,	computer programming, computer language, systems analysis, how to
programs, logic of displays 1970 June p 56-81	write a computer program 1966 Sept p 112-124
continental drift, plate tectonics, scaling, subduction, sea-floor	time-sharing man-machine interface, multiple terminals, multiple users
spreading, Earth crust, Triassic period, Pangaea, supercontinents,	1966 Sept p 120-140
breakup of Pangaea traced 1970 Oct p 30-41 [892]	computer applications, syntactic analysis analog-to-digital conversion
architectural drawing, computer graphics 1974 May p 98–106	computer modeling, computer as instrument and as actor in science 1966 Sept p 160-172
chemical reaction, oscillating reagents, rotating chemical reactions,	automatic control, computerized design, control systems, computer
non-linear reactions 1974 June p 82–95 microelectronics, minicomputers, personal computers, FLEX, LOGO,	graphics, uses of computer in technology 1966 Sept p 176–188
SMALLTALK 1977 Sept p 230–244 [384]	accounting systems design computer decision making, bookkeeping
embryonic development, growth, grid-transformation, the shaping of	uses of computers in organizations 1966 Sept p 192-202
tissues in embryos 1978 June p 106–113 [1391]	education, teaching machine, programmed instruction, individualized
paranoia 1973 Feb p 48	teaching 1966 Sept p 200~220 [555]
computer music, music, information theory, redundancy, computer study	information storage, information retrieval, microrecording electronic scanner, microfiche, library science 1966 Sept p 224-242
of structure of music 1959 Dec p 109–120 Paratrop compositions 1956 Sept p 120	scanner, microfiche, library science 1966 Sept p 224-242 artificial intelligence, heuristic programs, computer programming
Datatron compositions 1936 Sept. p. 120 computer privacy, computer technology, information theory, binary	1966 Sept p 240-200
arithmetic, computer industry, computer applications, introduction	binary arithmetic, maximum computer speed 1968 Oct p 93-100
to single-topic issue on information processing 1966 Sept p 64-73	computer graphics, laser, integrated circuits, computer modeling,
code security, cryptography, data-bank confidentiality	programs, logic of displays 1970 June p 56-81
19/3 May p 13-23	USSR, software, Comecon, integrated circuits 1970 Oct p 102-108 computer programming, parallel processing, sequential processing
by cryptography 1970 Jan p 52	ILLIAC IV fastest computer 1971 Feb p 76-87
Netional Pureau of Standards sateguards 1977 Feb p 30	cluster seeking algorithms, pattern recognition reading machines
computer programming, error-correcting codes, computer technology, redundancy for error detection 1962 Feb p 96–108	1971 Apr p 56-71
redundancy for circle accounts	communication terminals, communication technology, communication,
response stability, dynamic programming, policy concept	microwave relays, transmitters, receivers 1972 Sept p 130-140 electron optics, microcircuit fabrication, computer-controlled
1904 Sept p 180-200	fabrication, silicon 'chips', integrated circuits 1972 Nov p 34-44
computer language, systems analysis, computer technology, how to	automatic control, electric power generation, generator control power-
1300 Dept p 112 12.	system control 1974 Nov. p. 34-44
artificial intelligence, computer technology, heuristic programs 1966 Sept p 246–260	automatic control, instructable machines, robot systems
to local parallel processing, sequential processing,	servomechanisms 1976 Feb p 76-86B microcomputers, microprocessors, microelectronics
ip71 Feb p 76–87	1977 Sept p 146–161
	distributed-processing networks, microelectronics
1964 Aug. D 44	1977 Sept p 162–177 [380]
	tik-tak toe machine 1949 Oct p 29
Cooley-Tukey algorithm for Fourier analysis	machine for translation 1949 Dec p 30 hants' check in programs 1950 July p 27
conjuter science, cybernetics, feedback, automatic control, self- regulation, automata theory, mechanical, biological, social self- 1948 Nov p 14-19	'parity' check in programs 1950 July p 27 for Naval ordnance 1955 Feb p 62
regulation, automata theory, mechanical, biological, 1948 Nov p 14-19 regulation	high coned printer 1936 June p. 62
100000000	software into hardware, SYMBOL system 1972 Mar p 42

control panel, automatic control, continuous processing, fluid dynamics,	copper, trace elements, iron, manganese, zinc. magnesium, iodine, human
petroleum refinery, automatic chemical plant 1952 Sept. p. 82-96	nutrition 1953 Jan. p. 22–25
control systems, computer technology, digital computer, analogue	metallurgy, New World archeology, New World archeology, Old Copper culture, Peru, gold, lost-wax casting, metalwork, pre-
computer, relay computers, binary arithmetic, logic, automatic	Columbian, New World, 4,000 B.C. 1966 Apr. p. 72–81
control, computer memory, status of 'mathematical machines' 1949 Apr. p. 28-39	metal artifacts, Turkey, metallurgy, Neolithic archeology, village-
automatic control, servomechanisms, actuators, frequency response,	farming communities, man's first use of metals: 7,500 B.C.
pneumatic servomechanisms, hydraulic servomechanisms, control	1970 Mar. p. 50–56
systems 1952 Sept. p. 56–64	copper biochemistry, ceruloplasmin, hemocyanin, oxygen transport.
enzymes, protein synthesis, hemoglobin, myoglobin, feedback,	enzymes, copper deficiency, cytochrome oxidase, Wilson's disease, tyrosinase 1968 May p. 102-114
cooperative enzymes, allosteric enzymes, control of biochemical reactions 1965 Apr. p. 36–45 [1008]	copper deficiency, ceruloplasmin, hemocyanin, oxygen transport,
reactions 1965 Apr. p. 36–45 [1008] automatic control, computerized design, computer technology,	enzymes, cytochrome oxidase, copper biochemistry, Wilson's
computer graphics, uses of computer in technology	disease, tyrosinase 1968 May p. 102-114
1966 Sept. p. 176–188	'coppering', friction, Leonardo, Coulomb, technology history, sliding
chromatography, process control, automatic control, predictive control	surfaces, molecular cohesion 1951 Feb. p. 54–58 coprid beetles, beetle, cattle, dung beetles 1974 Apr. p. 100–109
1969 June p. 112–120 feedback, water clock, thermostat, windmills, automatic control, flyball	coprolites, diet, human feces, human nutrition, prehistoric man
governor, origins of feedback control 1970 Oct. p. 110–118	1975 Jan. p. 100–109 [687]
arms race, cruise missiles, SALT, strategic weapons, tactical weapons,	coral, algae, coral rings, fossil reefs, paleontology, climatic change, dating
navigation systems 1977 Feb. p. 20–29 [691]	by coral rings 1966 Oct. p. 26–33 [871]
automatic test systems, automatic control, microelectronics, measuring	geochronometry, dating by coral growth rings 1963 May p. 78 coral reef wax, biological wax, copepod lipids, marine wax, metabolic
instruments 1977 Sept. p. 180–190 [381] control theory, mathematics, cybernetics, computer programming.	fuel, food chain 1975 Mar. p. 76–86 [1318]
feedback, frequency response, stability, dynamic programming.	coral reefs, climatic change, energy cycle, fossil reefs, marine ecosystems,
'policy' concept 1964 Sept. p. 186–200	reef evolution 1972 June p. 54-65 [901]
controlled eutectics, alloys, eutectics, crystal structure, metallurgy,	coral rings, algae, coral, fossil reefs, paleontology, climatic change, dating
whiskers, controlled-cooling magnets 1967 Feb. p. 86–92 controlled mutation, by synthetic gene 1957 Oct. p. 60	by coral rings 1966 Oct. p. 26–33 [871] core memory, see: computer memory
controlled mutation, by synthetic gene 1957 Oct. p. 60 conurbation, housing, urban planning, central city, suburbs, cities,	Coriolis effect, ocean circulation, atmospheric circulation, relativity of
metropolitan area, evolution of the metropolis 1965 Sept. p. 64-74	motion 1952 May p. 72-78 [839]
convection cells, Earth mantle, convection currents, plate tectonics,	Atlantic Ocean, Gulf Stream, ocean circulation, salinity, oxygen level.
driving force of continental drift, large-scale circulation	ocean temperature, 'anatomy' of the Atlantic 1955 Jan. p. 30-35 [810]
1976 Nov. p. 72-89 [921] convection currents, tectonic processes, mountain formation, Earth	atmosphere, wind, ocean circulation, climate 1969 Sept. p. 76–86
mantle, the 'blister hypothesis' 1949 June p. 16-21	ocean circulation, wind effect, currents, laboratory analogues
Earth heat, Earth mantle, Earth core, heat flow, radioactivity	1970 Jan. p. 114–121 [390]
1950 Dec. p. 54–57	bathtub vortex bathtub vortex clockwise in Southern hemisphere 1962 Nov. p. 74
geomagnetism, geophysics, electromagnetism, magnetohydrodynamics, Earth core, origin of terrestial magnetism 1958 May p. 44-48	com, genetics, teosinte, tripsacum, pod corn, popcorn, hybrid cells, New
plants, thermoregulation, solar radiation, thermal radiation,	World archeology, plant genetic experiment and archeological finds
transpiration, energy transfer, heat transfer in plant leaves	point to pool corn as wild ancester of maise 1950 July p. 20-24 [26]
1965 Dec. p. 76-84 [1029] continental drift, plate tectonics, sea-floor spreading, ocean ridges,	hybrid corn. agronomy, technology and promise of hybrid corn
Earth mantle, tensile-stress hypothesis 1969 Nov. p. 102–119	1951 Aug. p. 39-47 agricultural pest, corn borer, insect behavior, species specificity,
convection cells, Earth mantle, plate tectonics, driving force of	adaptation of parasite to host 1958 May p. 87-94
continental drift, large-scale circulation 1976 Nov. p. 72-89 [921]	New World archeology, agricultural revolution, Mexican agriculture,
in Earth's mantle 1949 Dec. p. 30 cooking, fire-making, human evolution, fire vegetation, Neolithic	urbanization, New World agricultural revolution
revolution, kiln, furnace, heat, introduction to single-topic issue on	1964 Nov. p. 29-37 [625] lysine, plant breeding, plant protein, agronomy, human nutrition,
heat 1954 Sept. p. 52-57	malnutrition, high-lysine corn 1971 Aug. p. 34-42 [1229]
cooling system, air conditioning, air vent, wind tower, domed roof,	gene-pool bank 1951 Sept. p. 60
architecture, passive cooling systems in Iranian architecture 1978 Feb. p. 144-154 [705]	U.S. No. 13 dwarf corn 1958 Oct. p. 54 crop yield, oriented planting 1959 May p. 76
cooling towers, heat exchange, industrial cooling, energy technology,	crop yield, oriented planting 1959 May p. 76 lysine, opaque-2 lysine-rich corn 1965 Aug. p. 44
microclimate 1971 May p. 70-78	reinstatement of teosinte 1973 Jan. p. 44
cooperation, competition, social psychology 1950 Apr. p. 54-56	see also: maize
cooperative enzymes, enzymes, protein synthesis, hemoglobin, myoglobin, control systems, feedback, allosteric enzymes, control of	com borer, agricultural pest, insect behavior, species specificity, corn. adaptation of parasite to host 1958 May p. 87-94
biochemical reactions 1965 Apr. p. 36-45 [1008]	adaptation of parasite to host 1958 May p. 87-94 corner reflector, Apollo project, laser reflection, moon, orbital motion,
coordination of movement, eye-head coordination, sensory feedback,	lunar-ranging experiment, Earth-Moon distance measurement
visual targeting 1974 Oct. p. 100-106 [1305] copeped lipids, biological wax, coral reef wax, marine wax, metabolic fuel,	1970 Mar. p. 38–49
food chain 1975 Mar. p. 76–86 [1318]	corona, chromosphere, eclipse phenomena, photosphere, solar corona, Sun
Copernican revolution, Bruno, science history, Galileo's heresy.	corona chemistry, catalysis, corona discharge, free radicals, ozone,
martyrdom of Giordano Bruno re-examined 1973 Apr. p. 86-94	polymerization, water purification, hydrocarbon cracking
English poetry, 'Space Rapture' 1977 June p. 120–129 [367] Copernicus, calendar, solar system, planetary motion, time, heliocentric	1965 June p. 90–98
theory, year, astronomy, astronomy, Copernicus, length of calendar	corona discharge, alternating current, electric power, high-voltage transmission, power transmission, hydroelectric power generation.
364 Dci n 25-02	economic advantages of high-voltage transmission
planetary motion models, Tycho Brahe, solar system, science history, Tycho's notes in de Revolutionibus 1973 Dec. p. 86-101	1964 May n. 20 47
as physician 1973 Oct p. 48	catalysis, tree radicals, ozone, polymerization, corona chemistry, water
coping behavior, psychosomatic illness, rats, stress	air pollution, electrocoating. Ily ash, electrostatics, photocopying
1972 June p. 104-113 [544]	xerography, electrostatic precipitation and seperation
	1972 Mar. p. 46-58

addiction, LSD, psychosis, psilocybin, mesca	mental health, drug	species dispersion, fossil record, evolution, plate	tectonics
indiction, 2015, phychosis, psinocyom, mesca	inne, effects of LSD 1964 Apr. p 29-37 [483	10	972 Nov n 56_66 19031
conservation, UN conference	1949 May p 2	. Conditional distribution of the conditional distribution of	formation, Indian-
conservation of vector current	1963 Ann n 0	3	te tectonics, sea floor
conservation law, Helmholtz resonators, matter co	inservation.	biosphere, marine biology, ocean evolution, Pang	973 May p 62-72 [908]
ophthalmoscope, science history, Hermann ve biography		19	974 Apr p 80–89 [912]
matter, energy, momentum, high-energy physics	1958 Mar. p 94-102	2 contracting-Earth theory, science history, Pangae	ea, plate tectonics,
particle physics	1963 Oct p 36-45	Wegener's hypothesis	1975 Feb p 88-97
high-energy physics, baryons, mesons, strong	' force.		1977 Mar p 92-104
'eightfold way', Regge trajectory, resonance's	particles', 'bootstrap'	mountain formation, carthquake zones, Gobi De formation, India-Eurasia collision, plate tector	seri, Himaiaya
hypothesis	964 Feb p 74-93 1296	spreading Tibetan plateau	1977 Apr p 30-41
upheld by court	1950 Jan p 30	radioactive dating and remanent magnetism	1963 June p 73
conservation of strangeness, high-energy physics s muon, sorting out the multiplicity of particles	trange particles, pions,	paleomagnetic evidence of its intermittance	1967 Dec p 50
l l	957 July p 72-88 [213]	fossil amphibian in Antarctica Australia-Antarctica land mass	1968 Apr p 43 1969 Aug p 50
constancy effect, visual perception, color vision, ne	cutral colors	see also plate tectonics	1303 Aug p 30
196	3 Jan p 107-116 [474]	continental evolution, Earth crust, volcanoes, island	arcs, sedimentation,
constrained-layer damping, noise control, vibration	i, viscoelastic material	origin of the continents 195.	5 Sept p 62-66 [816]
construction technology, radar domes, building cor	1969 Jan p 98-106		sedimentary rock,
buildings	1956 June p 131-138	Apallachian foldbelt 1973 continental shelf, ocean floor, submarine canyons	2 Mar p 30-38 [899] 1949 Apr p 40-43
building codes, building construction, housing		continental terrace, onlap process, offlap process,	geology
19	71 Mar p 16-25 [341]	1955	Mar p 82-86 [808]
wind bracing, skyscrapers, Eiffel Tower, cantiles		ocean floor, submarine canyons, turbidity currents	, submanne
frame construction, curtain wall heat reflection, from a roof paint	1974 Feb p 92-105 1954 June p 46	avalanches and topography of ocean floor	1956 Aug p 36-41
tapered columns stronger	1968 July p 55	bathymetry, sonar, gravimetry, ocean floor, sedime Geophyscial Observatory	1956 Dec p 83-94
plastic roof	1969 May p 56	plant migration, oceanography, New World archeo	
consumer-product research, consumer protection, e	nergy conservation,	migration, Bering land bridge, glaciation, Wiscon	nsın glacıatıon,
household appliances, product safety, product		animal-plant migration, Asia-North America	962 Jan p 112-123
consumer protection, consumer-product research, e	1977 Dec p 47–53	glaciation, ocean, shelf sediments, marine geology	ept p 106-122 [882]
household appliances, product safety, product		continental shelf exploitation, saturation diving, under	water shelters,
	1977 Dec p 47-53	decompression, diving, oceanographic exploration	n
contact binaries, stellar evolution, tidal effects, grav		1966 N	Mar p 24–33 [1036]
stars, stellar fission containerization, cargo handling, shipping, automat	1968 June p 34-40	continental terrace, continental shelf, onlap process, or geology 1955	Mar p 82-86 [808]
transport	1968 Oct p 80-88	continental uplift, glaciation, a theory of glaciation	1952 Aug p 57-59
marine technology, drilling platforms, ocean, sup-	ertankers,	ocean floor placiation sea level sea level variations	70.70
submersibles, technology and the ocean 1969	Sept p 198-217 [887]	continuous casting, steel production, metallurgical engi	1960 May p 70-79
content analysis, newspapers, military secrecy, Cong investigation, 'Condon case', content analysis of	ressional if newspaper coverage	advantages	1963 Dec p 74-88
of political attacks on E U Condon	1949 Feb p 16-21	continuous processing, automatic control, fluid dynami	ics, petroleum
dreams, 10,000 dreams	1951 May p 60-63	refinery control nanel automatic chemical plant	952 Sept p 82-96
television, allocation of time, a critical review by e	educators 1951 June p 15-17	contour perception, contrast perception Mach bands, n	1932 Sept p 02 70
context sensitivity, verbal communication, communi		ontical illusion, visual perception, Crail -O'Brien 6	ffect
formants, phonetics, markedness/unmarkednes	s dyad, morpnemes,	1972 Ju	ne p 90-101 [242]
cuntar invariant/variable dvad	1912 Sept p 12-80	optical illusion, visual perception 1976 A contraception, birth control, reproduction ovulation, ni	Apr p 48-52 [570]
continental drift, remanent magnetism, plate tectonic arcs, Wegener hypothesis re-stated with new evi	is, ocean 11001, island dence, age of 10cks	fertilization	954 Apr p 31-34
1963	Apr p 80-100 [808]	birth rate, birth control, family planning family size	US population
evolution, Infra-Cambrian Ice Age, glaciation, fos	sil record,	trends, acceptance of contraception 19 abortion, birth control, family planning, population of	959 Apr p 50-55
maleomagnetism	1904 Aug p 20-30	policy in U S	973 July p 17-23
glaciation, Gondwanaland, Laurasia, paleomagnet sea-floor spreading, supercontinents, plate tecto	nics, commentat	research objective	1953 Aug p 48
deft confirmed 1900	S Apr p 32-04 (0/4)	'morning after pill'	1966 June p 56 1968 Dec p 50
sea-floor spreading, magnetic reversals, crustal mo-	vement, 3 Dec p 60-70 [875]	Roman Catholics see also birth control	1900 Dec p 00
earthquakes plate tectonics 1900	Dec h gone (ass)	contractile proteins, flagella, keratin, myosin epidermis "	k m e f ' group
speciation, Gondwa.	ontinent	motility in bacteria 19 contracting-Earth theory, continental drift science history	951 Jan p 20–24
1909	Mai p 54-64 [877]		75 Feb p 88-97
- I - I	Sept p 66-75 [888]	contraction, fixed point theorems, mathematics, topology	surface
descending ocean ridges, of	onvection currents,	deformation 1966	Jan p 105-110
Earth mantle, tensile-stress hypothesis	969 Nov p 102-119	contrails, aerodynamics, aircraft-wake vortexes, flight safe wake turbulence 1974	4 Mar p 76-83
A C Amunola Dad Sea Rift Valley, guyon, Gun of	Aden, sea-1100r	contract percention, contour perception. Mach bands, neur	ronal response
spreading sea-moor spreading opens not	Feb p 32-40 [891]	optical illusion, visual perception, Craik-O'Brien effect	20
t the control can floor spread	ding Earth crust,	spatial frequency, visual perception, visual thresholds	p 90-101 [543]
Thassic period, Pangaea, computer model	Oct n 30-41 [892]	1974 Nov p	106-114 [1308]
breakup of Pangaea traced	on zones, mountain	contt	positive is system
formation, plate tectonics, sea-floor spreading, of	erview of the new	economic system automatic control, feedback concept	
geology 1972	May p 56-68 [900]	1952 :	Sept p 48-55

evolution, thermonuclear energy 1971 Sept p 50-59 [662]	Coulomb, friction, Leonardo, technology history, sliding surfaces,
cosmology, solar system, Sun, dust cloud hypothesis, gravity, light	molecular cohesion, 'coppering' 1951 Feb p 54-58
pressure, gravitational collapse, thermonuclear reaction, genesis of	Coulomb force, electromagnetism, molecular physics, intermolecular
	force, measurement of intermolecular force between macroscopic
	bodies 1960 July p 47–53
red shift, galactic recession, element abundance, 'synthetic' elements,	Coulomb's law, electromagnetic radiation, photon, quantum mechanics,
	Comomo's law, electromagnetic radiation, photon, quantum mechanics,
Palomar Observatory, Hale telescope, Schmidt telescope, galactic	mass of photon 1976 May p 86–96
survey, 200-inch and 48-inch Palomar telescopes	counter-current exchange, kidney, urine, nephron, glomerulus, osmosis,
1948 Aug p 12–17	anatomy and physiology of the kidney 1953 Jan p 40–48 [37]
Palomar Observatory, red shift, stellar populations interstellar matter,	rete mirabile, heat conservation, physiology, swim bladder, kidney, gill,
galactic evolution, Hale telescope, first yield from 200 inch telescope	physics of a physiological invention 1957 Apr p 96
1952 Feb p 43–51	counterfeiting, coins, numismatics, Roman Britain 1974 Dec p 120-130
universe expansion, Olber's paradox, world lines, curvature of space,	counterforce strategy, military deterrence, arms control, arms race,
red shift, galactic evolution, evolutionary universe, element	atomic weapons, USA-USSR negotiating postures
formation, genesis 1954 Mar p 54-63	1962 Apr p 45–53
politics, Laplace, physics, life and work of Pierre Simon de Laplace	fallout shelters, civil defense, arms race, social psychology, social
1954 June p 76–81	impact of fallout shelters 1962 May p 46-51 [637]
astronomy, philosophy of science, galactic clusters, universe, planetary	radar blackout, atomic warfare, arms race, ABM, ICBM, US ABM
motion, solar system, introduction to single-topic issue on the	system capabilities and limitations 1968 Mar p 21-31
universe 1956 Sept p 72–81	ABM, MIRV, SALT, deterrence, ICBM, arms race, dynamics,
universe evolution, 'big bang' theory, universe, space curvature,	instability of arms race 1969 Apr p 15-25 [642]
according to Gamow 1956 Sept p 136–154	ABM, arms race, ICBM, MIRV, SLBM, mutual assured destruction,
energy transformation, universe, steady-state universe, according to	strategic balance, national security 1969 Aug p 17–29 [330]
Hoyle 1956 Sept p 157–166	atomic weapons, arms race, SALT, MIRV, mutual assured destruction,
red shift, universe expansion, universe, spectroscopy, galaxies	MIRV, as key to SALT negotiations 1970 Jan p 19–29 [654]
red sint, universe expansion, universe, spectroscopy, garaxies	ABM, ICBM, MIRV, atomic armaments, strategic weapons, mutual
recession velocity, galactic clusters, observational cosmology	
1956 Sept p 170–182 [240]	
galactic clusters, probability, universe, gravitation, Monte Carlo	mutual assured destruction, military expenditures, SALT, arms race,
method, distribution of galaxies as test of cosmologies	MIRV, MARV 1974 May p 20–31
1956 Sept p 187–200	atomic weapons, cruise missiles, MIRV, arms race, missile accuracy,
universe evolution, science history, philosophy of science, a skeptical	strategic weapons, CEP, accuracy as multiplier of force
view of cosmology 1956 Sept p 224–236	1975 July p 14–23
antimatter, high-energy physics, antiproton, antineutron, Bevatron,	counters, see Geiger counter, scintillation counter
'universon', 'cosmon', 'anticosmon' 1958 Apr p 34–39	courtship display, sexual behavior, animal behavior 1950 July p 52-55
antimatter, Leidenfrost phenomenon, Zeeman effect, Klein theory,	stickleback, animal behavior, sexual behavior, displacement activity,
high-energy physics, high-energy physics and cosmology	ethology 1952 Dec p 22–26 [414]
1967 Apr p 106–114 [311]	gulls, animal behavior, releaser stimulus, displacement activity,
universe expansion, cosmic background radiation, 'big bang' theory,	ethology 1954 Nov p 42–46
low-energy radiowaves, isotropy, primeval fireball, helium	bowerbirds, sexual behavior, animal behavior, arena behavior,
abundance, 'big bang' theory and cosmic background radiation	Australian bowerbird, natural history 1956 June p 48–52
1967 June p 28–37	arena behavior, bowerbirds sexual behavior animal behavior, releaser
quasars, red shift, universe expansion 1971 May p 54-69	stimulus, ethology, natural history 1963 Aug p 38–46 [1098]
Apollo samples, carbon chemistry, moon, solar wind	animal behavior, turkeys, pecking order, sexual behavior, lek behavior,
1972 Oct p 80–90	Welder Wildlife Refuge 1971 June p 112–118
'big bang' theory, deuterium-hydrogen ratio, deuterium synthesis,	insect behavior, bee dances, pheromones, sex attractants
heavy hydrogen, interstellar matter 1974 May p 108-118	1972 Sept p 52-60 [1280]
'big bang' theory, 'closed' universe, 'open' universe, universe expansion,	courtship song, fruit fly, sexual behavior, releaser stimulus, insect
deuterium abundance, age of elements, average density	behavior, species specificity 1970 July p 84-92
1976 Mar p 62–79	covalent bonds, ionic bonds, hydrogen bonds, Van der Waals force, long-
heavier radioactive elements 1956 June p 60	range forces, chemical bond, antigen-antibody reaction, proposed
biggest red shift 1956 Oct p 66	intermolecular long-range force 1948 Oct p 14-17
Cepheid variable, intergalactic yardstick lengthens 1958 Sept p 86	solid state physics crystal structure, X-ray diffraction, ionic bonds
universe expansion, electrostatic repulsion explanation of expansion	metallic bonds, molecular bonds, energy levels the nature of solids
1959 Oct p 84	1952 Dec p 39-49 [249]
steady-state universe vs 'big bang', NGC 188 1960 Mar p 85	aluminates, materials technology, ceramics crystal structure, silicates,
cosmological uncertainty 1960 Sept p 102	heat resistance, ionic bonds, nature of ceramics
Einstein-De Sitter universe 1961 Feb p 74	1967 Sept p 112–124
heavy-element formation, plutonium 244 1971 June p 54	materials technology, polymers natural polymers, plastics, cross-
most distant object, quasar OH471 1973 June p 38	linking 1967 Sept p 148–156
a 12th century European school 1978 Jan p 68	cowpox, medical history, smallpox immunization, variolation
cosmotron, particle accelerator, Bevatron, high-energy physics,	vaccination, vaccination before Jenner 1976 Jan p 112-117
technology of high-energy physics moves into the Giga (billion) volt	Coxsackie virus, enteroviruses, poliomyelitis virus, tissue culture, echo
range 1951 Feb p 20-25	viruses, epidemiology, benign and infectious intestinal viruses
up to 2 2 Bey 1952 July p 34	1959 Feb p 88–97
cosmotron outage, cooling system leak 1955 Jan p 44	CP. charge parity
cost assessment, nuclear power, capital cost, energy economics,	CD
competitive with fossil fuels 1951 Jan p 32–38	CP: invariance, superweak-force hypothesis 1967 Mar p 50 CPT: charge parity time
input output analysis, interchangeability of materials price trends,	CPT conservation, time reversal, symmetry, parity, charge conservation,
materials technology, metals plastics competition among materials	lambda decay, proton spin experiments in time reversal
1967 Sept p 254–266	
cost of hing, household appliances 1974 Sept. p. 74	1969 Oct p 88-101 CPT mirror, parity, symmetry, time reversal, mirror images
'cost-push' inflation, 'demand pull', economic analysis inflation, input-	1065 Dag = 20 26 (201)
output analysis 1971 Nov p 15–21	CPT symmetry, antigravity, time reversal antimatter, probability,
cotton, mildew-proofed 1953 Oct. p. 58	philosophy of science 1067 to 200 ton
cotton picker, mechanical harvesting, agricultural technology, tomato	Cash Mahata
harvester hay cuber, cherry picker grain combine	radio star, supernovae, stellar evolution 1949 Dec p 18–21
1067 Aug = 60 60	
1967 Aug p 50-59	stars counted some speculation on their nature 1953 Jan p 17-21

-

Earth's weather and solar wind 1957 Apr p. 138–148 184	cosmic dust grains, interstellar matter, ultraviolet radiation, hydrogen
Earth's weather and solar wind 1957 Apr p 138–148 [84 coronary bypass, arteriography, heart surgery, atheroselerosis, coronary	1055 Nov. n. 72 00
occlusion 1968 Oct n 36	cosmic masers, maser, hydroxyl maser, water maser, maser star,
coronary care unit, cardiac arrhythmia, intensive care, fibrillation	imitate and
coronary occlusion, electrocardiography, nerve conduction, heart	Cosmic radiation, elementary particles, son teams accordance design
intarct 1968 July p. 19-2	high-energy physics 1949 Mar p 28–39
coronary disease, carcinogenesis, cigarette smoking, tobacco, human	massive nuclei 1051 May n 26 20
physiology, lung cancer, effects of smoking 1962 July p 39-5	stellar magnetic fields, radio emissions, megnetohydrodynamics
arteries, atheroselerosis, medicine, thrombus, monoclonal hypothesis, plaque formation 1977 Feb p. 74, 85 1135	electrical induction, electricity in space 1952 May p 26-29
277 100 p 74-03 1133	
etiology of heart disease in U S 1957 Dec p 6 soft water 1969 June p 5	0
survival kit 1972 Aug p 4	
coronary occlusion, heart attack, etiology and course of a principal cause	, , , , , , , , , , , , , , , , , , , ,
of death 1950 June p. 44-4	1954 Apr p 38-40 meteorites, helium content, origin of meteorites 1954 Nov p 36-41
cardiac arrhythmia, heart, muscle contraction, cardiac pacemaker.	photographic emulsion, particle tracks, neutron, proton, electron,
operation of cardiac pump 1957 May p. 74-87 (62	characteristic 'signatures' of particles 1956 May p 40-47
atherosclerosis, cardiovascular disease, human nutrition, arteries.	artificial satellite, solar particles, telemetry, Van Allen belts,
epidemiology, cholesterol, diet, lipids, plaque, artery wall	geomagnetism, radiation belts, space exploration, mapping of
1966 Aug p 48-50	The state of the s
cardiac arrhythmia, intensive care, coronary care unit. fibrillation,	galactic magnetism, supernovae, cosmic ray showers, evidence for
electrocardiography, nerve conduction, heart infarct	particles of 10 ¹⁸ ev energy 1959 Nov p 134-146
1968 July p 19-27 arteriography, heart surgery, atherosclerosis, coronary bypass	solar particles, geomagnetism, galactic magnetism, galactic accelerator theory 1960 June p 64-71
1968 Oct p 36-43	
corpus callosum, cerebral cortex, mammalian brain, brain hemispheres,	proposed origin of cosmic rays 1964 Nov p 38-47
split-brain experiments, monkey, cat, human post-operative subject	interplanetary space, Mars, Mariner 4, magnetosphere,
1964 Jan p 42-52 (174)	micrometeorites, trapped radiation, atmosphere, solar wind, space
brain hemispheres, cerebral dominance, perception, split-brain	exploration 1966 May p 62–72
experiments, intelligence, language, localization of brain function	radio galaxies, quasars, galactic halo, radio astronomy, radio source,
1967 Aug p 24-29 [508]	extragalactic radio source as origin of cosmic rays 1966 Aug p 32–38
corpuscular streams, matter, wave-particle duality, energy levels, electromagnetic force, nuclear forces, gravitation, field theory,	cosmic ray showers, supernovae, galactic halo, synchrotron radiation
fundamental research, quantum jumps, what is matter?	particle acceleration, abundance, energies, sources of cosmic rays
1953 Sept p 52-57 [241]	1969 Feb p 50-63
aurora, magnetic storms, sunspots, cone of avoidance, solar wind, solar	nuclear tracks fission-track dating etching ionizing radiation,
rotation, cycles in 'solar wind' 1955 Feb p 40-45	applications of charged-particle tracks in solids 1969 June p 30-39
Sun, radio emissions, sunspots, magnetic storms 1955 June p 40-44	solar radiation, neutrino, solar neutrino detector, thermonuclear
Earth, aurora, airglow, solar spicules, nightglow, aurora and airglow	reaction, neutrino detection experiment and predictions 1969 July p 28–37
1955 Sept p 140–150 correlation analysis, public opinion, voters' attitudes, voting behavior,	nulear radio emissions superdense matter supernovae
ethnic groups, income, social status, family, 'votes in the making'	puisar, radio chassions, superdense matter, supernovae
1950 Nov p 11–13	cormogenic behum meteorite radioactivity solar system evolution
correlation theory, Galton, eugenics, dermatoglyphics, life and work of	smallation of meteorites 1973 July p 04-73
Francis Galton, regression to mean 1954 Jan p 72-76	interplanetary fields, interplanetary particles, magnetosphere, solar
corrosion, rust, technetium, oxidation, studies in corrosion	flares, solar wind, aurora, Van Allen belts, solar system 1975 Sept p 160-173
1956 May p 35–39	blad bala samma ray attronomy maytron stars mylear satellite
materials technology, wear, adhesive wear, abrasive wear, fatigue wear, surfaces in sliding contact 1962 Feb p 127-136	notronomy Cyanus X-1 1976 UCL D 00-771
corrosion tunnel, stress-corrosion failure, crystal structure, dislocations,	solar system origin argued 1949 Aug P 24
metalliding 1966 Feb p 72–81	indium 49 recorded 1951 Dec p 30
Corrugaborn, acquistic toys Hummer 1974 June p 56	U.S. Explorer radiation studies 1958 June p 44 origin of high-energy rays 1960 Nov. p 91
cortisone. ACTH, inflammation, degenerative diseases, hormone, stress,	1001 Apr D 75
experience with and appraisal of two hormonal drugs 1950 Mar p 30-37 [14]	detection of primary electrons 1961 Apr P 70 origin in supernovas 1964 Feb p 71
	cosmic radiation neutrinos, neutrino, solar neutrinos, intermediate vector
steroid hormones, vitamin D, sex hormones, cholesterol 1955 Jan p 52-60 [8]	hason countillation counter boson, detection of natural neutrino
actinomyosin, ecdysone, insulin, estrogens, gene activation, RNA	1986 Feb p 40-10
synthesis, aldosterone, growth hormone, AC1H, thyroxin,	cosmic ray showers, cosmic radiation, galactic magnetism, supernovae, evidence for particles of 10 ¹⁸ ev energy 1959 No. p 134-146
mechanism of hormone action 1965 June p 36-43 [1013]	cosmic radiation, supernovae, galactic halo, synchrotron radiation,
ACTH, conference on potent new drugs 1949 Dec p 28	particle acceleration shundance energies sources of COSMIC III)
cheaper synthesis	1969 Peb p 30-03
from progesteron corundum, crystal structure, cubic boron nitride, diamond, hardness,	'cosmic yardstick', Cepheid variable, galactic evolution, universe
	evolution [1959 July p 48-55]
to demound reduction cosmology, universe expansion, Dig valig	cosmogenic helium, cosmic radiation, meteorite radioactivity, solar system evolution, spallation of meteorites 1973 July p 64-73
Al low energy radiowaves isotropy, primeval lifeban, neutil	as a mala significant control arm argument for a plutton any hypothesis
abundance, 'big bang' theory and cosmic background radiation 1967 June p 28-37	1959 July P od
evolutionary universe, universe expansion, radio galaxies, 'big bang'	radio telescope promises evidence
11 (9/4 Aug U 20-33	Xenon 129 supports 'steady state' theory 1960 Apr p 85
'hig hang' theory, ether drift, Hubble constant, amsotropy in 3-degree	cosmological distance, spectroscopy, quasars, recession velocity, red shift
Kelvin radiation	whether quasars are intra- or extra-galactic 1966 Dec p 40-52 [305]
Earth rotation, 'new ether drift' Earth's relative movement 1967 May p 54 1977 Nov p 70	cosmological 'hangups', celestial energy, energy cycle, power, radiation
cosmic distribution, elements element abundance 1950 Oct p 14-17	energy, entropy per unit energy, gravitational energy, stellar

evolution, thermonuclear energy 1971 Sept p 50-59 [662]	Coulomb, friction, Leonardo, technology history, sliding surfaces,
cosmology, solar system, Sun, dust cloud hypothesis, gravity, light	molecular cohesion, 'coppering' 1951 Feb p 54-58
pressure, gravitational collapse, thermonuclear reaction, genesis of	Coulomb force, electromagnetism, molecular physics, intermolecular
solar system 1948 May p 35–45	force, measurement of intermolecular force between macroscopic
red shift, galactic recession, element abundance, 'synthetic' elements,	bodies 1960 July p 47–53
universe expansion 1948 July p 20–25	Coulomb's law, electromagnetic radiation, photon, quantum mechanics,
Palomar Observatory, Hale telescope, Schmidt telescope, galactic	mass of photon 1976 May p 86–96
survey, 200-inch and 48-inch Palomar telescopes	counter-current exchange, kidney, urine, nephron, glomerulus, osmosis, anatomy and physiology of the kidney 1953 Jan p 40-48 [37]
1948 Aug p 12–17	rete mirabile, heat conservation, physiology, swim bladder, kidney, gill,
Palomar Observatory, red shift, stellar populations, interstellar matter,	physics of a physiological invention 1957 Apr p 96
galactic evolution, Hale telescope, first yield from 200 inch telescope 1952 Feb p 43-51	counterfeiting, coins, numismatics, Roman Britain 1974 Dec p 120–130
universe expansion, Olber's paradox, world lines, curvature of space,	counterforce strategy, military deterrence, arms control, arms race,
red shift, galactic evolution, evolutionary universe, element	atomic weapons, USA-USSR negotiating postures
formation, genesis 1954 Mar p 54–63	1962 Apr p 45–53
politics, Laplace, physics, life and work of Pierre Simon de Laplace	fallout shelters, civil defense, arms race, social psychology, social
1954 June p 76–81	impact of fallout shelters 1962 May p 46-51 [637]
astronomy, philosophy of science, galactic clusters, universe, planetary	radar blackout, atomic warfare, arms race, ABM, ICBM, US ABM
motion, solar system, introduction to single-topic issue on the	system capabilities and limitations 1968 Mar p 21–31
universe 1956 Sept p 72–81	ABM, MIRV, SALT, deterrence, ICBM, arms race, dynamics,
universe evolution, 'big bang' theory, universe, space curvature,	instability of arms race 1969 Apr p 15–25 [642] ABM, arms race, ICBM, MIRV, SLBM, mutual assured destruction,
according to Gamow 1956 Sept p 136–154	strategic balance, national security 1969 Aug p 17–29 [330]
energy transformation, universe, steady-state universe, according to Hoyle. 1956 Sept. p. 157–166	atomic weapons, arms race, SALT, MIRV, mutual assured destruction,
Hoyle 1956 Sept p 15/-166 red shift, universe expansion, universe, spectroscopy, galaxies,	MIRV, as key to SALT negotiations 1970 Jan p 19–29 [654]
recession velocity, galactic clusters, observational cosmology	ABM, ICBM, MIRV, atomic armaments, strategic weapons, mutual
1956 Sept p 170–182 [240]	assured destruction, arms race 1973 Nov p 18-27
galactic clusters, probability, universe, gravitation, Monte Carlo	mutual assured destruction, military expenditures, SALT, arms race,
method, distribution of galaxies as test of cosmologies	MIRV, MARV 1974 May p 20–31
1956 Sept p 187–200	atomic weapons, cruise missiles, MIRV, arms race, missile accuracy,
universe evolution, science history, philosophy of science, a skeptical	strategic weapons, CEP, accuracy as multiplier of force
view of cosmology 1956 Sept p 224–236	1975 July p 14–23
antimatter, high-energy physics, antiproton, antineutron, Bevatron,	counters, see Geiger counter, scintillation counter
'universon', 'cosmon', 'anticosmon' 1958 Apr p 34-39 antimatter, Leidenfrost phenomenon, Zeeman effect, Klein theory,	courtship display, sexual behavior, animal behavior 1950 July p 52–55 stickleback, animal behavior, sexual behavior, displacement activity,
high-energy physics, high-energy physics and cosmology	ethology 1952 Dec p 22–26 [414]
1967 Apr p 106–114 [311]	gulls, animal behavior, releaser stimulus, displacement activity,
universe expansion, cosmic background radiation, 'big bang' theory,	ethology 1954 Nov p 42–46
low-energy radiowaves, isotropy, primeval fireball, helium	bowerbirds, sexual behavior, animal behavior, arena behavior,
abundance, 'big bang' theory and cosmic background radiation	Australian bowerbird, natural history 1956 June p 48–52
1967 June p 28–37	arena behavior, bowerbirds, sexual behavior, animal behavior, releaser
quasars, red shift, universe expansion 1971 May p 54–69	stimulus, ethology, natural history 1963 Aug p 38–46 [1098]
Apollo samples, carbon chemistry, moon, solar wind	anımal behavior, turkeys, pecking order, sexual behavior, lek behavior, Welder Wildlife Refuge 1971 June p 112–118
1972 Oct p 80–90 'big bang' theory, deuterium-hydrogen ratio, deuterium synthesis,	Welder Wildlife Refuge 1971 June p 112–118 insect behavior, bee dances, pheromones, sex attractants
heavy hydrogen, interstellar matter 1974 May p 108–118	1972 Sept p 52–60 [1280]
'big bang' theory, 'closed' universe, 'open' universe, universe expansion,	courtship song, fruit fly, sexual behavior, releaser stimulus, insect
deuterium abundance, age of elements, average density	behavior, species specificity 1970 July p 84–92
1976 Mar p 62–79	covalent bonds, ionic bonds, hydrogen bonds, Van der Waals force, long-
heavier radioactive elements 1956 June p 60	range forces, chemical bond, antigen-antibody reaction, proposed
biggest red shift 1956 Oct p 66	intermolecular long-range force 1948 Oct p 14-17
Cepheid variable, intergalactic yardstick lengthens 1958 Sept p 86 universe expansion, electrostatic repulsion explanation of expansion	solid state physics, crystal structure, X-ray diffraction, ionic bonds, metallic bonds, molecular bonds, energy levels, the nature of solids
1959 Oct p 84	1952 Dec p 39–49 [249]
steady-state universe vs 'big bang', NGC 188 1960 Mar p 85	aluminates, materials technology, ceramics, crystal structure silicates,
cosmological uncertainty 1960 Sept p 102	heat resistance, ionic bonds, nature of ceramics
Einstein-De Sitter universe 1961 Feb p 74	1967 Sept. p. 112–124
heavy-element formation, plutonium 244 1971 June p 54	materials technology, polymers, natural polymers, plastics, cross-
most distant object, quasar OH471 1973 June p 38	
	linking 1967 Sept. p. 148–156
a 12th century European school 1978 Jan p 68	linking 1967 Sept p 148–156 cowpox, medical history, smallpox immunization, variolation,
cosmotron, particle accelerator, Bevatron, high-energy physics,	linking 1967 Sept p 148–156 cowpox, medical history, smallpox immunization, variolation, vaccination, 'vaccination' before Jenner 1976 Jan p 112–117
cosmotron, particle accelerator, Bevatron, high-energy physics, technology of high-energy physics moves into the Giga (billion) volt	linking 1967 Sept p 148–156 cowpox, medical history, smallpox immunization, variolation, vaccination, 'vaccination' before Jenner 1976 Jan p 112–117 Covsackie virus, enteroviruses, poliomyelitis virus, tissue culture, echo
cosmotron, particle accelerator, Bevatron, high-energy physics, technology of high-energy physics moves into the Giga (billion) volt range 1951 Feb p 20-25	linking 1967 Sept p 148–156 cowpox, medical history, smallpox immunization, variolation, vaccination, 'vaccination' before Jenner 1976 Jan p 112–117 Covackie virus, enteroviruses, poliomyelitis virus, tissue culture, echo viruses, epidemiology, benign and infectious intestinal viruses
cosmotron, particle accelerator, Bevatron, high-energy physics, technology of high-energy physics moves into the Giga (billion) volt range 1951 Feb p 20–25 up to 2 2 Bev 1952 July p 34 cosmotron outage, cooling system leak 1955 Jan p 44	linking 1967 Sept p 148–156 cowpox, medical history, smallpox immunization, variolation, vaccination, 'vaccination' before Jenner 1976 Jan p 112–117 Covsackie virus, enteroviruses, poliomyelitis virus, tissue culture, echo viruses, epidemiology, benign and infectious intestinal viruses CP: charge parity
cosmotron, particle accelerator, Bevatron, high-energy physics, technology of high-energy physics moves into the Giga (billion) volt range 1951 Feb p 20–25 up to 2 2 Bev 1952 July p 34 cosmotron outage, cooling system leak 1955 Jan p 44 cost assessment, nuclear power, capital cost, energy economics,	linking 1967 Sept p 148–156 cowpox, medical history, smallpox immunization, variolation, vaccination, 'vaccination' before Jenner 1976 Jan p 112–117 Covsackie virus, enteroviruses, poliomyelitis virus, tissue culture, echo viruses, epidemiology, benign and infectious intestinal viruses 1959 Feb p 88–97 CP: charge parity CP invariance, superweak-force hypothesis 1967 Mar p 50
cosmotron, particle accelerator, Bevatron, high-energy physics, technology of high-energy physics moves into the Giga (billion) volt range 1951 Feb p 20-25 up to 2 2 Bev 1952 July p 34 cosmotron outage, cooling system leak 1955 Jan p 44 cost assessment, nuclear power, capital cost, energy economics, competitive with fossil fuels 1951 Jan p 32-38	linking 1967 Sept p 148–156 cowpox, medical history, smallpox immunization, variolation, vaccination, 'vaccination' before Jenner 1976 Jan p 112–117 Coxsackie virus, enteroviruses, poliomyelitis virus, tissue culture, echo viruses, epidemiology, benign and infectious intestinal viruses CP: charge parity CP invariance, superweak-force hypothesis 1967 Mar p 50 CPT: charge parity time
cosmotron, particle accelerator, Bevatron, high-energy physics, technology of high-energy physics moves into the Giga (billion) volt range 1951 Feb p 20-25 up to 2 2 Bev 1952 July p 34 cosmotron outage, cooling system leak 1955 Jan p 44 cost assessment, nuclear power, capital cost, energy economics, competitive with fossil fuels 1951 Jan p 32-38 input-output analysis, interchangeability of materials, price trends.	linking 1967 Sept p 148–156 cowpox, medical history, smallpox immunization, variolation, vaccination, 'vaccination' before Jenner 1976 Jan p 112–117 Covsackie virus, enteroviruses, poliomyelitis virus, tissue culture, echo viruses, epidemiology, benign and infectious intestinal viruses CP: charge parity CP invariance, superweak-force hypothesis 1967 Mar p 50 CPT: charge parity time CPT conservation, time reversal, symmetry, parity charge conservation
cosmotron, particle accelerator, Bevatron, high-energy physics, technology of high-energy physics moves into the Giga (billion) volt range 1951 Feb p 20-25 up to 2 2 Bev 1952 July p 34 cosmotron outage, cooling system leak 1955 Jan p 44 cost assessment, nuclear power, capital cost, energy economics, competitive with fossil fuels 1951 Jan p 32-38 input-output analysis, interchangeability of materials, price trends, materials technology, metals, plastics, competition among materials	linking 1967 Sept p 148–156 cowpox, medical history, smallpox immunization, variolation, vaccination, 'vaccination' before Jenner 1976 Jan p 112–117 Covsackie virus, enteroviruses, poliomyelitis virus, tissue culture, echo viruses, epidemiology, benign and infectious intestinal viruses 1959 Feb p 88–97 CP: charge parity CP invariance, superweak-force hypothesis 1967 Mar p 50 CPT: charge parity time CPT conservation, time reversal, symmetry, parity, charge conservation, lambda decay, proton spin experiments in time reversal
cosmotron, particle accelerator, Bevatron, high-energy physics, technology of high-energy physics moves into the Giga (billion) volt range 1951 Feb p 20–25 up to 2 2 Bev 1952 July p 34 cosmotron outage, cooling system leak 1955 Jan p 44 cost assessment, nuclear power, capital cost, energy economics, competitive with fossil fuels 1951 Jan p 32–38 input-output analysis, interchangeability of materials, price trends, materials technology, metals, plastics, competition among materials 1967 Sept p 254–266 cost of living, household appliances	linking 1967 Sept p 148–156 cowpox, medical history, smallpox immunization, variolation, vaccination, 'vaccination' before Jenner 1976 Jan p 112–117 Covsackie virus, enteroviruses, poliomyelitis virus, tissue culture, echo viruses, epidemiology, benign and infectious intestinal viruses 1959 Feb p 88–97 CP: charge parity CP invariance, superweak-force hypothesis 1967 Mar p 50 CPT: charge parity time CPT conservation, time reversal, symmetry, parity, charge conservation, lambda decay, proton spin experiments in time reversal
cosmotron, particle accelerator, Bevatron, high-energy physics, technology of high-energy physics moves into the Giga (billion) volt range 1951 Feb p 20-25 up to 2 2 Bev 1952 July p 34 cosmotron outage, cooling system leak 1955 Jan p 44 cost assessment, nuclear power, capital cost, energy economics, competitive with fossil fuels 1951 Jan p 32-38 input-output analysis, interchangeability of materials, price trends, materials technology, metals, plastics, competition among materials 1967 Sept p 254-266 cost of living, household appliances 1974 Sept p 74 'cost-push' inflation, 'demand-pull', economic analysis, inflation, input-	linking 1967 Sept p 148–156 cowpox, medical history, smallpox immunization, variolation, vaccination, 'vaccination' before Jenner 1976 Jan p 112–117 Coxsackie virus, enteroviruses, poliomyelitis virus, tissue culture, echo viruses, epidemiology, benign and infectious intestinal viruses 1959 Feb p 88–97 CP: charge parity CP invariance, superweak-force hypothesis 1967 Mar p 50 CPT: charge parity time CPT conservation, time reversal, symmetry, parity, charge conservation, lambda decay, proton spin experiments in time reversal 1969 Oct p 88–101 CPT mirror, parity, symmetry, time reversal, mirror images
cosmotron, particle accelerator, Bevatron, high-energy physics, technology of high-energy physics moves into the Giga (billion) volt range 1951 Feb p 20–25 up to 2 2 Bev 1952 July p 34 cosmotron outage, cooling system leak 1955 Jan p 44 cost assessment, nuclear power, capital cost, energy economics, competitive with fossil fuels 1951 Jan p 32–38 input-output analysis, interchangeability of materials, price trends, materials technology, metals, plastics, competition among materials cost of living, household appliances 1976 Sept p 254–266 cost of living, household appliances 1974 Sept p 74 cost-push inflation, 'demand-pull', economic analysis, inflation, input-output analysis 1971 Nov p 15–21	linking 1967 Sept p 148–156 cowpox, medical history, smallpox immunization, variolation, vaccination, 'vaccination' before Jenner 1976 Jan p 112–117 Cosackie virus, enteroviruses, poliomyelitis virus, tissue culture, echo viruses, epidemiology, benign and infectious intestinal viruses 1959 Feb p 88–97 CP: charge parity CP invariance, superweak-force hypothesis 1967 Mar p 50 CPT: charge parity time CPT conservation, time reversal, symmetry, parity, charge conservation, lambda decay, proton spin experiments in time reversal 1969 Oct p 88–101 CPT mirror, parity, symmetry, time reversal, mirror images 1965 Dec p 28–36 [301]
cosmotron, particle accelerator, Bevatron, high-energy physics, technology of high-energy physics moves into the Giga (billion) volt range 1951 Feb p 20–25 up to 2 2 Bev 1952 July p 34 cosmotron outage, cooling system leak 1955 Jan p 44 cost assessment, nuclear power, capital cost, energy economics, competitive with fossil fuels 1951 Jan p 32–38 input-output analysis, interchangeability of materials, price trends, materials technology, metals, plastics, competition among materials 1967 Sept p 254–266 cost of living, household appliances 1974 Sept p 74 'cost-push' inflation, 'demand-pull', economic analysis, inflation, inputout analysis 1971 Nov p 15–21 cotton, mildew-proofed	linking 1967 Sept p 148–156 cowpox, medical history, smallpox immunization, variolation, vaccination, 'vaccination' before Jenner 1976 Jan p 112–117 Cosackie virus, enteroviruses, poliomyelitis virus, tissue culture, echo viruses, epidemiology, benign and infectious intestinal viruses 1959 Feb p 88–97 CP: charge parity CP invariance, superweak-force hypothesis 1967 Mar p 50 CPT: charge parity time CPT conservation, time reversal, symmetry, parity, charge conservation, lambda decay, proton spin experiments in time reversal 1969 Oct p 88–101 CPT mirror, parity, symmetry, time reversal, mirror images 1965 Dec p 28–36 [301] CPT symmetry, antigravity, time reversal, antimatter, probability, philosophy of science
cosmotron, particle accelerator, Bevatron, high-energy physics, technology of high-energy physics moves into the Giga (billion) volt range 1951 Feb p 20-25 up to 2 2 Bev 1952 July p 34 cosmotron outage, cooling system leak 1955 Jan p 44 cost assessment, nuclear power, capital cost, energy economics, competitive with fossil fuels 1951 Jan p 32-38 input-output analysis, interchangeability of materials, price trends, materials technology, metals, plastics, competition among materials 1967 Sept p 254-266 cost of living, household appliances 1976 Sept p 74 'cost-push' inflation, 'demand-pull', economic analysis, inflation, input-output analysis 1971 Nov p 15-21 cotton, mildew-proofed 1953 Oct p 58 cotton picker, mechanical harvesting agricultural technology tomato	linking 1967 Sept p 148–156 cowpox, medical history, smallpox immunization, variolation, vaccination, 'vaccination' before Jenner 1976 Jan p 112–117 Covsackie virus, enteroviruses, poliomyelitis virus, tissue culture, echo viruses, epidemiology, benign and infectious intestinal viruses 1959 Feb p 88–97 CP: charge parity CP invariance, superweak-force hypothesis 1967 Mar p 50 CPT: charge parity time CPT conservation, time reversal, symmetry, parity, charge conservation, lambda decay, proton spin experiments in time reversal 1969 Oct p 88–101 CPT mirror, parity, symmetry, time reversal, mirror images CPT symmetry, antigravity, time reversal, antimatter, probability, philosophy of science 1965 Dec p 28–36 [301] Crab Nebula, supernovae, stellar evolution
cosmotron, particle accelerator, Bevatron, high-energy physics, technology of high-energy physics moves into the Giga (billion) volt range 1951 Feb p 20–25 up to 2 2 Bev 1952 July p 34 cosmotron outage, cooling system leak 1955 Jan p 44 cost assessment, nuclear power, capital cost, energy economics, competitive with fossil fuels 1951 Jan p 32–38 input-output analysis, interchangeability of materials, price trends, materials technology, metals, plastics, competition among materials 1967 Sept p 254–266 cost of living, household appliances 1974 Sept p 74 'cost-push' inflation, 'demand-pull', economic analysis, inflation, inputout analysis 1971 Nov p 15–21 cotton, mildew-proofed	linking 1967 Sept p 148–156 cowpox, medical history, smallpox immunization, variolation, vaccination, 'vaccination' before Jenner 1976 Jan p 112–117 Cosackie virus, enteroviruses, poliomyelitis virus, tissue culture, echo viruses, epidemiology, benign and infectious intestinal viruses 1959 Feb p 88–97 CP: charge parity CP invariance, superweak-force hypothesis 1967 Mar p 50 CPT: charge parity time CPT conservation, time reversal, symmetry, parity, charge conservation, lambda decay, proton spin experiments in time reversal 1969 Oct p 88–101 CPT mirror, parity, symmetry, time reversal, mirror images 1965 Dec p 28–36 [301] CPT symmetry, antigravity, time reversal, antimatter, probability, philosophy of science

universe Cossionais	
universe, Cassiopeia, radio galaxies, Cygnus A, red shift, colliding	neurophysiology, imagination, neuronal networks, cerebral cortex,
	physiology of imagination 1958 Sept. p. 135-146 [65]
synchrotron radiation, radio star, supernovae, natural synchrotron	psychology, imagination, psychological testing, psychology of
polarization, astronomy, supernovae, photometric observations of nov	imagination 1958 Sept. p. 150–166
X-ray astronomy, sychrotron radiation, Scorpius, neutron stars, X-ray	conditions favoring advance in science 1958 Sept. p. 170–178
astronomy by rocket-borne instruments 1964 June p. 36-4	
astronomy by rocket-borne instruments 1964 June p. 36-4 neutron stars, pulsar, radio source, stellar evolution, gravitational	
collapse, angular momentum 1971 Jan. n. 48-6	elaboration of colonial languages 1959 Feb. p. 124-134
collapse, angular momentum 1971 Jan. p. 48-6 natural synchrotron 1956 Jan. p. 4	
neutron star origin of X-rays disproved 1964 Sept. p. 8	
crabmeat, picking machine 1972 Sept. p. 6	7 7 The second of the second o
crabs, biological clock, diatoms, marine algae, sand hoppers, tidal-zone	
organisms, tidal rhythms, integration of biological and sidereal	Greek and Hebrew civilizations 1965 Feb. p. 102-111
cycles 1975 Feb. p. 70-79 [1316	cricket song, behavioral genetics, insect behavior, nervous system 1974 Aug. p. 34-44 [1302]
crankcase oil, as pollutant 1973 Feb. p. 48	
eratering, moon, meteorites, tectonic processes, origin of lunar craters	poverty, infant mortality, suicide, drug addiction, changes in
1949 July p. 20–24	American family structure 1974 Aug. p. 53–61 [561]
fossil crater, Chubb crater, meteoritic impact, astroblemes	eye-witness testimony, perception, memory, jury trial
1951 May p. 64–69	9 1974 Dec. p. 23–31 [562]
meteorite craters, fossil crater, fossil craters in Canadian Shield	crime detection, police laboratory, forensic chemistry
1958 July p. 32-39	
meteorites, projectile, impact crater, fluid impact, effect of high-speed	crime deterrence, 'warden's fallacy' 1971 May p. 50
impact 1960 Oct. p. 128–140	crime statistics, uniform crime report 1977 July p. 56
coesite, meteorites, astroblemes, shatter cones, fossil Earth-	criminal law, asocial behavior, behavioral psychology, human behavior,
catastrophes 1961 Aug. p. 50–58 [801]	nunishment criminology milieu therapy behavioral science and the
moon surface, spacecraft, lunar geology, lunar exploration, structure,	criminal law 1963 Nov. p. 39-43 [400]
history, origin of moon from nine spacecraft visitations	expert witnesses, insanity defense, M'Naghten rule, Durham rule,
1967 Mar. p. 60-74	psychiatrists as witnesses 1974 June p. 18-23
Mariner 6, Mars, Mariner 7, telemetry, orbital motion, polar cap,	insanity defense 1972 Nov. p. 51
television camera, surface pictures and map of Mars	criminal responsibility, evidence in brain waves? 1950 Apr. p. 36
1970 May p. 26-41	criminology, asocial behavior, behavioral psychology, criminal law,
bomb craters, ecological warfare, defoliation, laterization, Vietnam war	human behavior, punishment, milieu therapy, behavioral science and the criminal law 1963 Nov. p. 39-45 [480]
1972 May p. 20–29 [1248]	the criminal law 1963 Nov. p. 39-49 [700] critical field strength, superconductivity, low-temperature physics,
planets, solar system, Earth, Venus, Venutian atmosphere 1975 Sept. p. 70–78	superconductive motor, fluxtrap, superconductive bearing,
dust storms, Mars, terrestrial planets, tectonic processes, mountain	superconductive amplifier applications of superconductivity
formation, erosion, hydrology, solar system 1975 Sept. p. 106–117	1960 Mar. p. 14-02
meteorite bombardment, planetary ages, solar system evolution,	critical path scheduling, scheduling, combinatorial analysis, algorithms,
cratering of four inner planets as key to solar-system history	hin packing mathematication of afficiency
1977 Jan. p. 84-99 [351]	1978 Mar. p. 124-132 [3001]
ultramafic-mafic lava rock 1976 June p. 50	critical temperature, superconductivity, high pressure, critical
see also: astroblemes	temperature in certain metals increases with pressure 1971 Apr. p. 83-94
craters, Mercury, planets, solar system, Mariner 10 mission	Cra Manna ant Balcalishia Europa Mandalanian Aurignacian
1975 Sept. p. 58-68	Cro Magno art, Paleolithic Europe, Magdalenian, Aurignacian- Perigordian, cave paintings 1953 Aug. p. 30-33
creationism, Darwinism, evolution, Bryan, Darrow, Scopes trial, Scopes trial, U.S.A. 1959 Jan. p. 120-130	anagodila animal bahasian Nija anagodila nagontal care rentile
trial, U.S.A. Darwinism, evolution, religion, Scopes trial, science teaching,	1976 Apr. p. 114-12"
antievolution laws in U.S. 1969 Feb. p. 15-21	Crossus archeological execution Lydian civilization Sardis, 6th
science teaching evolution religion, curriculum reform, Darwinism,	century B.C. 1961 June p. 124-135
Rible high school, Man, a Course of Study, biological sciences	Cromwell Current, ocean circulation, subsurface Equator stream
curriculum study 19/6 Apr. p. 55–59	1961 Apr. p. 105-116
Darwinism Tennessee 'monkey law' repealed 1907 July p. 42	Crookes tube, cathode-ray tube, oscilloscope, vacuum tube, Ferdinand Braun's invention 1974 Mar. p. 92-101
Dominion textbooks in California 1970 Way p. 33	Braun's invention 1974 Mar. p. 92-101 crop yields, agronomy, plant breeding, rice, wheat, maize, food and
Darwinism, creationism in California textbook controversy 1971 Jan. p. 46	agriculture, plant genetics 1976 Sept. p. 180–194
	cropping systems, agricultural economics, agricultural system, food and
Darwinism, Mississippi court overturns 'monkey law'	agriculture 1976 Sept. p. 98-105
Darwinism, 'equal time' in California schools 1972 Aug. p. 43	cross-aved trait albinism gene mutation Siamese cat visual cortex.
Darwinism, equal time in California rescinded Darwinism, 'equal time' for creationism in California rescinded	white mink, white tiger 1974 May p. 44-54 (1254)
(715 1 co. p	cross-linking, materials technology, polymers, natural polymers, plastics, covalent bonds 1967 Sept. p. 148-156
Darwinism, creationist textbook banned from Indiana schools	covalent bonds 1967 Sept. p. 148-170 cross transfusion, between humans 1951 Oct. p. 36
2005 7 50	crow, ornithology, signal behavior, animal behavior, language of crows
creationists, lose Texas textbook fight 1965 Jan. p. 50	1959 Nov. p. 119-131
	crow-calls, animal behavior, bird semantics 1956 Aug. p. 52
science, introduction to single-topic issue 1958 Sept. p. 58–65	crowding, group behavior, rats, population density, comparative
analytic geometry. Fermat's last	psychology, social pathology of crowding
mathematical invention, set theory, analytic geometry 1958 Sept. p. 66–73 theorem, innovation in mathematical innovation in physics	1962 Feb. p. 139–148 [506] crown gall, cancer, plant tissue culture 1952 June p. 66–72
	cruise missiles, counterforce strategy, atomic weapons, MIRV, arms race,
physics, physical models, mathematical model, the 1958 Sept. p. 74–82	missile accuracy, strategic weapons, C.E.P., accuracy as multiplier of
biology, evolution, philosophy of science, natural selection, innovation 1958 Sept. p. 100-113 [48]	force 1975 July p. 14-23
in biology	arms race, SALT, strategic weapons, tactical weapons, control systems,
in biology invention, industrial research, applied science, solid state physics, Bell invention, industrial research, applied science, solid state physics, 1958 Sept. p. 116–130	navigation systems 1977 Feb. p. 20-29 [691]
Laboratories solid-state physics 1958 Sept. p. 110-130	

arms control, SALT, bombers, strategic weapons, Carter	diamond-crystal structure, synthetic diamonds, graphite-crystal
administration 'comprehensive proposal' for US-USSR. force	structure, synthesis at low pressure 1975 Nov p 102–109
	crystal structure, piezoelectricity, quartz, ultrasonic transducer, nature
	and uses of piezoelectricity 1949 Dec p 46-51
	chemistry, chemical bond, molecular structure, protein structure,
animal communication, fish communication, whale, porpoises, marine	chemical kinetics, science, chemistry 1900-1950 1950 Sept p 32–35
biology, animal sounds in the sea 1956 Apr p 93-102	chemical Americs, science, chemistry 1700-1730 1730 sept p 32-33
crustal movement, continental drift, sea-floor spreading, magnetic	solid state physics X-ray diffraction ionic bonds, covalent bonds,
reversals earthquakes, plate tectonics 1968 Dec. p. 60-70 [875]	metallic bonds, molecular bonds, energy levels, the nature of solids
crying, communication, infant behavior, neonatal disorder, mother-child	1952 Dec p 39-49 [249]
interaction, sound spectrogram 1974 Mar p 84-90 [558]	physics polygons, polyhedra, axis of rotation philosophy of science,
cry ogenic pump, spectroscopy, vacuum, ultra-high vacuum, oil diffusion	topological limits of physics 1953 Jan p 50-56
ery ogenic pump, spectroscopy, vacuum, ditta-night vacuum, on antiosom	metallurgy, zone melting, vacuum furnace, pure metals
pump, sputter-ion pump, mass, vacuum down to 10 ¹² mm of	1954 July p 36–40
mercury 1962 Mar p 78-90	
cryogenic storage, spermatozoon bank, tissue preservation, frostbite,	dislocations, edge dislocation, soap bubbles, slip planes
freezing of living cells 1956 June p 105–114	1955 July p 80–87 [204]
energy resources, hydrogen, electrolyzer technology, hydrogen-energy	neutron, radiation, nuclear fission, solid state physics, effects of
economy, liquified hydrogen, fuel cell 1973 Jan p 13-21	radiation on solids 1956 Aug p 76-84 [245]
cry ogenic technology, low-temperature physics, helium, superfluidity.	diffusion, metallurgy, wandering of atoms in crystal lattice
superconductivity 1949 June p 30–39 [206]	1957 May p 103-110
superconductivity, computer technology, superconducting computers	field-emission microscope, metals, pictures of atoms
superconductivity, computer technology, superconducting computers	1957 June p 113–122
1961 July p 124–136	
Stirling cycle, refrigeration, hot-air engine, closed cycle, displacer	cellulose, rayon, forest products, lignin, polymers, paper,
1965 Apr p 119–127	polysaccharides, overview of natural polymer 1957 Sept p 156-168
cryogenies, free radicals, frozen free radicals, free radicals trapped for	materials technology, metals, aligned crystals, alignment of crystals for
study 1957 Mar p 90-102 [263]	control of mechanical and magnetic properties
electrical resistance, superconductivity, magnetism, upper limit of	1959 Apr p 125–141
temperature of superconductivity 1957 Nov p 92-103 [227]	ionizing radiation, metals, solid state physics, displacement of crystal
sound energy, heat conduction, phonon, thermoelectricity, quantum	structure by radiation 1959 Sept p 200–213
mechanics of heat conduction 1962 Dec p 92–104 [288]	molecular motion, computer modeling, particle motion key to bulk
	properties of materials 1959 Oct p 113–126 [265]
fluid dynamics, liquid, supercooling, nucleation, crystal growth,	stress fracture, materials technology, metallurgy, cracks and fracture
behavior of supercooled fluids 1965 Jan p 38-46	
argon, crystal structure, noble gases, solid state physics, solid noble	1960 Feb p 94–104
gases 1966 Oct p 64-74	magnetism, ferrites, materials technology, microwave radiation,
supercooling, helium 3/helium 4 dilution, nuclear cooling, approaching	computer memory, industrial applications of iron oxides
absolute zero, Pomeranchuk method 1969 Dec p 26-35	1960 June p 92–104
heat, diffusion, solid state physics, thermal waves, second sound, wave	lattice defects, lattice dislocations observed 1961 Oct p 107–116
propagation, phonon, helium, thermal waves in solid helium	Fermi surface, metals, gross properties explained as quantum effects
1970 May p 92–101	1963 July p 110–120
cry ostat, see cryogenics, liquid helium, low-temperature physics	steel alloys, ausform process, materials technology, heat-treating for
cryptands, alkali-metal anions, alkali-metal cations, electron orbitals	strength 1963 Aug p 72–82
solvated electrons, quantum mechanics 1977 July p 92–105 [368]	boron, metalloid element, borane fuels, properties and applications of
cryptobiotic animals, animal behavior, metabolism, anaerobic	boron compounds 1964 Jan p 88–97
metabolism, suspended animation, Nematoda, Rotifera, Tardigrada	metals, whiskers, fiber-reinforced, dislocations, matrix, composite
1971 Dec p 30–36	materials, two-phase materials 1965 Feb p 28-37
cryptococcal meningitis, baking, yeast, brewing, riboflavin synthesis,	crystallography, electron diffraction, slow electrons as diffraction
fermentation, cell physiology, yeasts, useful and noxious	probe 1965 Mar p 32-41
1960 Feb p 136–144	corrosion tunnel stress-corrosion failure, dislocations, metalliding
cryptography, code security, computer privacy, data-bank confidentiality	1966 Feb p 72–81
1973 May p 15-23	boron, crystallography, X-ray diffraction 1966 July p 96-107
cryptology, Sumer, hieroglyphs, a 3,500-year-old agricultural handbook	argon, cryogenics, noble gases, solid state physics, solid noble gases
1951 Nov p 54-55	1966 Oct p 64-74
Linear B script, Homer, Minoan language, Greek civilization, an	crystallography, ice, water molecules snow crystals, migrating lattice
account of the decipherment 1954 May p 70-75	faults in ice 1966 Dec p 118-126 [307]
code, polyalphabetic systems, rotor machine, cipher, history and	alloys, eutectics, metallurgy, controlled eutectics, whiskers, controlled-
technology of making and breaking ciphers and codes	cooling magnets 1967 Feb p 86-92
1966 July p 38-46	helium, solid state physics, zero-point motion, quantum solid, solid
cryptosphere, cryptozoa, Berlese funnel, natural history, ecological niche,	
animal behavior, life under rocks and rotting logs	helium, physical and theoretical properties 1967 Aug p 84-95
	solid-state electronics, X-ray crystallography, metals, semiconductor,
1968 July p 108-114 [1112] cryptozoa, Berlese funnel, natural history, ecological niche, cryptosphere,	nonmetals, materials technology, amorphous solid electrical
animal behavior life veder seeds and a seed seed to the life veder seeds and the life veder seed	conductivity 1967 Sept p 80–89
animal behavior, life under rocks and rotting logs	alloys, materials technology, metals, grain boundaries, lattice defects,
1968 July p 108–114 [1112]	dislocations, electron 'gas', nature of metals 1967 Sept p 90-100
crystal defects, materials technology, solid state physics, epitaxial growth,	aluminates, materials technology, ceramics, silicates, heat resistance,
surface chemistry, precipitation in solids, 'doping', chemical	ionic bonds, covalent bonds nature of ceramics
properties of materials 1967 Sept p 210-220	1967 Sept p 112–124
crystal energetics, crystal structure, metallurgy, conduction electrons,	amorphous solid materials technology, glass, supercooling, geometry
quantum mechanics quasi particle concept, Fermi surface, metal	of glass two-phase glasses 1967 Sept p 126-136
properties 1973 Jan p 88–98	channeling, ion beam 1968 Mar p. 90, 98
crystal growth, spiral growth screw dislocation, loop growth	phase memory, photon echoes laser, nuclear-spin echo
1955 Mar p 74-80	1968 Apr n 22 40
surface defects, metal 'whiskers', lattice defects, growth of metal	Diags slaw, A-ray crystallography, atomic structure. Y-ray difference.
whiskers 1960 July p. 64-77	Found analysis 1060 Iul 60 70 from
condensation nuclei, snow crystals natural and artificial condensation	hithasis kidney calculi, X-ray diffraction bladder stones gallstones
nuclei 1961 120 p. 120 131	urinary calculi
fluid dynamics, liquid supercooling, nucleation cryogenics, behavior	metals X-ray diffraction bound state - hi

1965 Jan p 38-46

metals, X-ray diffraction liquid state, physics of metals in the liquid state 1969 July p 72-82

fluid dynamics, liquid supercooling, nucleation cryogenics, behavior of supercooled fluids 1965 Jan p 38-4

Catricts United generator communication to the time	
carrier-wave generator, communication technology, diode laser, laser,	cultural differences, split-style art, visual perception, cultural context of
heterostructure lasers, light-emitting semiconductor, solid-state	perception, Hudson test 1972 Nov p 82-88 [55]]
electronics 1971 July p. 32 46	perception, Hudson test 1972 Nov p 82-88 [551]
BCS theory, electrical properties of metals, intermetallic compounds	Protograph, vinea culture, withing Taltalia tablets,
interculated crystals, superconductors, layered superconductors	Romania, Sumer, Sumerian writing 1968 May p 30-37
1071 No. on on	similar symbolism from Tigris to Danubr 2,000 B C 1967 Aug p 40
Crystal energation matallyray conduction of 1971 Nov p 22–33	cultural evolution, agricultural revolution. Neolithic archeology, tools
crystal energetics, metallurgy, conduction electrons, quantum	slash-burn agriculture, Stone Age forestry and agronomy
mechanics, quasi-particle concept, Fermi surface, metal properties	1956 Mar n 36_41
1973 Jan p 88-98	sociology, anthropology, multilinear human culture changes
corundum, cubic boron nitride, diamond, hardness, materials	cy, was a paragraph of the changes
technology, Mohs scale 1974 Aug p 62-70	1956 May p 69–80
alloys, dendrites, metal casting, metallurgy, solidification of metal	Bunga, tools, settlement of bouth bear issued
1074 D	origin of Polynesians 1956 Aug p 58-72
dislocations formula and 16	
dislocations, forging, metal forming, strain hardening, creep in metals	making in biological evolution of man, introduction to single-topic
1975 Apr p 116–125	1960 Sept p 62–75 [601]
antimatter, gamma radiation, gravitational interaction, positron	demographics, population growth, agricultural revolution, Industrial
probes, solid state physics, scintigraph 1975 July p 34-42	Revolution, population explosion, human evolution, historical
circle-grid analysis, metal stamping, sheet-metal production, strain	
hardening, metal structure 1976 Nov p 100-108	perspective on human population growth, how many ever lived
crystals, calcite, calcium carbonate crystals, embryonic development,	1960 Sept p 194-204 [608]
	climate, hunter-gatherer societies, Nile prehistory, Paleolithic
sea urchin embryo 1977 Apr p 82–92	settlements, stone tools 1976 Aug p 30-38
atomic structure, disclinations, dislocations, molecular structure,	cultural patterns, Irish families, Italian families, schizophrenia,
periodic structures 1977 Dec p 130–145 [393]	schizophrenia and culture 1957 Aug p 103-110
polio virus architecture 1959 Aug p 65	communication, mass-communication media, message systems,
crystal surface waves, sound waves, communication technology,	television violence, sociology, mass communications as social
electronic equipment, Rayleigh waves, signal processing, ultrasonic	
	environment 1972 Sept p 152–160 [679]
1712 Oct p 20-00	cultural relativism, nonverbal communication, posture, anthropology
erystal surfaces, molecular surface films, monomolecular films, two-	1957 Feb p 122-132
dimensional crystals 1973 May p 30-40	culture, genetic adaptation, human evolution, natural selection,
crystallographic techniques, atomic structure, 'extended fine structure'	civilization, human evolution in man-made environment
effect, materials technology, X-ray absorption 1976 Apr p 96-103	1960 Sept p 206-217 [609]
crystallography, clathrates, inclusion compounds, gas hydrates, inclusion	culture as concent, anthropology, human evolution, science, anthropology
compounds in biology and technology 1962 July p 82-92 [280]	1900-1950 1950 Sept p 87-94
laser, light refraction, nonlinear optics, light interactions, ultraviolet	culture of poverty, group behavior, poverty, community action, subculture
radiation, photon 1964 Apr p 38–49	of Western market societies 1966 Oct p 19-25 [631]
magnetothermoelectricity, thermomagnetic cooling, semimetal, solid-	poverty, Mexico City, buying habits, sociology 1969 Oct p 114–124 [651]
state refrigeration 1964 June p 70–82	1909 Oct p 114 12 17
carbon, polyethylene, spherulites, plastics, solid state physics	Cumae, Greek civilization, Classical archeology, Italy, 8th c B C Greek colony first in Italy 1963 Dec p 108-121
1964 Nov p 80–94	colony first in Italy 1963 Dec p 100-121
electron diffraction, crystal structure, slow electrons as diffraction	cumulus clouds, trade wind clouds, climate, atmospheric circulation,
probe 1965 Mar p 32–41	ocean-atmosphere interface 1953 Nov p 31-35
Earth core, iron-nickel alloy, high-pressure technology, X-ray	cuneiform script, Sumer, law code, Lipit Ishtar, Hammurabi, earliest law
diffraction, core studies by analogy, diffraction patterns of iron	code 1865 B C 1948 June p 44-77
alloys 1965 June p 100–108	archeology, Sumer, law code, 3000 B C to 1500 B C, Ur, Nippur
boron, crystal structure, X-ray diffraction 1966 July p 96–107	1957 Oct p 70-65
ice, crystal structure, water molecules, snow crystals, migrating lattice	curare, learning, autonomic nervous system, heart rate, blood pressure,
	electrocardiography learning voluntary control of allfonomic
faults in ice 1966 Dec p 118–120 [30/]	nervous system 1970 Jan p 30-39 [525]
anthracene, photosynthesis, electron transfer, exciton, plants, organic	curiosity, fundamental research, science funding, 'mission-oriented'
crystals, conjugated aromatic hydrocarbons 1967 Jan p 86-97	funding agencies, university science, N S F, introduction to a single-
crystals, calcite, calcium carbonate crystals, crystal structure, embryonic	tunding agencies, university science, N.S.F., introduction to a 47-51
development, sea urchin embryo 1977 Apr. p. 82-92	topic issue on fundamental questions in science 1953 Sept p 47-51
CS gas, bacteria, chemical weapons, biological weapons, Vietnam war,	rhesus monkeys, problem solving, genetic traits, animal behavior 1954 Feb p 70-75
arms race, virus disease, rickettsiae, tear gas, herbicide, chemical-	1934 reb p 70
biological warfare 1970 May p 15-25 [1176]	current density, electron beam, cold cathode, X-ray photography, field emission 1964 Jan p 108-118
cubic boron nitride, corundum, crystal structure, diamond, narquess,	emission 1964 Jan p 100-110
materials technology. Mohs scale 1974 Aug p 02-70	currents, Corrolis effect, ocean circulation, wind effect, laboratory
threat anthropology 'national character', tribes 1949 Aug p 11-13	analogues 1970 Jan p 114-121 [390]
1 december 1 appointed 1 asmanians, Yumbii, I alliana,	curriculum reform, science curriculum, science teaching, high school, not
expectang primitive cultures 1937 May p 37-43	enough scientists and engineers 1954 Feb p 27-29
Chartenty religion Melanesian cargo cuit	high school, science teaching, physics curriculum, Physical Science
1939 IVIAY D 111 123	Study Committee, university sponsored curriculum reform
agricultural revolution, Fertile Crescent, human evolution, Neolithic	1958 Apr p 56-64 [229]
agricultural revolution, Fet the Crescent, numbers and animals archeology, 8000 B C domestication of plants and animals	education, mathematics teaching, high school, university sponsored
archeology, 8000 B C dolliestication of plants	curriculum reform 1958 May p 64-74 [238]
commerce, money, bride price, red-feather money. Southwest Pacific-	science teaching, evolution, religion, Darwinism, creationism, Bible
commerce, money, bride price, red-realist money, 1962 Mar p 94-104	high school, Man, a Course of Study, biological sciences curriculum
Solomon Islands culture African culture 10 000 B C	study 1976 Apr p 33-39
Solomon Islands culture Mesolithic era, Ishango man, harpoon, African culture 10 000 B C 1962 June p 105-116	science teaching summer institutes for teacher-training
1902 Julie p 105-110	1956 Apr p 72
cultural archeology, Isimila, Paleolithic culture, stone tools Old Stone 1961 Oct p 118-129	science teaching U.S. secondary schools 1957 Feb p. 57
Age site in Africa	science teaching US secondary schools 1958 Feb p 40
Age site in Africa cultural assimilation, Amerindian, Hopi Indians, Tewa Indians Pueblo 1957 June p 126-136	education funding. U.S. National Science Foundation program
Indians 1957 June p 120-150	1958 July p. 47
Indians racial discrimination, Amerindian, genocide, civil rights, persisting 1960 Feb p 37-45	Chemical Education Materials Study 1960 June p. 82
identity of Amerindians	science teaching, Biological Sciences Curriculum Study
identity of Amerindians cultural differences, split-style art, visual cultural context of perception, cultural differences, split-style art, visual [1972 Nov p 82–88 [551]]	1960 July p 81
cultural context of perception, cultural differences, spinos p 82-88 [551] perception, Hudson test	•
perception, ************************************	

urtain wall, skyscrapers, building construction, load-bearing wall 1955 Mar p 44–48	cytochrome oxidase, ceruloplasmin, hemocyanin, oxygen transport, enzymes, copper deficiency, copper biochemistry, Wilson's disease,
wind bracing, skyscrapers, construction technology, Eiffel Tower,	tyrosinase 1968 May p 102–114
cantilever, truss bridge, steel frame construction	cytogene, cytoplasmic inheritance, reciprocal crossing, maternal
1974 Feb p 92–105	inheritance, sex linked traits, non-Mendelian inheritance, male
curvature of space, cosmology, universe expansion, Olber's paradox,	sterility, paramecium, chloroplast, plastids, review of evidence for an
world lines, red shift, galactic evolution, evolutionary universe,	extra-chromosomal genetics 1950 Nov p 30-39 [39]
	cytokinins, auxins, plant growth, dormin, plant hormones, giberellin
	1968 July p 75–81 [1111]
Riemann, non-Euclidian geometry, general relativity	cytology, isotopes, radioautography, molecular biology, use of
1954 Nov p 80–86	radioisotopes in biological research 1949 Feb p 30-41
curved line, mathematics, straight line, Euclidean geometry, geometry,	ionizing radiation, photoelectric effect, Compton effect, chemical
reach and limits of axiomatic approach 1956 Mar p 104-114	onizing radiation, photoelectric effect, Compton effect, encimelar
cushion plant, alpine environment, pinks, lammergeier, Himalayan	effects, free radicals, lethal effects of radiation 1951 Dec p 22-25
mountain ecology 1961 Oct p 68–78	plutonium, ultra-microchemistry, embryonic development, chemistry,
cut glass, by photochemistry 1953 Mar p 50	isolation of plutonium established a new research technology
cuttlebone, marine biology, buoyancy, swim bladder, chambered nautilus	1954 Feb p 76–81
1960 July p 118–128	microsome, protein synthesis, ribosome, RNA, recognition of ribosome
cyanate, chemotherapy, genetic disease, anemia, hemoglobin, erythrocyte,	as site of protein synthesis 1958 Mar p 118-124 [52]
sickle cell disease 1975 Apr p 44–50 [1319]	amoebae, cell, sol-gel reaction, high pressure, effect of high pressure on
cyanobacteria, algae, algal bloom, blue-green bacteria, gas vacuoles	cellular activity 1958 Oct p 36-43
1977 Aug. p 90–97 [1367]	chromosome breakage, radiation damage, ionizing radiation, mutation,
cybernetics, feedback, automatic control, self-regulation, computer	radiation damage to living cell 1959 Sept p 94-100 [57]
science, automata theory, mechanical, biological, social self-	cell nucleus, cytoplasm, cell organelle, chromosome, cell physiology,
regulation 1948 Nov p 14–19	RNA, DNA, endoplasmic reticulum, nuclear control of cell
control theory, mathematics, computer programming, feedback,	1960 Jan p 126-136
frequency response, stability, dynamic programming, 'policy'	energy transformation, ATP, mitochondrion, citric-acid cycle,
	glycolysis, oxidative phosphorylation, membrane, energy
concept 1964 Sept p 186–200 communication technology, information theory, language, machine	transformation in the cell 1960 May p 102–114
communication technology, information theory, language, machine	cilia, flagella, structure and function 1961 Feb p 108–116 [79]
communication, communication, introduction to single-topic issue	cell membrane, pinocytosis, cell metabolism, ingestion by outer
on communication 1972 Sept p 30–41 [677]	
cyclic AMP, acrasın, amoebae, adrenalın, social amoebae, slime mold,	
Dictyostelium 1969 June p 78–91	cell anatomy, spermatozoon, ovum, virus, science history, muscle cell,
ACTH, ATP, glucogenesis, glycolysis, hormone, epinephrine, cell	plant cell, connective tissue cell introduction to single-topic issue on
metabolism, activation of cyclic AMP by hormones	the living cell 1961 Sept p 50-61 [90]
1972 Aug p 97–105 [1256]	ATP, chloroplast, mitochondrion, photosynthesis, cell metabolism,
brain function, dopamine, endocrine system, messenger molecules,	glucogenesis, citric-acid cycle, glycolysis, oxidative phosphorylation,
nervous system, neurotransmitters, L-DOPA treatment, Parkinson's	cellular transformation of energy 1961 Sept p 62-73 [91]
disease, 'second messengers', brain endocrinology	ribosome, protein synthesis, DNA, mRNA, tRNA, nucleus,
1977 Aug p 108–119 [1368]	chromosome, how cells make molecules 1961 Sept p 74–82 [92]
cyclic molecules, catenane, chemical topology, topological isomer,	mitotic apparatus, chromosome, meiosis, mitosis, mechanism of cell
molecular structure, rung molecules, linking and knotting of rung	division 1961 Sept p 100–120 [93]
molecules 1962 Nov p 94–102 [286]	cell differentiation, tissue specialization, 'lampbrush' chromosome,
cyclone, wind, meteorology, atmospheric circulation, anticyclones, source	embryonic development, zygote, fertilization, ovum, clone, how cells
of prevailing winds 1956 Dec p 40–45 [841]	specialize 1961 Sept p 124–140
East Pakistan flood, flood disasters 1971 Mar p 46	cell aggregation, tissue differentiation, cell 'recognition', embryonic
cyclosis, actinomyosin, cilia, muscle contraction, flagella, cytology,	development, how cells associate 1961 Sept p 142–165
cytoplasmic streaming, actin, myosin, underlying unity of cellular	active transport, passive transport, pinocytosis, phagocytosis, osmosis,
motion 1961 Sept p 184–204 [97]	cell membrane, fertilization, functions of cell membranes
cyclosomes, cardiac function, hagfish, comparative psychology, knot-	1961 Sept p 167–180 [96]
tying fish, hermaphrodite 1966 Feb p 82–90 [1035]	actinomyosin, cyclosis, cilia muscle contraction, flagella, cytoplasmic
cyclotron, colliding beam accelerator, synchrotron, high-energy physics,	streaming, actin, myosin, underlying unity of cellular motion
strong-focusing synchrotron, design and purposes of big accelerators	1961 Sept p 184–204 [97]
1958 Mar p 64-76 [251]	cell communication, central nervous system, nerve conduction,
technological advances 1959 Jan p 69	ganglion reflexes, neuroreceptors, retina, nerve impulse.
Cygnus A, universe, Cassiopeia, radio galaxies, red shift, Crab Nebula,	neurotransmitters, neural synapse, neuromuscular synapse, how cells
colliding galaxies 1956 Sept p 204-220	communicate 1961 Sept p 209-220 [98]
Cygnus X-1, binary stars, black hole, black hole search	hearing, vision, sensory organs ommatidia, neuroreceptor cells, taste
1974 Dec p 32-43	buds, how cells receive stimuli 1961 Sept p 222-238 [99]
Cygnus X-3, radio outbursts 1973 Jan p 45	bacteriology, microorganisms, PPLO, virus, electron microscopy,
cytochrome, chlorophyll, tetrapyrrole ring, hemoglobin, respiration,	smallest free-living cells 1962 Mar p 117-126 [1005]
enzymes, tetrapyrrole virtuosity 1958 Aug p 77-81	Barr body, sex differences, chromosome, genetic mosaic, Klinefelter's
chlorophyll, photosynthesis, chloroplast, electron transfer, ATP,	syndrome, Turner's syndrome, chromosomal anomalies sex
pigments, role of chlorophyll in photosynthesis,	differences in tissue cells 1963 July p 54-62 [161]
1965 July p 74–83 [1016]	dialectical-materialist cell theory 1958 Sept p 89
evolution, proteins, species specificity, computer analysis, amino-acid	electron micrograph of living cell 1961 Apr p 78
substitution, phylogeny from amino-acid substitution	reconstituted amoebas 1970 May p 57
1969 July p 86-95 [1148]	cytoplasm, cell nucleus, cell organelle, chromosome, cell physiology,
cytochrome antagonist, diphthena toxin toxicity, diphthena toxoid,	RNA, DNA, endoplasmic reticulum, cytology, nuclear control of cell
diphtheria antitoxin 1952 Oct. p. 32–36	1060 Inn = 106 100
cytochrome C, protein evolution, protein structure, respiration, amino-	1960 Jan p 126-136 Acetabularra, giant cells mermaid's wineglass, cell nucleus algae, giant
acid substitution, mutation rate, 1.2 billion year record of evolution.	cells in study of nucleus-cytoplasm interaction
ancient protein 1972 Apr. p. 58-72 (1245)	1066 No 110 104-10-1
cytochrome helix, mathematical model, computer modeling giant	cytoplasmic inheritance, reciprocal crossing, maternal inheritance, sex
molecules myoglobin, hemoglobin, molecular modeling DNA	linked traits non-Mendelian inheritance male sterility, paramecium,
1966 June p 42-52 [1043]	chloroplast, plastids, cytogene, review of evidence for an extra-
	chromosom all strongene, leview of evidence for an extra-

chromosomal genetics

1950 Nov p 30-39 [39]

insecticide resistance, persistent insecticides

maternal inheritance, extranuclear DNA, mitochondria, chloroplast, Chlamydomonas 1965 Jan p 70-79 [1002 eytoplasmic streaming, actinomyosin, cyclosis, cilia, muscle contraction,	petier, petier, petierly, mind-generation pesi
riagena, cytology, actin, myosin, underlying unity of cellular motion	Harman Tadianon, A-ray, Son ecology
theory of amoeboid motion 1962 Feb p. 112, 122, 132	(Moura motabalism annaball at
cytosurgery, microsurgery, micromanipulator, enucleation 1950 Oct p 48-5	ecological effect of pesticides 1970 Apr p 72-
micromanipulator, cell nucleus, on transplanting nuclei	a peril to hones bee
1952 Apr. p 58-6-	trace amounts in Antarctic fauna 1965 Sc
	concentrations in marine mammals 1968 A. DDT residues, insecticide, fallout, ecological cycles, food chain,
D	ecological redistribution of pollutants 1967 Mar p 24-
D	De Forest, radio, triode, vacuum tube, Marconi, Fleming valve, d rectification, De Forest's 1906 contributions 1965 Mar p
daddy longlegs, Phalangida, harvestman, Arachnida, animal behavior, natural history 1962 Oct p 119-128 [137]	de re Metallica, Agricola, woodcuts from Hoover translation 1951 Feb
dairying, animal husbandry, cattle, Zebu cattle, European cattle, selective stock breeding 1958 June p 51-59	dead galaxies, mean density of matter 1969 A
dam safety, reservoir, earthquake zones 1977 Ian n 46	Dead Sea scrolls, Judaism, New Covenanters, Biblical archeology Qumran site 1971 Nov 1
Dance of the Solids, materials technology, a poem by John Updike.	Gnostic library, Judaism, religion 1973 Jan 1
occasioned by the September 1967 issue 1969 Jan p 130-131 Danish history, peat bog, archeology, weapons deposits, organic relies	deafness, ear, directional orientation, hearing, cochlea 1957 Aug p 66
1953 Oct p 84-88	Waardenburg's syndrome 1971 No
Danube River, pre-Neolithic village 1968 Apr p 50 Darrow, Darwinism, evolution, creationism, Bryan, Scopes trial, Scopes	death, aging life expectancy, biology of senescence 1948 June psychological autopsy 1968 Oc
trial, USA 1959 Jan p 120–130	death rate, aging, disease etiology, life expectancy, male female life
Darwin, evolution, science history, Charles Darwin biography 1956 Feb p 62-72 [108]	expectancy 1958 Feb p
Darwinism, Lysenkoism, Lamarck, acquired characteristics, genotype,	aging, life expectancy, comparative life spans in man and other a 1961 Aug p l
evolution, phenotype, mutation, ostrich calluses, speciation, religion,	abortion, population, marriage rate, birth rate, vital statistics
orthodoxy, experiments in acquired characteristics 1953 Dec p 92-99	menarche, infant mortality, 1538-1812, parish registers, York, England 1970 Jan p 1
evolution, creationism, Bryan, Darrow, Scopes trial, Scopes trial,	birth rate, demographic transition, human population, populatio
USA 1959 Jan p 120-130 natural selection, Wallace, science history, life and work of Alfred	growth history 1974 Sept p death-simulation, opossum, marsupial, animal behavior, playing po
Russel Wallace 1959 Feb p 70-84	by opossum and other animals 1950 Jan p
science history, Darwin's predecessors 1959 May p 60-66 evolution, religion, Scopes trial, science teaching, creationism,	Death Valley, desert pupfish, fish, species isolation, endangered spe 1971 Nov p 104-110
antievolution laws in U S 1969 Feb p 15-21	debt financing, economic development, Japan, employment policy,
science teaching, evolution, religion, curriculum reform, creationism, Bible, high school, Man, a Course of Study, biological sciences	investment, government-business relations, Japan's economic g 1970 Mar p
curriculum study 1976 Apr p 33–39	decimal system, mathematics, geometry, topology, quinary system,
evolution, Huxley's own account, 'apes and bishops' 1954 Mar p 52 creationism, Tennessee 'monkey law' repealed 1967 July p 42	from atto- to tera-
creationism, textbooks in California 1970 May p 55	decision ma: 'ability, subjective probability. Mc Carlo ctive and objective probability
creationism, creationism in California textbook controversy 1971 Jan p 46	1957 Nov p 128–138
creationism, Mississippi court overturns 'monkey law'	decision theory, mathematics, games theory, work of J. Von Neuman and O. Morsenstern 1949 May p. 2
creationism, 'equal time' in California schools 1971 Feb p 46	games theory, uncertainty principle, probability, pure strategy, car
creationism, 'equal time' for creationism in California rescinded 1973 Feb p 47	games illustrate theory 1951 Jan p 4 operations research, systems analysis 1951 Mar p 1
creationism, creationist textbook banned from Indiana schools	linear programming, mathematical model 1954 Aug p 2
19// June p 61	games theory, minimax, pure strategy, mixed strategy, worst-case analysis 1955 Feb p 7
Darwin's finches, speciation, Galapagos Islands, evolution	economics, mathematical model social sciences, mathematics in
data transmission, artificial satellite, communication, telecommunication,	economics and other social sciences 1964 Sept p 168 games theory, mathematical logic, paradox, 'metalogic' to solve
1 1 Juletion digital transmission 1700 Gept D 177 170	paradox 1967 July p 51 energy economics, power production, technology assessment, tort li
dating, see dendrochronology, coral rings, radioisotope dating, and the	economic planning market process 1971 Sept p 191-200
Davisson-Germer experiment, electron, wave-particle duality, diffraction,	decompression, continental shelf exploitation, saturation diving, underwater shelters, diving, oceanographic exploration
interference fringes, electron diffraction	1966 Mar p 24-33 [10
Day lamp, electrochemisty, phogastor 1960 June p 106-116 history, Humphry Davy, biography 1960 June p 106-116 history, Humphry Davy, biography 1960 June p 106-116	dedifferentiation of plant cells, tissue culture, plant tissue grafts plant hormones plant growth requirements 1950 Mar p 48
day-night temperature, climate, plant growth, greenheast, and the total	dedifferentiation of tissue cells, embryonic development, regeneration,
	cancer 1949 Dec p 22- deep-sea diving, laser illumination 1970 Dec p
day's length. Earth-Moon system, lunar oron, moon, tiday 1972 Apr p 42-52	deep-sea drilling, Earth crust, ocean evolution Pacific plate, plate tectonics, sedimentary cores voyager of the Glomar Challenger 1973 Nov. p. 102-112 19.
DDT, malaria, W H O, mosquitoes, eradication of malaria, eradication of malaria, w H O, mosquitoes, eradication of malaria, eradication of	deep-sea environment, bacteria barophilic bacteria, deep-sea microbes
1952 Oct p 21-25	Alvin submersible 1977 June p 42-52 [92

eep-sea microbes, bacteria, barophilic bacteria, deep-sea environment,	microcircuits in the nervous system 1978 Feb p 92-103 [1380]
Alvin submersible 1977 June p 42–52 [926]	dendrochronology, Douglass, science history, A E Douglass and tree-ring
eep-sea scattering layer, 'false bottom', marine biology, plankton, sonar,	clock 1952 Jan p 54–58
shrimp, heteropod, deep-sea 'layer of life' 1951 Aug p 24-28	archeological dating, carbon 14 dating, European prehistory
sonar, echo-sounding, ocean floor, plankton, photic zone, 'false	1971 Oct p 63–72 [672]
bottom' 1962 July p 44–50	climate, radiocarbon dating 1972 May p 92-100 [1250]
	carbon 14 abundance, climate, ice ages, Maunder minimum, solar
	physics, sunspots 1977 May p 80–92 [925]
badger, dog, horse, cheetah, locomotion, comparative anatomy,	denitrifiers, nitrogen, biological nitrogen fixation, ammonia, nitrifiers,
	nitrogen cycle, legumes 1953 Mar p 38-42
leer mice, brown fat, altitude adaptation, Quechua Indians,	dense stars, binary stars, supernovae, X-ray binary stars
acclimatization, hemoglobin, metabolic rate, exercise, human	1975 Mar p 24-35
physiology at high altitude 1970 Feb p 52-62 [1168]	density-gradient, ultracentrifugation, separation techniques
defense, see military	1965 Aug p 70–76
defoliation, bomb craters, cratering, ecological warfare, laterization,	
Vietnam war 1972 May p 20–29 [1248]	density-gradient centrifugation, hybrid cells, DNA, RNA, ribosomal
deforestation, forestry, nitrogen fixation, ecosystem, resource	RNA, gene transcription, gene complement, DNA-RNA
management, runoff, erosion, watershed, deforestation experiment	hybridization experiments 1964 May p 48–56
1970 Oct p 92–101 [1202]	dental adhesive, barnacle cement 1968 Aug p 46
degenerate gas, dwarf stars, gravitational collapse, white dwarfs, binary	dental hygiene, effectiveness of fluoridation 1956 Feb p 58
stars, 'dying' stars 1959 Jan p 46–53	dental insurance, experimental prepayment plans 1950 Sept p 51
degenerative diseases, cortisone. ACTH, inflammation, hormone, stress,	dental research, germ-free environment, immune response, surgical
experience with and appraisal of two hormonal drugs	isolator 1964 July p 78-88
1950 Mar p 30-37 [14]	dentin, teeth, enamel, metabolism, fluoridation 1953 June p 38-42
chronic illness, morbidity, mortality rates, medical care, vital statistics,	dentistry, caries, bacteriology, fluoridation, new theory of tooth decay
life expectancy, infectious disease, causes of death	1948 Oct p 20–23
1973 Sept p 76-84	caries, tooth enamel, bacteriology, causes of tooth decay
immune system, slow virus infection, virus disease, kuru, scrapie,	1957 Dec p 109–116
cancer virus, herpes virus 1974 Feb p 32–40 [1289]	transplanting and re-planting of teeth 1964 Feb p 72
cancer virus, herpes virus 1974 Feb p 32–40 [1289] degenerative evolution, caves, ecology 1955 May p 98–106	caries and periodontitis in buccal ecology 1972 Feb p 42
degrees C, temperature, means Celsius, not Centigrade 1949 May p 26	deoxyribonucleic acid, see DNA
Deimos, Mars, Martian moons, Phobos, Mariner spacecraft missions	depression, blue Monday, morale, not fatigue 1950 Aug p 31
1977 Feb p 30–37 [352]	deprivation dwarfism, ACTH, child development, dwarfism, emotional
delay-Doppler mapping, Doppler effect, planetary motion, radar	deprivation, growth hormone, 'bone age', anorexia nervosa
astronomy, Mercury, Venus, microwaves 1968 July p 28–37	1972 July p 76–82 [1253]
delayed feedback, confusion instant 1951 Feb p 36	depth perception, 'visual cliff', infant, comparative psychology, visual
delinquency, aggression, violence, motion picture film, television,	perception, genesis of depth perception 1960 Apr p 64–71
catharsis, effects of observing filmed violence	vision, learning, visual perception, innate and learned response to
1964 Feb p 35-41 [481]	visual cues 1961 Mar p 138–148
deltas, Mississippi river, meanders, alluvial valley, floods	pattern recognition, visual perception, computer graphics, stereoscopic
1951 Apr p 18–23	images, texture discrimination 1965 Feb p 38–48 [318]
'demand-pull', 'cost-push' inflation, economic analysis, inflation, input-	binocular vision, eye, neurophysiology, optic chiasm, stereopsis, visual
output analysis 1971 Nov p 15–21	cortex 1972 Aug p 84–95 [1255]
Democritus, atom, science history 1949 Nov p 48–49	depth reversal, Necker cube, optical illusion, reversing figures, visual
demographic transition, economic development, industrialization,	perception 1971 Dec p 62–71 [540]
urbanization, population control, family planning economic	dermatitis, allergic reaction, autosensitivity, poison ivy, rheumatoid
development and the demographic transition	arthritis, multiple sclerosis, delayed hypersensitivity
1963 Sept p 62–71 [645]	1960 Apr p 129–137
population growth, world population, zero population growth, birth	from brass 1952 May p 42
rate, gross reproduction rate, net reproduction rate, extrapolation	dermatoglyphics, correlation theory, Galton, eugenics, life and work of
from world-statistics population model 1973 Mar p 15–23 [683]	Francis Galton, regression to mean 1954 Jan p 72–76
economic development, human population, population explosion, zero	skin, hair, surface area, skin glands, thermoregulation, structure and
population growth, introduction to single-topic issue on the human	function of human skin 1965 Feb p 56–66 [1003]
population 1974 Sept p 30–39	skin, epidermal ridges, chromosomal anomalies
birth rate, death rate, human population, population-growth history	1969 Dec p 72–84 [1164]
1974 Sept p 40–51	dermatology, porphyria, pink tooth disease, gene pool, tracking porphyria
developed countries, human population, birth control, zero population	among Afrikaaners 1957 Mar p 133-142
growth 1974 Sept p 108–120	desalination, ion exchange alkali, amino-acid separation
developed countries, progenitive family, human population	1950 Nov p 48–51
1974 Sept p 122–132	distillation, water, ion exchange, solar still, alternative technologies
distribution of wealth, economic development, middle classes,	1957 Mar p 37–45
population growth, production statistics, natural resources	ice crystals isobutane, sea-water freezing, heat of fusion, freezing as
1976 July p 28–35	
economic-level role 1964 June p 56	alternative to distillation 1962 Dec p 41-47 economic development, industrialization, water supply, irrigation,
birth control, in China 1973 Nov p 49	water resource management, technology and economics of water in
world statistics 1976 Nov p. 67	economic development 1963 Sept. n. 92–108
demographics, population growth, cultural evolution, agricultural	huran auchana
revolution, Industrial Revolution, population explosion, human	Desargue's theorem, projective geometry, Renaissance paintings,
evolution, historical perspective on human population growth, how	Leonardo Durer, Pascal's theorem, mathematics, projective
many ever lived 1960 Sept p 194-204 [608]	geometry as systematized by Poncelet and Klein 1955 Jan p 80-86
education US population, labor force age-sex distribution gross	Descartes, Fermat, mathematics history, analytic geometry, conic
national product. U S census more from the U S census of 1960	sections, Euler, mathematics 1040 for m 40 45
1962 Oct p 30–37	Cartesian geometry, mathematics, analytic geometry, philosophy, Rene
demyelinating factor, slow virus infection, multiple sclerosis, myelin	Descartes, biography 1959 Oct p 160-173
sheath poliomyclitis latent viruses 1970 July p. 40.46	Descartes, biography 1959 Oct p 160-173 human anatomy, sensory perception, neuropsychology, eye ear, 17th c
dendrites, alloys crystal structure, metal casting, metallurgy,	approach to human perception, mechanistic hypothesis
solidification of metal 1974 Dec. n. 88_95	inca Man - too see - too s
nerve circuits synapse postsynaptic potential olfactory bulb, retina,	1964 May p 108-116 [184]

. .

desegregation, public opinion, American Negro, U.S. whites, attitude	acanomía develes es es
survey, racial segregation, sociology, longitudinal attitude study 1956 Dec. p. 35-3	economic development, input-output analysis, developed countries, complementary economic structures of developed and
racial integration, public opinion, attitude survey. U.S. whites	
American Negro, longitudinal attitude study reported in 1956	agricultural production, equatorial rain forests, tropical climate, laterization, lateritic soil 1964 Nov. p. 96–102 [870]
1964 July n. 16-23 1623	human mutation and the
racial integration, American Negro, U.S. whites, attitude survey, public	DOVERTY 1068 Nov. n. 27-35
opinion, longitudinal attitudes study 1971 Dec. p. 13-19 1673	high sate monthly was a last
desert, Mars, polar cap, atmosphere, climate, 'canals', picture from Earth-	- 1974 Sept. p. 148–159
bound study 1953 May p. 65-73	foreign aid, technology transfer, technical assistance, human
Nabataean culture, irrigation, wadi, agricultural system, restoration of Nabataean irrigation works in the Negev 1956 Apr. p. 39-45	population 1974 Sept. p. 172–182
Nabataean irrigation works in the Negev 1956 Apr. p. 39-45 desert adaptation, Arctic flora, cold adaptation, paleobotany, Greenland	p 5) v- 18-1, manuatition, 100d and agriculture, human human
flora, adaptations to Arctic climate 1956 Feb. p. 88–98	1976 Sept. p. 40-49
comparative psychology, kidney function, salt-water balance,	•
thermoregulation, man:camel comparison	development 1976 Sept. p. 196-205 food-production increase 1969 Dec. p. 50
1959 Dec. p. 140-151 [1096]	sex role, U.N. conference on women's role 1975 Sept. p. 53
behavioral adaptation, ground squirrels, Mojave desert, animal	developmental psychology, learning, imprinting, animal behavior, effect of
behavior, kidney function, thermoregulation, desert mammals'	early life on later learning 1958 Mar. p. 81–90 [416]
adaptations to heat and aridity 1961 Nov. p. 107-116	
antelope, thermoregulation, water drinking, evaporation, eland and	conditioning, information processing, space, size, shape perception
oryx, survival without drinking 1969 Jan. p. 88–95	
desert ecology, Joshua trees, mesquite, creosote bushes 1955 Apr. p. 68–75 [114]	animal behavior, homing behavior, kittens, learning, suckling 1972 Dec. p. 18-25 [552]
trace elements, cobalt, land reclamation, vitamin B12 synthesis,	Devon caves, science history, Neanderthal man, human evolution, stone
agricultural technology, reclamation of infertile Austrialian land	tools, idea of man's antiquity 1959 Nov. p. 167-176
1959 Jan. p. 97–106	Devonian period, evolution, lungfish, air-breathing fishes, fish physiology,
algae, lichens, symbiosis, fungi, polar ecology, symbiotic nature of	conquest of land-breathing organs 1968 Oct. p. 102-111 [1125]
lichens 1959 Oct. p. 144–156 [111]	diabetes, first synthetic insulin 1963 Dec. p. 72
Negev desert, irrigation, agricultural technology, land reclamation,	viral as well as genetic etiology? 1976 Feb. p. 55
Israel, desert reclamation 1960 Mar. p. 54-63	diabetes insipidus, thirst, salt excretion, electrolyte balance,
desert plants, C-4 trait, efficiency, plant breeding	thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory
1973 Oct. p. 80–93 [1281] desert pupfish, Death Valley, fish, species isolation, endangered species	1956 Jan. p. 70-76
1971 Nov. p. 104–110 [1236]	dialects, speech, language, American languages, linguistics, changes in
desert rat, kidney, water balance, oxidation of food, how banner-tailed	U.S. speech 1950 Jan. p. 48–51
kangaroo rat survives without water 1953 July p. 73–78 [1050]	dialysis, heart-lung machine, kidney machine, surgery 1954 Aug. p. 24-27
detergents, an explanation of their action 1959 July p. 71	
pollution curbed 1964 Sept. p. 84	enzyme-substrate complex, enzymes, catalysis 1959 Aug. p. 119-123 kidney, artificial kidney 1961 July p. 56-64
deterrence, ABM, MIRV, SALT, ICBM, arms race, counterforce strategy, dynamics, instability of arms race	diamond, meteorites, Canyon Diablo meteorite, iron-nickel phases, shock
1969 Apr. p. 15–25 [642]	hypothesis, asteroids, origin of meteorites 1965 Oct. p. 20-30
letoxification, alcohol metabolism, drug inactivation, enzyme, liver	corundum, crystal structure, cubic boron nitride, hardness, materials
function, metabolism of drugs, cirrhosis 1975 June p. 22-31 [1322]	technology, Mohs scale 1974 Aug. p. 62-70
leuterium, fusion reactor, nuclear power, magnetic bottle, plasma	plumes, Earth mantle, kimberlite pipes, volcanic eruption, genesis of kimberlite pipes 1978 Apr. p. 120-132 [931]
confinement, tritium, magnetic pumping, stellerator 1958 Oct. p. 28-35	see also: synthetic diamonds
algae, reaction kinetics, metabolism of mammals, penicillin mold,	diamond-crystal structure, crystal growth, synthetic diamonds, graphile-
heavy water biology 1960 July p. 106–116	crystal structure, synthesis at low pressure 1975 Nov. p. 102-103
leuterium abundance, cosmology, 'big bang' theory, 'closed' universe,	Dianetics, validity questioned 1950 Oct. p. 26
'open' universe, universe expansion, age of elements, average density	diapause, biological clock, circadian rhythm, dormancy, insect behavior, insect metabolism, photoperiodicity 1976 Feb. p. 114-121 [1335]
1976 Mar. p. 62–79	diatoms, biological clock, crabs, marine algae, sand hoppers, tidal-zone
leuterium-hydrogen ratio, 'big bang' theory, deuterium synthesis, cosmology, heavy hydrogen, interstellar matter	organisms, tidal rhythms, integration of biological and sidereal
1974 May p. 108–118	cycles 1975 Feb. p. 70–79 [1316]
leuterium-labeled proteins, ribosome mapping 1976 July p. 65	dichlorodiphenyltrichloroethane, see: DDT dichroic material, animal navigation, polarized light, Nichol prism,
leuterium synthesis, 'big bang' theory, deuterium-hydrogen rano,	horseshoe crab 1955 July p. 88-94
cosmology, heavy hydrogen, interstellar matter 1974 May p. 108-118	dichromatism, color blindness, sex linked traits, physiology and
leveloped countries, economic development, input-output analysis.	psychology of a vision defect 1951 Mar. p. 48-53
developing countries, complementary economic structures of	Dictyostelium, amoebae, social behavior, slime mold, chemotaxis communication, spatial orientation 1963 Aug. p. 84-93 [164]
developed and underdeveloped countries	communication, spatial orientation 1963 Aug. p. 84-93 [164] acrasin, amoebae, adrenalin, social amoebae, slime mold, cyclic AMP
1963 Sept. p. 148–100 [017]	1969 June p 78–91
demographic transition, human population, birth control, zero	slime mold, acrasin as 'social hormone' 1968 Oct. p. 60
population growth 1974 Sept. p. 100-120 progenitive family, human population, demographic transition	Dictyostelium acrasin, amoebac, social amoebae, slime mold, role of acrasin in cell aggregation 1949 June p. 44-47
1974 Sept. p. 122 10-	acrasin in cell aggregation 1949 June p. 44-47 Dictyostelium cell aggregation, amoebae, cell differentiation, social
labor force, sex role, human population, women's status	amochae slime mold, acrasin 1959 Dec. p. 152-162
	Dicumarol, blood clotting, anticoagulant therapy, thrombus
leveloping countries, Amazon, tropical rain forest, resource prospecting.	1951 Mar. p. 18–21
economic planning, forest management, management, 1948 May p. 11–14	die extrusion, hydrostatic pressure 1969 Oct. p. 49 dieldrin, agricultural pest, fire ants, pest control, insecticide
power, the Amazon months	1958 Mar. p. 36-41
economic development, technical assistance, model 1950 Mar. p. 16–19 four'	the matchelism earshell thinning, pollution, chorinated
	budrocarbons, DDT, avian reproduction, insecticide, food chain,
production. Julian Huxley on world population growth 1956 Mar. p. 64-76 [616]	ecological effect of pesticides 1970 Apr. p. 72–78 [1174]

dielectric mirrors, coated optics, optical interference coatings, light	communication technology, pulse-code modulation, binary arithmetic,
reflection, light transmission, laser, interferometry	television, transmission quality, telephone, AM, FM 1968 Mar р 102–108
1970 Dec p 58–75	diode laser, fiber optics, glass fiber cables, light-emitting diode, light-
dielectric pump, separation of nonconductive liquids 1956 July p 52	wave communication, pulse-code modulation, lightwave telephone
Diesel engine, Carnot cycle, isothermal combustion, automobile engines, Diesel's 'rational' engine 1969 Aug p 108–117	1977 Aug p 40–48 [373]
	communication technology, microelectronics, telecommunication
diet, kwashiorkor, malnutrition, food supply, human nutrition 1954 Dec p 46-50	1977 Sept p 192–209 [382]
fat metabolism, tissue, hormone, obesity, fat tissue, role of fat	digitalis, foxglove, heart physiology, dropsy, digitoxin, cardiac
metabolism in human physiology 1959 Dec p 70–76	insufficiency, history of digitalis 1965 June p 110–119
atherosclerosis, cardiovascular disease, human nutrition, arteries,	neural effects 1975 Dec p 54
epidemiology, cholesterol, coronary occlusion, lipids, plaque, artery	digitonin, mitotic spindle, sea urching egg, chromosome, centrioles
wall 1966 Aug p 48–56	1953 Aug p 53–63
fasting, human nutrition, metabolism, starvation, kwashiorkor,	digitovin, digitalis, foxglove, heart physiology, dropsy, cardiac
marasmus, physiology of starvation 1971 Oct p 14-21 [1232]	insufficiency, history of digitalis 1965 June p 110-119
coprolites, human feces, human nutrition, prehistoric man	digits, Benford's Law, probability, number theory, first-digit distribution
1975 Jan p 100–109 [687]	1969 Dec p 109-120
dietary requirements, amino-acid deficiencies, human nutrition,	dikes, ocean floor, sea-floor spreading, lava, magnetic bands, mid-ocean
metabolism, food and agriculture 1976 Sept p 50-64	ridge, the deep-ocean floor 1969 Sept p 126–142 [883]
difference engine, Babbage, computer, analytical engine, digital	dingo, aborigine, stone tools, Paleolithic man, Tasmanian devil,
computer, life and work of Charles Babbage 1952 Apr p 66-72	Australian aborigine, antiquity of man in Australia
differential topology, mathematics, topology, sphere, torus, everted sphere proof 1966 May p 112-120	l 1966 Mar p 84-93 [628] Dinoflagellata, algal bloom, marine ecology, acetylcholine, nerve poisons,
proof 1966 May p 112-120 diffraction, electron, wave-particle duality, interference fringes, electron	poisonous tide 1958 Aug p 92–98
diffraction, Davisson-Germer experiment 1948 May p 50–53	dinosaur agility 1968 July p 55
atomic microscope, X-ray diffraction 1951 July p 56–57	dinosaurs, reptile, mammalian evolution, paleontology, therapsids,
light, wave-particle duality, optics, interference, electromagnetic waves,	ichthyosaurs, evolution, origin of mammals 1949 Mar p 40–43
photon emission, introduction to single-topic issue on light	birds, ectothermy, endothermy, metabolism, birds descended from
1968 Sept p 50–59	dinosaurs 1975 Apr p 58-78 [916]
gemstones, grain structure, opal colors, periodic structures, silica-	Triassic brownstone 1969 Oct p 50
sphere packing 1976 Apr p 84–95	sauropod habitat 1971 Mar p 48
diffraction grating, spectroscopy, ruling engine, Strong engine, Rowland	diode, solid state physics, transistor, vacuum tube, electronics,
engine, the ultimate machine 1952 June p 45-54	germanium, triode, dawn of solid-state electronics
spectroscopy, Fraunhofer lines, prism, light, Fourier analysis, Girard	1948 Sept p 52-55
grid, interferometry 1968 Sept p 72–82	radio, triode, De Forest, vacuum tube, Marconi, Fleming valve,
more and better from Johns Hopkins 1950 May p 28 diffusion, crystal structure, metallurgy, wandering of atoms in crystal	rectification, De Forest's 1906 contributions 1965 Mar p 92–100 rectification, radio, thermionic tube, Fleming, electron tube, history of
lattice 1957 May p 103–110	science, England, Edison, lamps, Deforest 1969 Mar p 104–112
alloys, metalliding materials technology, surface alloy, molten fluoride,	light-emitting 1962 Sept p 102
electrolysis 1969 Aug p 38–46	diode detector, P-N junction diode technology 1960 Apr p 88
heat, solid state physics, thermal waves, second sound, cryogenics,	diode junction laser, Raman laser effect, gas laser, solid-state lasers, laser
wave propagation, phonon, helium, thermal waves in solid helium	technology in rapid development 1963 July p 34-45 [294]
1970 May p 92–101	diode laser, carrier-wave generator, communication technology, crystal
digestion, enzymes, catalysis, respiration, fermentation, lock-and-key	structure, laser, heterostructure lasers, light-emitting semiconductor,
theory, science history 1948 Dec p 28–39	solid-state electronics 1971 July p 32–40
hydrochloric acid, alcohol, aspirin, stomach mucosa, self-digestion safeguards 1972 Jan p 86-93 [1240]	digital transmission, fiber optics, glass fiber cables, light-emitting
digestive enzymes, carmivorous plants, active trapper, passive trapper,	diode, light-wave communication, pulse-code modulation lightwave telephone 1977 Aug p 40-48 [373]
natural history 1978 Feb p 104–155 [1382]	Diophantine equations, Chinese remainder theory, computability theory,
digger wasp, tarantula, symbiosis, predator-prey relationship	Hilbert program, mathematics 1973 Nov p 84–91
1952 Aug p 20–23	diphtheria antito\in, diphtheria toxin, toxicity, diphtheria toxoid,
digit recall, short-term memory, long-term memory, memory,	cytochrome antagonist 1952 Oct p 32–36
tachistoscope 1966 July p 90–95 [499]	diphtheria toxin, toxicity, diphtheria toxoid, diphtheria antitoxin,
digital computer, computer technology, analogue computer, relay	cytochrome antagonist 1952 Oct p 32–36
computers, binary arithmetic, logic, automatic control, computer memory, control systems, status of 'mathematical machines'	diphtheria toxoid, diphtheria toxin, toxicity, diphtheria antitoxin,
1949 Apr p 28–39	cytochrome antagonist 1952 Oct p 32–36
Babbage, computer, difference engine, analytical engine, life and work	direct-reduction processes, from ore, from melting, sponge from, steel production 1976 July p. 68-80
of Charles Babbage 1952 Apr p 66–72	production 1976 July p 68-80 directional orientation, insect behavior, social insect, animal
computer, automatic control, solid-state electronics, analog-to digital	communication, bee dances, 'language of the bees'
conversion, analogue computer, the universal machine	1948 Aug p 18-21 [21]
1952 Sept p 116–130	deafness ear, hearing cochlea 1957 Aug p 66–78 [44]
electronic typesetting, printing, photographic typesetting, mechanical composition, cathode-ray tube, computer applications	auditory perception, hearing, auditory localization, binaural hearing
1969 May p 60–69	1961 Oct p 132–142 [501]
charge-coupled devices, magnetic bubble memories, moving-surface	bee dances, insect behavior, species specificity, evolution, communication by sound, by dancing 1967 Apr p 96-104 [107]]
memories, semiconductor memories, microelectronics	communication by sound, by dancing 1967 Apr p 96–104 [1071] Antarctica, seal, breathing, breathing holes in ice
1977 Sept p 130-145 [378]	1969 Aug p 100–106 [1156]
digital storage media, information theory, statistics thermodynamics,	disaster psychology, life over property 1952 Mar = 44
noise, redundancy, analogue storage media information compression, automatic control, information 1952 Sept p 132–148	disciplinary distribution, science manpower, labor force, employment by
digital-to-analogue conversion, automatic control, machine tool, batch	sector 1951 Sent n 71 76
process, numerical instructions, automatic machine tool	discritations, atomie structure, crystal structure, dislocations, molecular
1952 Sent n 101 114	Structure, periodic structures 1977 Dec. 2 120 146 (2021)
digital transmission, artificial satellite, communication.	discontinuous phenomena, catastrophe theory, mathematical model, topology
telecommunication, data transmission pulse-code modulation	1976 Apr. p 65–83
1966 Sept p 144-156	

discrimination, social discrimination, group behavior, child development,	diving brady cardia, asphyxia, breathing, respiratory gas exchange, diving
in vs out group discrimination 1970 Nov p. 96_102 15201	mammals, diving birds, hibernation, oxygen storage, selective
uisease, morbidity, archeology, surgery, record of illness among the	ischemia, human physiology, redistribution of oxygenated blood and
ancients 1949 Jan n 52 55	
cholera, plague, yellow lever, epidemiology 1953 Feb n 22 27	diving mammals, asphyxia, breathing, diving bradycardia, respiratory gas
bacterial toxin, choiera, medical care, sanitation, water supply.	
epidemiology 1971 Aug n 15-21	exchange, diving birds, hibernation, oxygen storage, selective
birth control, cellbacy, foundling institutions, infanticide, Malthusian	ischemia, human physiology, redistribution of oxygenated blood and master switch of life. 1963 Dec. p. 92-106
doctrine, marriage age, population growth, population control in	31.1. 1 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Europe 1750-1850 1972 Feb p 92-99 [674]	41. 1 0
antigen variation, medical history, influenza virus, encephalitis,	
pandemics, virus disease, animal vectors, Hong Kong flu, swine flu	diving women, Ama, diving, Korea, Japan, breathing, human physiology
1977 Dec p 88–106 [1375]	basal metabolism, adaptation 1967 May p 34-43
disease etiology, aging, death rate, life expectancy, male female life	divorce, adolescence, family, alienation, racial discrimination, poverty,
expectancy 1958 Feb p 22–27	infant mortality, crime, suicide, drug addiction, changes in American
disease-resistant plants, plant breeding, agronomy, plant disease, fungal	family structure 1974 Aug p 53-61 [561]
infection, plant pathogens, sugarcane, mechanism of disease	DNA: deoxyribonucleic acid
resistance in plants 1975 Jan p 80-88 [1313]	DNA, heredity, chromosome, RNA, nucleoproteins, protein synthesis,
disease vector, bacteria, flies, epidemiology, maggot, dysentery, virology	DNA identified as agent of heredity 1953 Feb p 47-57 [28]
	bacteriophage, genetics, reproduction, tracer experiments, protein coat
dislocations, crystal structure, edge dislocation, soap bubbles, slip planes	1953 May p 36–39
1055 July 20 on too	double helix, X-ray cry stallography, genetic code, structure of DNA
1955 July p 80–87 [204]	resolved 1954 Oct p 54-61 [5]
crystal structure, metals, whiskers, fiber-reinforced, matrix, composite	virus structure, protein 'overcoat' 1954 Dec p 62-70 [32]
materials, two-phase materials 1965 Feb p 28–37	genetic code, codon, amino-acid pairing, RNA, Gamow proposes
corrosion tunnel, stress-corrosion failure, crystal structure, metalliding	triplet codon 1955 Oct p 70–78
1966 Feb p 72-81	bacteria, protein synthesis, genetic code, RNA, protein synthesis by
alloys, materials technology, metals, crystal structure, grain boundaries,	bacterial DNA-RNA in vitro 1956 Mar p 42-46
lattice defects, electron 'gas', nature of metals 1967 Sept p 90-100	RNA, genetic code, chromosome, protein synthesis, polymers,
crystal structure, forging, metal forming, strain hardening, creep in	molecular genetics as of mid-1957 1957 Sept p 188-200 [54]
metals 1975 Apr p 116–125	RNA, protein synthesis, recognition of RNA as transcriber of DNA
atomic structure, crystal structure, disclinations, molecular structure,	1959 Dec p 55-61
periodic structures 1977 Dec p 130–145 [393]	cell nucleus, cytoplasm, cell organelle, chromosome, cell physiology.
disoriented figures, form perception, retinal orientation, visual perception	RNA, endoplasmic reticulum, cytology, nuclear control of cell
1974 Jan p 78-85 [557]	1960 Jan p 126-136
dispersion-strengthened composites, cermets, composite materials, fiber-	ribosome, protein synthesis, mRNA, tRNA, nucleus, chromosome,
reinforced composites, particulates 1973 July p 36-44	cytology, how cells make molecules 1961 Sept p 74-82 [92]
displacement activity, stickleback, courtship display, animal behavior,	gene mapping, chromosome, bacteriophage, mapping genes by induced and spontaneous mutations 1962 Jan p 70-84 [120]
sexual behavior, ethology 1952 Dec p 22-26 [414]	
courtship display, gulls, animal behavior, releaser stimulus, ethology	phage X174, gene mutation, single-stranded DNA 1962 July p 109–116 [128]
1954 Nov p 42–46	1902 July p 107-110 (129)
displacer, cryogenic technology, Stirling cycle, refrigeration, hot-air	genetic code, base triplets, protein synthesis, nucleotide sequence, codon, base triplet established as codon 1962 Oct p 66-74 [123]
engine, closed cycle 1965 Apr p 119–127	codon, base triplet established as codon 1962 Oct p 66-74 [123] antibody production, thymus, immunology, lymphocytes, autoimmune
display devices, liquid crystals, dynamic scattering, storage mode,	
television receiver 1970 Apr p 100–106	disease, thymus role in producing antibodies 1962 Nov p 50-57 [138]
dissociated cells, embryonic development, tissue culture, tissue	ultraviolet radiation, mutation, effects of ultraviolet on weakest links in
differentiation, reassembly of dissociated tissue cells 1959 May p 132-144	chain 1962 Dec p 135–144 [143]
	mRNA, tRNA, genetic code, ribosome, protein synthesis, genetic code
dissolved oxygen, limnology, pond life, plankton, thermocline,	elucidated amino acid 'dictionary' 1963 Mar p 80-94 [153]
hypolimnion, oxidation-reduction balance in depths of a pond 1951 Oct p 68-72	polyribosomes protein synthesis, RNA, ribosome 1963 Dec p 44-53
listance perception, visual perception, 'Ames room', motion perception,	chromosome puffs, insect chromosome, RNA synthesis, hormonal
optical illusion, size perception, illusions as clues to organization of	induction, gene regulation 1964 Apr p 50-58 [180]
	hybrid cells, RNA, ribosomal RNA, gene transcription, gene
perception 1931 Annual P 30–33 listillation, water, desalination, ion exchange, solar still, alternative 27, 45	complement, density-gradient centrifugation, DNA-RNA
technologies 1957 Mar p 37–45	hybridization experiments 1964 May p 48-56
distortion, visual perception, optical illusion, size constancy, pictures as	antibiotics, protein synthesis, streptomycin, genetic code, ribosome
absects allusions arise from normally useful mechanisms	RNA, mutation, 'misreadings' induced by antibiotic alterations of
1968 NOV D 00-70 [317]	ribosomes 1966 Apr p 102–109
listributed-processing networks, computer technology, microelectronics	mathematical model, computer modeling giant molecules, cytochrome
	helix, myoglobin, hemoglobin, molecular modeling
listribution coefficient, materials technology, zone refining, zone melting,	1966 June p 42–52 [1043]
	amino acids protein synthesis, genetic code, mutation molecular biology, triplets, RNA anticodon, ribosomes, triplets wobble
e - M- concern development, injudic classes, population	10110 71 (0.11057)
	hypothesis 1966 Oct p 35-62 [1032] bacteriophage, virus structure, T4 virus, mutation morphogenesis test-
	tube reconstruction of viral components 1967 July p 60–74 [1079]
	leukocyte, nucleus Miescher, spermatozoon nucleus, chromatin,
shelters, decompression, oceanographic exploration 1966 Mar p 24–33 [1036]	hereditary material, discovery of DNA 1968 June p 78–88 [1109]
1900 Mar p 24-55 (1050)	chloroplast, mitochondria, symbiosis cell organelle, prokaryote origin
Ama, diving women, Korea, Japan, breathing, human physiology, basal 1967 May p 34-43	protein synthesis, plastids, cell evolution, extra-nuclear genetic
metabolism, adaptation 1067 Aug = 44	activity in cell 1970 Nov p 22-29 [1203]
prolonged underwater work 1971 Oct p 44	gene mutation, RNA-DNA 'reverse' transfer, cancer virus, DNA
depth limit 1975 Oct p 53	polymerase, RNA-directed DNA polymerase
depth limit	1972 Jan p 24-33 [1239] cell nucleus chromatin, chromosomal proteins gene regulation,
living birds, asphyxia, breathing diving bradycardata tophysical exchange, diving mammals, hibernation, oxygen storage, selective exchange, diving mammals, predictiphytion of oxygenated blood and	histones nucleoproteins oxidative phosphorylation
exchange, diving mammals, hibernation, oxygen stongers and ischema, human physiology, redistribution of oxygenated blood and ischema, human physiology, redistribution of oxygenated blood and ischema, human physiology, redistribution of postports.	1975 Feb p 46-57 [1315]
ischemia, human physiology, realistication 1963 Dec p 92–106 'master switch of life'	
master surren or	

genetic code poliomyelitis virus, protein synthesis, RN	A, virus	malpractice insurance, medical care, medical maipract	nce 976 Aug p 18–23
	5 May p 24–31	doctorates, intellectual resources of U S, college gradual	
E coli, gene structure, nucleotide sequence, viral DNA	, bacteriai virus	doctorates, intellectual resources of O.S., conege gradual	151 Sept p 42–46
	p 54-67 [1374]	Dodgson, mathematics, logic, Carroll, 'Alice in Wonderl	
constant in tissue cells, half as much in egg and sperm of	1040 Mar = 25	Carroll (Charles Lutwidge Dodgson), biography	and, Lewis
	1949 Mar p 25		6 Apr p 116-128
	956 Sept p 114	symbolic logic, barber paradox, mathematics, paradox	
two-part molecular structure	1958 Apr p 50	symbolic logic, barber paradox, mathematics, paradox	972 July p 38–46
synthesis of DNA outside living cell	1958 Nov p 54		
activation of DNA by negative electric charges	1958 Dec p 64	dog, badger, horse, cheetah locomotion, deer, comparat	May p 148–157
mutation mechanism	1961 Apr p 82	e ,	1970 Nov p 46
mRNA, synthesis of RNA	1961 Aug. p 62	cooling by panting	1975 Dec p 50
breaking the code	1962 Mar p 68	oldest known fossil dolorimeter, pain, what is pain?	953 Mar p 59–66
universality of code	1962 July p 76	dolphin, gas exchange in deep diving	1970 Mar p 64
template for all the RNA's	1963 Mar p 76	domed roof, air conditioning, air vent, wind tower, archi-	
how double helix untwists	1963 July p 69	system, passive cooling systems in Iranian architect	
genetic code, codon has three nucleotides	1964 Mar p 54 1968 Feb p 51		p 144-154 [705]
0X174 DNA synthesized		domes, hot spots island arcs, plate tectonics, ocean rifts,	
histone-chromatin scaffold	1975 July p 46 1977 May p 50		ug p 46–57 [920]
phase-shift reading		domestic animals, Macedonia, Nea Nikomedeia, Neolith	
DNA-actinomycin binding, antibiotics, actinomycin, mR	p 82–91 [1303]	figurines, agricultural society, oldest Neolithic site i	
			965 Apr p 82–92
DNA fractionation, gene isolation, ribosome, ribosomal I	p 20–29 [1278]	water buffalo, animal husbandry, agricultural water b	
G	1970 Sept p 82		p 118–125 [1088]
DNA from RNA, RNA-directed DNA polymerase	1970 Nov p 44	donkeys, animal husbandry, mules, horse, genetics and	
'central dogma' restated DNA operator, DNA repressor, gene expression, gene re			p 102–109 [1208]
restriction endonuclease, operator-repressor system	Euration, nost-	dopamine, acetylcholine, adrenalin, catecholamines, drug	
	тр 64-76 [1333]	physiology, neurotransmitters, noradrenaline	5 0.10010, 110.10
DNA polymerase, DNA synthesis, virus - X 174, cell-fre		1 5 65.	ne p 58-71 [1297]
activated nucleotides, first test-tube synthesis of bio	logically active	brain function, cyclic AMP, endocrine system, messen	
	t p 64-78 [1124]	nervous system neurotransmitters, L-DOPA treatm	
DNA, gene mutation, RNA-DNA 'reverse' transfer, c		disease, 'second messengers', brain endocrinology	,
	пр 24–33 [1239]		p 108-119 [1368]
DNA R-factor, bacteria, drug resistance, mutation antib		'doping', junction transistor, germanium crystal, triode	
transferable drug resistance, multiple resistance 19	967 Dec p 19-27		952 July p 28-32
DNA recombination, adenoviruses, cancer virus, SV40 v	ırus, DNA virus,	materials technology, solid state physics, crystal defec	ts epitaxial
gene transformation, tumor-virus antigen, virus etic	ology of cancer	growth, surface chemistry, precipitation in solids, cl	nemical
19	966 Mar p 34–41		Sept p 210-220
DNA repeat segments, evolution, genome size, sDNA, I	NA-RNA	Doppler effect, Mossbauer effect, relativity theory, atom	ic clock,
	or p 24–31 [1173]	resonance absorption general relativity tested by at	
DNA replication, chromosome replication, chromatid, d		1960 A	pr p 72–80 [271]
	June p 36–42 [60]	solar system, astronomical unit, space exploration, Ve	nus probes,
ultraviolet radiation, mutation rate, radiation damage		radar, Earth Sun distance more precisely measured	
	967 Feb p 36–43	atallan estatuan atallan avalutuan annut sana annut sana a	961 Apr p 64-72
aging, fibroblasts mitosis cell culture, somatic cells, o	ar p 32–37 [1103]	stellar rotation, stellar evolution, spectroscopy, violet	
in aging 1968 Ma 'Okazaki fragments'	1968 Aug p 43	correlation of rotational velocity with mass 19 hydroxyl radical, microwaves, galaxy, radio-absorptio	963 Feb p 46–53
DNA repressor, DNA operator, gene expression, gene r			965 July p 26–33
restriction endonuclease, operator-repressor system		planetary motion radar astronomy, delay-Doppler ma	anning Mercury
	in p 64-76 [1333]		968 July p 28–37
DNA-RNA hybridization, DNA repeat segments, evolu-		spectroscopy, red shift, quasars, shell hypothesis, radio	osource
	pr p 24-31 [1173]		970 Dec p 22-29
DNA sequence, bacteria, proteolysis, infection, viral Di		energy levels, gas laser, laser spectroscopy, spectroscop	D)
enzymes bacterial recognition and rejection of exc	tic DNA	19	973 Dec p 69-85
	ıр 88–102 [1167]	Doppler shift, interstellar gas, magnetic field, radio 'phot	tographs'.
DNA structure, protein structure, amino-acid sequence		structured in shells and filaments rather than clouds	s
colinearity, mutation, gene mapping, base 1967 M		1978 Ja	an p 74-84 [394]
DNA synthesis, autoradiography, bacterial chromosom		dormancy, adaptation germination seed dispersal	959 Apr p 75–84
thymine, incorporation in DNA chain, relation of chain 1966 J.		biological clock, circadian rhythm, diapause, insect be	havior, insect
virus ~ X 174, cell free system, DNA polymerase, aci	an p 36-44 [1030]	metabolism photoperiodicity 1976 Feb	p 114–121 [1335]
first test-tube synthesis of biologically active DNA		dormin, auxins, plant growth, cytokinins, plant hormone	s, giberellin
1968 C	oct p 64-78 [1124]	Dorset culture, Arctic, Stone Age hunters, Alaska, Siberi	y p 75-81 [1111]
lac operator, recombinant DNA	1977 Jan p 47	circumpolar Stone Age culture	a, Greenland,
DNA transcription, electron microscopy, gene action vi	sualized,	village in Alaska	954 June p 82–88
ribosome, mRNA 1973 M	[ar p 34-42 [1267]	dosimetry, cancer therapy, isotopes, X-ray, radiotherapy	1954 Sept p 78
process of RNA synthesis	1962 Feb p 76	radiation roentgenology, nuclear medicine, radiatio	on use in
'split' genes	1978 Feb p 76	medicine 1950	Sent n 164 176
DNA virus, adenoviruses, cancer virus SV40 virus, DN	A recombination,	double bind, schizophrenia emotional illness psychoana	licis no chieta
gene transformation tumor-virus antigen virus et		psychosis neurosis, taxonomy of emotional illness	family therapy
Doctor of Philosophy, see Ph D	1966 Mar p 34-41	1062 A	10 n 65 74 (4/0)
doctor-patient relations, medical care, medical jargon	1972 Aug n 66 74	double nelly, DNA, X-ray crystallography, genetic code,	structure of
medical care informed consent medical ethics plac	cbos	DNA resolved 1954	Oct 5 54 61 161
r i princ	1974 Nov p 17-23	chromosome replication DNA replication, chromatid	, micromechanics
	• • •	double stars, see binary stars	une p 36-42 [60]
		omary state	

Douglass dendrochronology squares house, A.F. P.		
Douglass, dendrochronology, science history, A E Douglass and tree-ri- clock 1952 Jan p 54-	50 1970 July	
Down's syndrome, epidemiology, stress, anoxia, pregnancy, trisomy 21	1973 Oct	p 50
chology of Down's syndrome 1957 Feb in 60.	Sharana addition of the state	
chromosomai anomalies, Klinefelter's syndrome, trisom, 21 genetic	drug-effectiveness, evaluation 1966 Aug	
detect, meiosis, mitosis, gene translocation, nondistinction	drug effects, chemotherapy, liver function, pharmacology, vaccine,	p 42
afflictions associated with abnormal chromosome complement	normone, antibiotics, medical care, berbial medicine	
leukemia, leukocyte, cancer, chemotherapy, virus, ionizing radiation,	UI 1973 Sept p 102	-112
origin and treatment of lymphocytic and granulocytic leukemia	acetylcholine, adrenalin, catecholamines, dopamine, nerve physiolo	
1964 May n. 88-9	neurotransmitters, noradrenaline 1974 June p 58-71 [1 drug inactivation, alcohol metabolism, detoxification, enzyme, liver	297]
amniocentesis, enzyme deficiency, genetic disease, prenatal genetic	function, metabolism of drugs, cirrhosis 1975 June p 22-31 [1	3221
diagnosis, hemophilia, Tay-Sachs disease, chromosomal anomalies	drug-induced imagery, central nervous system, hallucination, perceptu	al
partial trisomy 1971 Nov p 34-42 [123-	l] illusions, perceptual-release theory 1977 Oct p 132–140 [579]
fortilers and disc	- Branding pharmaceutical maustry, prostheses, 1 Dri, mean	al
drainage, chinampa, canals, Mexican agriculture, agricultural system,	ocare, medical economics, drug research, medical laboratory servic 1973 Sept p 161-	
Aztec civilization, highly productive farm plots, Aztec empire	FDA wants physician's OK for refills 1949 Aug p	
1964 July p 90~98 [648		
drainage patterns, climatic change, water erosion, rivers, river evolution	uses of tissue culture 1956 Oct p 50	
dreams, psychoanalysis, Freud 1949 May p 44-47 (495		
dreams, psychoanalysis, Freud 1949 May p 44-47 [495 content analysis, 10,000 dreams 1951 May p 60-6		166
sleep, electroencephalography, REM sleep, function of dreams	drug resistance, bacteria, gene transformation, streptomycin,	100
1960 Nov p 82-88 [460	pneumococcus, recombinant DNA, biochemistry of Avery, McLeo	od
sleep research, electroencephalography, reticular formation, brain	and McCarty experiment 1956 Nov p 48-53 [[8]
waves, paradoxical sleep, REM sleep, cat brain, the states of sleep	mutation, penicillin, bacteriology 1961 Mar p 66-	-71
1967 Feb p 62-72 [504]		27
drilling platforms, marine technology, ocean, supertankers, submersibles, containerization, technology and the ocean	resistance, multiple resistance 1967 Dec p 19- antibiotic resistance, bacteria, infectious disease, gene mutation	21
1969 Sept p 198–217 [887]	plasmids. Rh factor, bacterial conjugation	
drip irrigation, irrigation, trickle irrigation, agricultural technology	1973 Apr p 18–27 [126	59]
1977 Nov p 62-68 [1371]	drug therapy, fatty acids, feedback, hormone-like substances, nervous	251
droplet-levitation technique, cavitation, liquids, negative-pressure	system, prostaglandin 1971 Nov p 84-92 [123 drugs, tuberculosis, facilitate surgery 1954 Sept p	80 80
concept, tensile strength, surface tension 1972 Dec p 58-71 dropsy, digitalis, foxglove, heart physiology, digitoxin, cardiac	drugs, tuberculosis, facilitate surgery 1954 Sept p of Druid holiday, Halloween, anthropology 1951 Oct p 62-4	56
insufficiency, history of digitalis 1965 June p 110–119	drums. African drum language, communication, gong language, talking	
Drosophila, population genetics, evolution, E coli, mutation, sexual	drums 1971 Dec p 90-3) 4
recombination, speciation, natural selection, genetic basis of	drunkeness, alcoholism, metabolism, physiological individuality conditions effect of alcohol 1948 Dec p 50-5	3
evolution 1950 Jan p 32-41 [6] drought, dust storms, dry-land farming, soil reclamation, agricultural	dry ice, weather control, cloud seeding, silver iodide, Project Circus,	
technology, mulch, shelter belts, U.S. High Plains 1948	condensation nuclei 1952 Jan p 17-2	1
1948 Aug p 7–11	dry ice fogs, Mars, Martian atmosphere, dust storms, wind erosion,	2
drug abuse, metabolism, alcohol tolerance, liver function, acetaldehyde	Mariner voyages 1977 July p 34-4	,
1953 Dec p 86–90	dry-land farming, dust storms, drought, soil reclamation, agricultural technology, mulch, shelter belts, U.S. High Plains 1948	
Cannabis sativa, marijuana, consciousness, pharmacology, sociology 1969 Dec p 17-25 [524]	1948 Aug p 7-1	l
Imag action, ender webs animal behavior, abnormal behavior	dust storms, Great Plains, marginal farmlands, wind erosion,	0
1954 Dec p 80-86	agricultural technology 1954 July p 25-25 dual-resonance model, high-energy physics, hadrons, high-tenny,	•
chelation, hemochromatosis, lead poisoning, pharmacology, Wilson's	quark, strong interactions 1975 Feb p 61-67	t
disease, metal poisoning, heavy metal poisoning, bone cancer, salicylates, aspirin, cancer therapy, chemotherapy, medical	Dublin Institute for Advanced Study, high-energy physics, report on a visit	ľ
exploitation of chelates 1966 May p 40-50	by Leopold Infeld 1949 Oct p 11-15	
analgesics, morphine, opium, poppy, heroin, codeine, Bentley's	duck-billed platypus, lactogenesis, isotope tracing, milk, mammal, synthesis of milk 1957 Oct p 121-128	,
compound, search for strong, safe analgesic 1966 Nov p 131-136 [304]	ducks, animal behavior, imprinting, auditory interaction	
to the function drug addiction endodorphins, enkephalins, internal	1972 Aug p 24-31 [546]	
oniates oniate receptors, brain endocrinology 1977 Mar p 44-30	duckweed, leaf shape, aging, systematic study of familiar amateur observation 1949 Oct p 22-24	
handracturity 1974 July p 47	observation 1949 Oct p 22-23 ducted fan, gas turbine, aircraft propulsion, centrifugal compressor, axia	
lrug addiction, narcotics, withdrawal syndrome, rats and monkeys, lrug addiction, narcotics, withdrawal syndrome, rats and monkeys, 1964 Mar p 46–52 [178]	flow compressor, electric power generation 1953 Nov p 65-12	
voluntary self-injection 1964 Mar p 46-32 [176] alkaloids, hallucinogens, mental health, consciousness alteration, LSD,	ductility, materials technology, steel, transformation-induced plasticity,	
	strength 1968 Nov p 36-45 ductus arteriosus, cardiology, Fallot tetralogy, cardiovascular surgery	
1904 Apr p 25-27 [190]	1950 Jan p 14-17	
morphine, opiate-directed behavior, withdrawal syndrome, self- 1965 Feb p 80-88	dung beetles, beetle, cattle, coprid beetles 1974 Apr p 100-109	
addiction in rat	Dunkers, genetic drift, endogamous group, ear lobes blood typing 'hitch luker's' thumb 1953 Aug p 76-81 [1062]	
medical history, morphine, hypoderital medical history, morphine addiction 1971 Jan p 96–102 morphine addiction	'hitch hiker's' thumb 1953 Aug p 76-81 [1002] Durer, projective geometry, Renaissance paintings, Leonardo Desargue's	
	theorem Pascal's theorem mathematics projective geometry as	
infant mortality, crime, suicide, changes 1974 Aug p 53-61 [561]	systematized by Poncelet and Klein 1955 Jan p 80-86	
structure drug action, endodorphins, enkephalins, internal	Durham rule, criminal law, expert witnesses, insanity defense M'Naghten rule psychiatrists as witnesses 1974 June p 18-23	
	dust, climate volcanoes solar radiation world climate and volcanic	
emotional illness, community mental-heard control of the emotionally ill	20tuaty 1952 Apr p 74-80 [843]	
psychoactive drugs, demistrationalization 1978 Feb p 46-53 [581]	dust cloud hypothesis, solar system Sun, cosmology, gravity, light pressure, gravitational collapse, thermonuclear reaction, genesis of	
1949 Feb p 29	hieraria Burning	

heroin on increase

hinger stars photophoresis gravitational	1948 May p 35-45	aurora, airglow, corpuscular streams, solar spic	
Ulitary stars, photophoresis, gravitariona	collapse, element abundance,	and airglow geomagnetism, remanent magnetism, wanderii	1955 Sept p 140–150
angular momentum, origin of the Earth	1952 Oct p 53–61 [833]	reversals, Earth's magnetism	1955 Sept p 152–162
scenario refined	1949 Dec p 29	ocean circulation, gyres, wind, upwelling, the c	
dust clouds, Milky Way, nebulae, globular cl galactic center, seeing a galaxy from the	inside 1950 Feb n 30-39	ocomi onominion, gj. 10, mars, sp. 1111.	1955 Sept p 96-104
dust storms, drought, dry-land farming, soil	reclamation, agricultural	atmospheric tides, ozone, ultraviolet radiation,	, ultraviolet-radiation
technology, mulch, shelter belts, US H	ligh Plains 1948	hypothesis	1962 Dec p 48–55
	1948 Aug p 7-11	tektites, meteorites, moon moon as source of t	
air pollution, catalysis, combustibility, fly	ash, metallurgy, fine	orbital motion, stellar aberration, Gamma Dra	1964 Feb p 50–57
particles dry-land farming, Great Plains, marginal	1950 Dec p 50-53	stellar aberration by James Bradley	1964 Mar p 100–108
agricultural technology	1954 July p 25-29	artificial satellite, orbital motion, geoid, equato	•
Mars, terrestrial planets, cratering tecton			1967 Oct p 67-76 [873]
formation, erosion, hydrology, solar sy	stem 1975 Sept p 106–117	biosphere, evolution, photosynthesis, environn	nent, atmosphere-
sand dune classification, haboob, soil ero	sion 1976 Oct p 108–114	hydrosphere cycles, introduction to single-to	opic issue on biosphere 970 Sept p 44–53 [1188]
Mars, Martian atmosphere, dry ice fogs, v	wind erosion, Mariner Voyages 1977 July p 34-43	planets, solar system, Venus, cratering, Venuti	
Dutch elm disease, an antidote	1952 Feb p 38	planets, some system, remain extremely, remain	1975 Sept p 70–78
dwarf stars, degenerate gas, gravitational co		geoid, gravitation anomalies, Vening-Meinesz	
stars, 'dying' stars	1959 Jan p 46–53	gravity	1955 Sept p 164 [812]
globular cluster stars, H-R diagram, spec	troscopy, stellar evolution,	magnetism, decreasing strength of magnetic fie	
subdwarf stars bluer because poorer in	heavy elements 1961 June p 111–120	age of Earth's 4,5 billion-year-old rocks ellipticity of equator	1960 May p 95 1961 Apr p 75
dwarfism, ateliosis, midgets, pituitary insuf		natural satellites	1961 Aug p 71
congenital anomalies, consanguinity, g	growth hormone deficiency,	sedimentary to metamorphic transition	1963 May p 75
panhypopituitarism, General Tom Th	umb 1967 July p 102-110	Lunar Orbiter I photograph from moon	1966 Oct p 42
ACTH, child development, emotional de	privation, growth hormone,	Earth age, 45 billion years	1954 Jan p 40
deprivation dwarfism, 'bone age', anor	1972 July p 76–82 [1253]	Earth atmosphere, Aerobee-H1 rocket data Earth core, geology, seismology, Earth science, so	1961 Aug p 64
dye, science history, mauveine, coal-tar che	emistry, 'Perkin reaction'	geochronology, ocean floor, geology 1900-19	
biography of William Perkin	1957 Feb p 110-117	Earth heat, Earth mantle, convection currents,	, heat flow, radioactivity
light-matter interaction, photochemistry	, flash photolysis, ultraviolet		1950 Dec p 54-57
light, photolysis triplet state, photore		Earth mantle, earthquakes, seismology, the int	terior of the Earth 1955 Sept p 56–61 [804]
dynamic scattering, liquid crystals, display	1968 Sept p 158–170 devices, storage mode.	geomagnetism, geophysics, electromagnetism,	,
television receiver	1970 Apr p 100-106	convection currents, origin of terrestial mag	
dynamo, electromagnetic induction, science	e history, Faraday to dynamo	and and a surran are the street and the	1958 May p 44-48
	1961 May p 107-116	earthquakes, seismic waves, Earth mantle, low	
disenters bacteria flies enidemiology ma	aggot, virology, disease vector	elucidate Earth structure 19	59 Mar n 131–143 (827)
dysentery, bacteria, flies, epidemiology, ma	1965 July p 92–99	elucidate Earth structure 19 electromagnetic waves, micropulsations, magn	59 Mar p 131–143 [827] netic field, Earth mantle,
dyslexia, visual perception, bilingualism, e	1965 July p 92–99 Se movement, grammatical	electromagnetic waves, micropulsations, magn longest electromagnetic wave	netic field, Earth mantle, 1962 Mar p 128-137
	1965 July p 92-99 eye movement, grammatical on of words	electromagnetic waves, micropulsations, magn longest electromagnetic wave iron-nickel alloy, high pressure technology, X-	netic field, Earth mantle, 1962 Mar p 128-137 ray diffraction,
dyslexia, visual perception, bilingualism, e	1965 July p 92–99 Se movement, grammatical	electromagnetic waves, micropulsations, magn longest electromagnetic wave	netic field, Earth mantle, 1962 Mar p 128–137 ray diffraction, ffraction patterns of iron
dyslexia, visual perception, bilingualism, e	1965 July p 92-99 eye movement, grammatical on of words	electromagnetic waves, micropulsations, magn longest electromagnetic wave iron-nickel alloy, high pressure technology, X- crystallography, core studies by analogy, dif alloys earthquakes underground nuclear explosions,	netic field, Earth mantle, 1962 Mar p 128–137 -ray diffraction, ffraction patterns of iron 1965 June p 100–108 - seismic waves, fine
dyslexia, visual perception, bilingualism, e relations, language, reading, perception	1965 July p 92-99 eye movement, grammatical on of words	electromagnetic waves, micropulsations, magn longest electromagnetic wave iron-nickel alloy, high pressure technology, X- crystallography, core studies by analogy, dif alloys earthquakes underground nuclear explosions, structure of Earth's interior, core within cor	netic field, Earth mantle, 1962 Mar p 128–137 -ray diffraction, ffraction patterns of iron 1965 June p 100–108 - seismic waves, fine
dyslexia, visual perception, bilingualism, e	1965 July p 92-99 eye movement, grammatical on of words	electromagnetic waves, micropulsations, magn longest electromagnetic wave iron-nickel alloy, high pressure technology, X-crystallography, core studies by analogy, difalloys earthquakes underground nuclear explosions, structure of Earth's interior, core within cor	netic field, Earth mantle, 1962 Mar p 128–137 -ray diffraction, ffraction patterns of iron 1965 June p 100–108 - seismic waves, fine e 1973 Mar p 24–33 [906]
dyslexia, visual perception, bilingualism, e relations, language, reading, perception E E. Coli: Escherichia coli	1965 July p 92–99 sye movement, grammatical on of words 1972 July p 84–91 [545]	electromagnetic waves, micropulsations, magn longest electromagnetic wave iron-nickel alloy, high pressure technology, X-crystallography, core studies by analogy, difalloys earthquakes underground nuclear explosions, structure of Earth's interior, core within cor Earth heat, heat flow, plate tectonics	netic field, Earth mantle, 1962 Mar p 128–137 -ray diffraction, ffraction patterns of iron 1965 June p 100–108 .seismic waves, fine e 1973 Mar p 24–33 [906] 1977 Aug p 60–76 [927]
dyslexia, visual perception, bilingualism, e relations, language, reading, perception E E. Coli: Escherichia coli E. coli, population genetics, evolution, Dr	1965 July p 92–99 sye movement, grammatical on of words 1972 July p 84–91 [545]	electromagnetic waves, micropulsations, magn longest electromagnetic wave iron-nickel alloy, high pressure technology, X-crystallography, core studies by analogy, difalloys earthquakes underground nuclear explosions, structure of Earth's interior, core within cor Earth heat, heat flow, plate tectonics Earth crust, mountain formation, isostasis, graniocean floor, tectonic processes, comprehens	netic field, Earth mantle, 1962 Mar p 128–137 -ray diffraction, ffraction patterns of iron 1965 June p 100–108 - seismic waves, fine re 1973 Mar p 24–33 [906] 1977 Aug p 60–76 [927] tization, ocean basins,
dyslexia, visual perception, bilingualism, e relations, language, reading, perception E. Coli: Escherichia coli E. coli, population genetics, evolution, Dr recombination, speciation, natural se	1965 July p 92–99 tye movement, grammatical on of words 1972 July p 84–91 [545] tosophila, mutation, sexual election, genetic basis of	electromagnetic waves, micropulsations, magn longest electromagnetic wave iron-nickel alloy, high pressure technology, X-crystallography, core studies by analogy, difalloys earthquakes underground nuclear explosions, structure of Earth's interior, core within cor Earth heat, heat flow, plate tectonics Earth crust, mountain formation, isostasis, grani	netic field, Earth mantle, 1962 Mar p 128–137 ray diffraction, ffraction patterns of iron 1965 June p 100–108 is seismic waves, fine the 1973 Mar p 24–33 [906] 1977 Aug p 60–76 [927] tization, ocean basins, ive review of ental drift)
dyslexia, visual perception, bilingualism, e relations, language, reading, perception E. Coli: Escherichia coli E. coli, population genetics, evolution, Driecombination, speciation, natural se evolution	1965 July p 92–99 tye movement, grammatical on of words 1972 July p 84–91 [545] tosophila, mutation, sexual election, genetic basis of 1950 Jan p 32–41 [6]	electromagnetic waves, micropulsations, magn longest electromagnetic wave iron-nickel alloy, high pressure technology, X-crystallography, core studies by analogy, difalloys earthquakes underground nuclear explosions, structure of Earth's interior, core within core Earth heat, heat flow, plate tectonics Earth crust, mountain formation, isostasis, graniocean floor, tectonic processes, comprehens understanding (before acceptance of continuous processes).	netic field, Earth mantle, 1962 Mar p 128–137 -ray diffraction, ffraction patterns of iron 1965 June p 100–108 seismic waves, fine e 1973 Mar p 24–33 [906] 1977 Aug p 60–76 [927] tization, ocean basins, ive review of ental dnft) 1950 May p 32–41
dyslexia, visual perception, bilingualism, e relations, language, reading, perception E. Coli: Escherichia coli E. coli, population genetics, evolution, Dr recombination, speciation, natural se	1965 July p 92–99 tye movement, grammatical on of words 1972 July p 84–91 [545] tosophila, mutation, sexual election, genetic basis of 1950 Jan p 32–41 [6]	electromagnetic waves, micropulsations, magn longest electromagnetic wave iron-nickel alloy, high pressure technology, X-crystallography, core studies by analogy, did alloys earthquakes underground nuclear explosions, structure of Earth's interior, core within core Earth heat, heat flow, plate tectonics Earth crust, mountain formation, isostasis, graniocean floor, tectonic processes, comprehens understanding (before acceptance of continuon continental evolution, volcanoes, island arcs, such continents	netic field, Earth mantle, 1962 Mar p 128–137 aray diffraction, ffraction patterns of iron 1965 June p 100–108 assisting waves, fine e 1973 Mar p 24–33 [906] 1977 Aug p 60–76 [927] tization, ocean basins, are review of ental drift) 1950 May p 32–41 sedimentation, origin of 1955 Sept p 62–66 [816]
dyslexia, visual perception, bilingualism, e relations, language, reading, perception E. Coli: Escherichia coli E. coli, population genetics, evolution, Driecombination, speciation, natural se evolution evolution evolution, penicillin resistance, mutation DNA, gene structure, nucleotide sequential	1965 July p 92–99 sye movement, grammatical on of words 1972 July p 84–91 [545] cosophila, mutation, sexual election, genetic basis of 1950 Jan p 32–41 [6] on rate, evolution observed 1953 Oct p 78–83 nce, viral DNA, bacterial virus	electromagnetic waves, micropulsations, magn longest electromagnetic wave iron-nickel alloy, high pressure technology, X-crystallography, core studies by analogy, did alloys earthquakes underground nuclear explosions, structure of Earth's interior, core within core Earth heat, heat flow, plate tectonics Earth crust, mountain formation, isostasis, graniocean floor, tectonic processes, comprehens understanding (before acceptance of continuous continental evolution, volcanoes, island arcs, such continents	netic field, Earth mantle, 1962 Mar p 128–137 aray diffraction, ffraction patterns of iron 1965 June p 100–108 assisting waves, fine e 1973 Mar p 24–33 [906] 1977 Aug p 60–76 [927] tization, ocean basins, are review of ental drift) 1950 May p 32–41 sedimentation, origin of 1955 Sept p 62–66 [816] at Cedros
dyslexia, visual perception, bilingualism, e relations, language, reading, perception E E. Coli: Escherichia coli E. coli, population genetics, evolution, Driecombination, speciation, natural se evolution evolution evolution, penicillin resistance, mutation DNA, gene structure, nucleotide sequenoximation	1965 July p 92–99 tye movement, grammatical on of words 1972 July p 84–91 [545] cosophila, mutation, sexual election, genetic basis of 1950 Jan p 32–41 [6] on rate, evolution observed 1953 Oct p 78–83 nce, viral DNA, bacterial virus 1977 Dec p 54–67 [1374]	electromagnetic waves, micropulsations, magn longest electromagnetic wave iron-nickel alloy, high pressure technology, X-crystallography, core studies by analogy, did alloys earthquakes underground nuclear explosions, structure of Earth's interior, core within core Earth heat, heat flow, plate tectonics Earth crust, mountain formation, isostasis, graniocean floor, tectonic processes, comprehens understanding (before acceptance of contine continental evolution, volcanoes, island arcs, since continents Pacific Ocean, Acapulco trench, Tonga Trench Trough ocean floor	netic field, Earth mantle, 1962 Mar p 128–137 ray diffraction, ffraction patterns of iron 1965 June p 100–108, seismic waves, fine recommendation of the seismic waves, fine recommendation, organ basins, into review of ental drift) 1950 May p 32–41 redumentation, origin of 1955 Sept p 62–66 [816] in, Cedros 1955 Nov. p 36–41 [814]
dyslexia, visual perception, bilingualism, e relations, language, reading, perception E. Coli: Escherichia coli E. coli, population genetics, evolution, Driecombination, speciation, natural se evolution evolution evolution, penicillin resistance, mutation DNA, gene structure, nucleotide sequential	1965 July p 92–99 tye movement, grammatical on of words 1972 July p 84–91 [545] cosophila, mutation, sexual election, genetic basis of 1950 Jan p 32–41 [6] on rate, evolution observed 1953 Oct p 78–83 nce, viral DNA, bacterial virus 1977 Dec p 54–67 [1374]	electromagnetic waves, micropulsations, magn longest electromagnetic wave iron-nickel alloy, high pressure technology, X-crystallography, core studies by analogy, did alloys earthquakes underground nuclear explosions, structure of Earth's interior, core within core Earth heat, heat flow, plate tectonics Earth crust, mountain formation, isostasis, graniocean floor, tectonic processes, comprehens understanding (before acceptance of continuction continental evolution, volcanoes, island arcs, sthe continents Pacific Ocean, Acapulco trench, Tonga Trench Trough ocean floor isotope dating, radioactive decay, solar system	netic field, Earth mantle, 1962 Mar p 128–137 -ray diffraction, ffraction patterns of iron 1965 June p 100–108 -seismic waves, fine re 1973 Mar p 24–33 [906] -1977 Aug p 60–76 [927]
dyslexia, visual perception, bilingualism, e relations, language, reading, perception E E. Coli: Escherichia coli E. coli, population genetics, evolution, Driecombination, speciation, natural se evolution evolution evolution, penicillin resistance, mutation DNA, gene structure, nucleotide sequeiox 174 plus-and-minus method ear, deafness, directional orientation, hear human anatomy, sensory perception in	osophila, mutation, sexual election, genetic basis of 1950 Jan p 32–41 [6] on rate, evolution observed 1953 Oct p 78–83 nice, viral DNA, bacterial virus 1977 Dec p 54–67 [1374] ring cochlea 1957 Aug p 66–78 [44] europsychology, eye, Descartes,	electromagnetic waves, micropulsations, magn longest electromagnetic wave iron-nickel alloy, high pressure technology, X-crystallography, core studies by analogy, did alloys earthquakes underground nuclear explosions, structure of Earth's interior, core within core Earth heat, heat flow, plate tectonics Earth crust, mountain formation, isostasis, grain ocean floor, tectonic processes, comprehens understanding (before acceptance of continuous continental evolution, volcanoes, island arcs, since continents Pacific Ocean, Acapulco trench, Tonga Trench Trough ocean floor isotope dating, radioactive decay, solar system age of solar system Mohorovicic discontinuity, Mohole, Earth ma	netic field, Earth mantle, 1962 Mar p 128–137 Tray diffraction, ffraction patterns of iron 1965 June p 100–108 Is seismic waves, fine e 1973 Mar p 24–33 [906] 1977 Aug p 60–76 [927] Itization, ocean basins, ive review of ental dnft) 1950 May p 32–41 Sedimentation, origin of 1955 Sept p 62–66 [816] I, Cedros 1955 Nov p 36–41 [814] I, meteorites, 1957 Apr p 80–94 [102]
dyslexia, visual perception, bilingualism, e relations, language, reading, perception E E. Coli: Escherichia coli E. coli, population genetics, evolution, Driecombination, speciation, natural se evolution evolution evolution, penicillin resistance, mutation DNA, gene structure, nucleotide sequenoximation oximation oximation oximation, head	1965 July p 92–99 tye movement, grammatical on of words 1972 July p 84–91 [545] cosophila, mutation, sexual election, genetic basis of 1950 Jan p 32–41 [6] on rate, evolution observed 1953 Oct p 78–83 nice, viral DNA, bacterial virus 1977 Dec p 54–67 [1374] ring cochlea 1957 Aug p 66–78 [44] europsychology, eye, Descartes, on, mechanistic hypothesis	electromagnetic waves, micropulsations, magn longest electromagnetic wave iron-nickel alloy, high pressure technology, X-crystallography, core studies by analogy, did alloys earthquakes underground nuclear explosions, structure of Earth's interior, core within core Earth heat, heat flow, plate tectonics. Earth crust, mountain formation, isostasis, graniocean floor, tectonic processes, comprehens understanding (before acceptance of continuous continental evolution, volcanoes, island arcs, so the continents. Pacific Ocean, Acapulco trench, Tonga Trench Trough ocean floor isotope dating, radioactive decay, solar system age of solar system. Mohorovicic discontinuity, Mohole, Earth maiobjectives of Mohole Project	netic field, Earth mantle, 1962 Mar p 128–137 Tray diffraction, ffraction patterns of iron 1965 June p 100–108 The seismic waves, fine e 1973 Mar p 24–33 [906] The seismic waves, fine e 1977 Aug p 60–76 [927] To tization, ocean basins, ive review of ental drift) The seismic waves of ental drift of 1950 May p 32–41 The seigmentation, origin of 1955 Sept p 62–66 [816] The cedros 1955 Nov p 36–41 [814] The seigment of 1955 Apr p 80–94 [102] The seigment of 1959 Apr p 41–49
dyslexia, visual perception, bilingualism, e relations, language, reading, perception E. Coli: Escherichia coli E. coli, population genetics, evolution, Driecombination, speciation, natural se evolution evolution evolution encolution, penicillin resistance, mutation DNA, gene structure, nucleotide sequein 0×174 plus-and-minus method ear, deafness, directional orientation, heat human anatomy, sensory perception in 17th c approach to human perception	1965 July p 92–99 cye movement, grammatical on of words 1972 July p 84–91 [545] cosophila, mutation, sexual election, genetic basis of 1950 Jan p 32–41 [6] on rate, evolution observed 1953 Oct p 78–83 nice, viral DNA, bacterial virus 1977 Dec p 54–67 [1374] ring cochlea 1957 Aug p 66–78 [44] europsychology, eye, Descartes, on, mechanistic hypothesis 1964 May p 108–116 [184]	electromagnetic waves, micropulsations, magn longest electromagnetic wave iron-nickel alloy, high pressure technology, X-crystallography, core studies by analogy, did alloys earthquakes underground nuclear explosions, structure of Earth's interior, core within core Earth heat, heat flow, plate tectonics Earth crust, mountain formation, isostasis, grain ocean floor, tectonic processes, comprehens understanding (before acceptance of continuous continental evolution, volcanoes, island arcs, since continents Pacific Ocean, Acapulco trench, Tonga Trench Trough ocean floor isotope dating, radioactive decay, solar system age of solar system Mohorovicic discontinuity, Mohole, Earth ma	netic field, Earth mantle, 1962 Mar p 128–137 -ray diffraction, ffraction patterns of iron 1965 June p 100–108 - seismic waves, fine e 1973 Mar p 24–33 [906] 1977 Aug p 60–76 [927] tization, ocean basins, ive review of ental drift) 1950 May p 32–41 sedimentation, origin of 1955 Sept p 62–66 [816] in, Cedros 1955 Nov p 36–41 [814] in, meteorites, 1957 Apr p 80–94 [102] intle, technology, 1959 Apr p 41–49 concentration of metals
dyslexia, visual perception, bilingualism, e relations, language, reading, perception E E. Coli: Escherichia coli E. coli, population genetics, evolution, Driecombination, speciation, natural se evolution evolution evolution, penicillin resistance, mutation DNA, gene structure, nucleotide sequenox 174 plus-and-minus method ear, deafness, directional orientation, heat human anatomy, sensory perception in 17th capproach to human perception ear lobes, Dunkers, genetic drift, endogare thich-hiker's' thumb	1965 July p 92–99 tye movement, grammatical on of words 1972 July p 84–91 [545] cosophila, mutation, sexual election, genetic basis of 1950 Jan p 32–41 [6] on rate, evolution observed 1953 Oct p 78–83 nice, viral DNA, bacterial virus 1977 Dec p 54–67 [1374] ring cochlea 1957 Aug p 66–78 [44] europsychology, eye, Descartes, on, mechanistic hypothesis 1964 May p 108–116 [184] mous group, blood typing, 1953 Aug. p 76–81 [1062]	electromagnetic waves, micropulsations, magn longest electromagnetic wave iron-nickel alloy, high pressure technology, X-crystallography, core studies by analogy, did alloys earthquakes underground nuclear explosions, structure of Earth's interior, core within core Earth heat, heat flow, plate tectonics Earth crust, mountain formation, isostasis, grain ocean floor, tectonic processes, comprehens understanding (before acceptance of continuous continental evolution, volcanoes, island arcs, so the continents Pacific Ocean, Acapulco trench, Tonga Trench Trough ocean floor isotope dating, radioactive decay, solar system age of solar system Mohorovicic discontinuity, Mohole, Earth ma objectives of Mohole Project mining, metal ores, natural resources, natural of	netic field, Earth mantle, 1962 Mar p 128–137 -ray diffraction, ffraction patterns of iron 1965 June p 100–108 -seismic waves, fine re 1973 Mar p 24–33 [906] -1977 Aug p 60–76 [927]
dyslexia, visual perception, bilingualism, e relations, language, reading, perception E E. Coli: Escherichia coli E. coli, population genetics, evolution, Driecombination, speciation, natural se evolution evolution evolution, penicillin resistance, mutation DNA, gene structure, nucleotide sequenox 174 plus-and-minus method ear, deafness, directional orientation, heat human anatomy, sensory perception in 17th capproach to human perception ear lobes, Dunkers, genetic drift, endogate thitch-hiker's' thumb	1965 July p 92–99 tye movement, grammatical on of words 1972 July p 84–91 [545] tosophila, mutation, sexual election, genetic basis of 1950 Jan p 32–41 [6] on rate, evolution observed 1953 Oct p 78–83 nice, viral DNA, bacterial virus 1977 Dec p 54–67 [1374] ring cochlea 1957 Aug p 66–78 [44] europsychology, eye, Descartes, on, mechanistic hypothesis 1964 May p 108–116 [184] mous group, blood typing, 1953 Aug. p 76–81 [1062] guage language diffusion,	electromagnetic waves, micropulsations, magn longest electromagnetic wave iron-nickel alloy, high pressure technology, X-crystallography, core studies by analogy, did alloys earthquakes underground nuclear explosions, structure of Earth's interior, core within core Earth heat, heat flow, plate tectonics Earth crust, mountain formation, isostasis, grani ocean floor, tectonic processes, comprehens understanding (before acceptance of continuous continental evolution, volcanoes, island arcs, since continents Pacific Ocean, Acapulco trench, Tonga Trench Trough ocean floor isotope dating, radioactive decay, solar system age of solar system Mohorovicic discontinuity, Mohole, Earth ma objectives of Mohole Project mining, metal ores, natural resources, natural earthquake prediction laser, strain gauge, interior alloys alloys.	netic field, Earth mantle, 1962 Mar p 128–137 -ray diffraction, ffraction patterns of iron 1965 June p 100–108 -seismic waves, fine e 1973 Mar p 24–33 [906] 1977 Aug p 60–76 [927]
dyslexia, visual perception, bilingualism, e relations, language, reading, perception E. Coli: Escherichia coli E. coli, population genetics, evolution, Driecombination, speciation, natural se evolution evolution evolution, penicillin resistance, mutation DNA, gene structure, nucleotide sequein 0×174 plus-and-minus method ear, deafness, directional orientation, heat human anatomy, sensory perception in 17th c approach to human perceptice ear lobes, Dunkers, genetic drift, endogate thich-hiker's' thumb Early Iron Age culture, Africa, Bantu languistics	1965 July p 92–99 cye movement, grammatical on of words 1972 July p 84–91 [545] cosophila, mutation, sexual election, genetic basis of 1950 Jan p 32–41 [6] on rate, evolution observed 1953 Oct p 78–83 nice, viral DNA, bacterial virus 1977 Dec p 54–67 [1374] ring cochlea 1957 Aug p 66–78 [44] europsychology, eye, Descartes, on, mechanistic hypothesis 1964 May p 108–116 [184] mous group, blood typing, 1953 Aug. p 76–81 [1062] guage language diffusion, 1977 Apr p 106–114	electromagnetic waves, micropulsations, magn longest electromagnetic wave iron-nickel alloy, high pressure technology, X-crystallography, core studies by analogy, did alloys earthquakes underground nuclear explosions, structure of Earth's interior, core within core Earth heat, heat flow, plate tectonics Earth crust, mountain formation, isostasis, graniocean floor, tectonic processes, comprehens understanding (before acceptance of continuous continental evolution, volcanoes, island arcs, since continents Pacific Ocean, Acapulco trench, Tonga Trench Trough ocean floor isotope dating, radioactive decay, solar system age of solar system Mohorovicic discontinuity, Mohole, Earth ma objectives of Mohole Project mining, metal ores, natural resources, natural earthquake prediction laser, strain gauge, intercontinental drift, plate tectonics, scaling, subdictional alloys.	netic field, Earth mantle, 1962 Mar p 128–137 -ray diffraction, ffraction patterns of iron 1965 June p 100–108 -seismic waves, fine e 1973 Mar p 24–33 [906] 1977 Aug p 60–76 [927]
dyslexia, visual perception, bilingualism, e relations, language, reading, perception E E. Coli: Escherichia coli E. coli, population genetics, evolution, Driecombination, speciation, natural se evolution evolution evolution, penicillin resistance, mutation DNA, gene structure, nucleotide sequenox 174 plus-and-minus method ear, deafness, directional orientation, heat human anatomy, sensory perception in 17th capproach to human perception ear lobes, Dunkers, genetic drift, endogate thitch-hiker's' thumb	1965 July p 92–99 type movement, grammatical on of words 1972 July p 84–91 [545] To sophila, mutation, sexual election, genetic basis of 1950 Jan p 32–41 [6] on rate, evolution observed 1953 Oct p 78–83 nce, viral DNA, bacterial virus 1977 Dec p 54–67 [1374] ring cochlea 1957 Aug p 66–78 [44] europsychology, eye, Descartes, on, mechanistic hypothesis 1964 May p 108–116 [184] mous group, blood typing, 1953 Aug. p 76–81 [1062] guage language diffusion, 1977 Apr p 106–114 incities of motion, Milankoyitch	electromagnetic waves, micropulsations, magn longest electromagnetic wave iron-nickel alloy, high pressure technology, X-crystallography, core studies by analogy, did alloys earthquakes underground nuclear explosions, structure of Earth's interior, core within core Earth heat, heat flow, plate tectonics Earth crust, mountain formation, isostasis, graniocean floor, tectonic processes, comprehens understanding (before acceptance of continuous continental evolution, volcanoes, island arcs, since the continents Pacific Ocean, Acapulco trench, Tonga Trench Trough ocean floor isotope dating, radioactive decay, solar system age of solar system Mohorovicic discontinuity, Mohole, Earth matobjectives of Mohole Project mining, metal ores, natural resources, natural earthquake prediction laser, strain gauge, intercontinental drift, plate tectonics, scaling, subdispreading Trassic period, Pangaea, comput	netic field, Earth mantle, 1962 Mar p 128–137 -ray diffraction, ffraction patterns of iron 1965 June p 100–108 - seismic waves, fine e 1973 Mar p 24–33 [906] 1977 Aug p 60–76 [927] tization, ocean basins, ive review of ental drift) 1950 May p 32–41 sedimentation, origin of 1955 Sept p 62–66 [816] it, Cedros 1955 Nov p 36–41 [814] it, meteorites, 1957 Apr p 80–94 [102] intle, technology, 1959 Apr p 41–49 concentration of metals 1960 June p 146–154 erferometry 1969 Dec p 88–95 uction, sea-floor ter modeline
dyslexia, visual perception, bilingualism, e relations, language, reading, perception E. Coli: Escherichia coli E. coli, population genetics, evolution, Driecombination, speciation, natural se evolution evolution evolution, penicillin resistance, mutation DNA, gene structure, nucleotide sequeiox 174 plus-and-minus method ear, deafness, directional orientation, heat human anatomy, sensory perception in 17th coapproach to human perception ear lobes, Dunkers, genetic drift, endogar 'hitch-hiker's' thumb Early Iron Age culture, Africa, Bantu lan linguistics Earth, glaciation, orbital motion, eccentre forecast, correlating glacial and side	1965 July p 92–99 type movement, grammatical on of words 1972 July p 84–91 [545] cosophila, mutation, sexual election, genetic basis of 1950 Jan p 32–41 [6] on rate, evolution observed 1953 Oct p 78–83 nice, viral DNA, bacterial virus 1977 Dec p 54–67 [1374] ring cochlea 1957 Aug p 66–78 [44] europsychology, eye, Descartes, on, mechanistic hypothesis 1964 May p 108–116 [184] mous group, blood typing, 1953 Aug. p 76–81 [1062] guage language diffusion, 1977 Apr p 106–114 icities of motion, Milankovitch real time tables 1948 Oct p 40–45	electromagnetic waves, micropulsations, magn longest electromagnetic wave iron-nickel alloy, high pressure technology, X-crystallography, core studies by analogy, did alloys earthquakes underground nuclear explosions, structure of Earth's interior, core within core Earth heat, heat flow, plate tectonics Earth crust, mountain formation, isostasis, grain ocean floor, tectonic processes, comprehens understanding (before acceptance of continuous continental evolution, volcanoes, island arcs, so the continents Pacific Ocean, Acapulco trench, Tonga Trench Trough ocean floor isotope dating, radioactive decay, solar system age of solar system Mohorovicic discontinuity, Mohole, Earth matobjectives of Mohole Project mining, metal ores, natural resources, natural earthquake prediction laser, strain gauge, intercontinental drift, plate tectonics, scaling, subdispreading Triassic period, Pangaea, comput supercontinents breakup of Pangaea traced	netic field, Earth mantle, 1962 Mar p 128–137 ray diffraction, ffraction patterns of iron 1965 June p 100–108 seismic waves, fine re 1973 Mar p 24–33 [906] 1977 Aug p 60–76 [927] tization, ocean basins, ive review of ental drift) 1950 May p 32–41 sedimentation, origin of 1955 Sept p 62–66 [816] 1, Cedros 1955 Nov p 36–41 [814] meteorites, 1957 Apr p 80–94 [102] ntle, technology, 1959 Apr p 41–49 concentration of metals 1960 June p 146–154 referometry 1969 Dec p 88–95 uction, sea-floor ter modeling, 1970 Oct. p 30–44 [892]
dyslexia, visual perception, bilingualism, e relations, language, reading, perception E. Coli: Escherichia coli E. coli, population genetics, evolution, Driecombination, speciation, natural se evolution evolution evolution, penicillin resistance, mutation DNA, gene structure, nucleotide sequeiox 174 plus-and-minus method ear, deafness, directional orientation, heat human anatomy, sensory perception in 17th capproach to human perception ear lobes, Dunkers, genetic drift, endogate hitch-hiker's' thumb Early Iron Age culture, Africa, Bantu languistics Earth, glaciation, orbital motion, eccentriforecast, correlating glacial and side solar eclipse, orbital motion, moon	osophila, mutation, sexual dection, genetic basis of 1950 Jan p 32–41 [6] on rate, evolution observed 1953 Oct p 78–83 ince, viral DNA, bacterial virus 1977 Dec p 54–67 [1374] ring cochlea 1957 Aug p 66–78 [44] europsychology, eye, Descartes, on, mechanistic hypothesis 1964 May p 108–116 [184] mous group, blood typing, 1953 Aug. p 76–81 [1062] guage language diffusion, 1977 Apr p 106–114 icities of motion, Milankovitch real time tables 1948 Oct p 40–45 1954 Feb p 36–40	electromagnetic waves, micropulsations, magn longest electromagnetic wave iron-nickel alloy, high pressure technology, X-crystallography, core studies by analogy, did alloys earthquakes underground nuclear explosions, structure of Earth's interior, core within core Earth heat, heat flow, plate tectonics Earth crust, mountain formation, isostasis, grain ocean floor, tectonic processes, comprehens understanding (before acceptance of continuous continental evolution, volcanoes, island arcs, since continents Pacific Ocean, Acapulco trench, Tonga Trench Trough ocean floor isotope dating, radioactive decay, solar system age of solar system Mohorovicic discontinuity, Mohole, Earth ma objectives of Mohole Project mining, metal ores, natural resources, natural earthquake prediction laser, strain gauge, inte continental drift, plate tectonics, scaling, subd spreading Triassic period, Pangaea, comput supercontinents breakup of Pangaea traced deep-sea drilling, ocean evolution. Pacific plate	netic field, Earth mantle, 1962 Mar p 128–137 -ray diffraction, ffraction patterns of iron 1965 June p 100–108 -seismic waves, fine received and rec
dyslexia, visual perception, bilingualism, erelations, language, reading, perception E. Coli: Escherichia coli E. coli, population genetics, evolution, Driecombination, speciation, natural se evolution evolution evolution, penicillin resistance, mutation DNA, gene structure, nucleotide sequein 0×174 plus-and-minus method ear, deafness, directional orientation, hear human anatomy, sensory perception in 17th capproach to human perception ear lobes, Dunkers, genetic drift, endogate 'hitch-hiker's' thumb Early Iron Age culture, Africa, Bantu languistics Earth, glaciation, orbital motion, eccentration forecast, correlating glacial and side solar eclipse, orbital motion, moon glaciation Antarctic glacier, climate, se	osophila, mutation, sexual dection, genetic basis of 1950 Jan p 32–41 [6] on rate, evolution observed 1953 Oct p 78–83 ince, viral DNA, bacterial virus 1977 Dec p 54–67 [1374] ring cochlea 1957 Aug p 66–78 [44] europsychology, eye, Descartes, on, mechanistic hypothesis 1964 May p 108–116 [184] mous group, blood typing, 1953 Aug. p 76–81 [1062] guage language diffusion, 1977 Apr p 106–114 icities of motion, Milankovitch real time tables 1948 Oct p 40–45 1954 Feb p 36–40	electromagnetic waves, micropulsations, magn longest electromagnetic wave iron-nickel alloy, high pressure technology, X-crystallography, core studies by analogy, did alloys earthquakes underground nuclear explosions, structure of Earth's interior, core within core Earth heat, heat flow, plate tectonics Earth crust, mountain formation, isostasis, grani ocean floor, tectonic processes, comprehens understanding (before acceptance of continuous continental evolution, volcanoes, island arcs, so the continents Pacific Ocean, Acapulco trench, Tonga Trench Trough ocean floor isotope dating, radioactive decay, solar system age of solar system Mohorovicic discontinuity, Mohole, Earth ma objectives of Mohole Project mining, metal ores, natural resources, natural earthquake prediction laser, strain gauge, intercontinental drift, plate tectonics, scaling, subd spreading Triassic period, Pangaea, comput supercontinents breakup of Pangaea traced deep-sea drilling, ocean evolution Pacific platisedimentary cores, voyager of the Glomar Cores.	netic field, Earth mantle, 1962 Mar p 128–137 -ray diffraction, ffraction patterns of iron 1965 June p 100–108 -seismic waves, fine received in the seismic waves, fine received in the seismic waves, fine review of ental drift) - 1950 May p 32–41 - 1950 May p 32–41 - 1950 May p 32–41 - 1950 Sept p 62–66 [816] - 1955 Nov p 36–41 [814] - 1957 Apr p 80–94 [102] - 1957 Apr p 80–94 [102] - 1959 Apr p 41–49 - 1960 June p 146–154 - 1960 June p 146–154 - 1960 Dec p 88–95 - 1960 Dec p 88–95 - 1970 Oct p 30–41 [892] - 1970 Oct p 30–41 [892] - 1910 Lettonics, - 1910 Lettonics
dyslexia, visual perception, bilingualism, erelations, language, reading, perception E. Coli: Escherichia coli E. coli, population genetics, evolution, Driecombination, speciation, natural se evolution evolution evolution, penicillin resistance, mutation DNA, gene structure, nucleotide sequer 0×174 plus-and-minus method ear, deafness, directional orientation, hear human anatomy, sensory perception in 17th c approach to human perception ear lobes, Dunkers, genetic drift, endogar 'hitch-hiker's' thumb Early Iron Age culture, Africa, Bantu landinguistics Earth, glaciation, orbital motion, eccentriforecast, correlating glacial and side solar eclipse, orbital motion, moon glaciation Antarctic glacier, climate, sides the proceeding places of the procedure of the pr	1965 July p 92–99 type movement, grammatical on of words 1972 July p 84–91 [545] cosophila, mutation, sexual election, genetic basis of 1950 Jan p 32–41 [6] on rate, evolution observed 1953 Oct p 78–83 nice, viral DNA, bacterial virus 1977 Dec p 54–67 [1374] ring cochlea 1957 Aug p 66–78 [44] europsychology, eye, Descartes, on, mechanistic hypothesis 1964 May p 108–116 [184] mous group, blood typing, 1953 Aug. p 76–81 [1062] guage language diffusion, 1977 Apr p 106–114 icities of motion, Milankovitch real time tables 1948 Oct p 40–45 1954 Feb p 36–40 ea level, hydrologic cycle 1955 Sept p 84–92 [809] 1955 Sept p 109–112	electromagnetic waves, micropulsations, magn longest electromagnetic wave iron-nickel alloy, high pressure technology, X-crystallography, core studies by analogy, did alloys earthquakes underground nuclear explosions, structure of Earth's interior, core within core Earth heat, heat flow, plate tectonics Earth crust, mountain formation, isostasis, graniocean floor, tectonic processes, comprehens understanding (before acceptance of continuous continental evolution, volcanoes, island arcs, since continents Pacific Ocean, Acapulco trench, Tonga Trench Trough ocean floor isotope dating, radioactive decay, solar system age of solar system Mohorovicic discontinuity, Mohole, Earth matobjectives of Mohole Project mining, metal ores, natural resources, natural earthquake prediction laser, strain gauge, interesting the continental drift, plate tectonics, scaling, subdispreading Triassic period, Pangaea, comput supercontinents breakup of Pangaea traced deep-sea drilling, ocean evolution Pacific plates sedimentary cores, voyager of the Glomar Capital alloys.	netic field, Earth mantle, 1962 Mar p 128–137 -ray diffraction, ffraction patterns of iron 1965 June p 100–108 -seismic waves, fine e 1973 Mar p 24–33 [906] 1977 Aug p 60–76 [927]
dyslexia, visual perception, bilingualism, erelations, language, reading, perception E E. Coli: Escherichia coli E. coli, population genetics, evolution, Driecombination, speciation, natural se evolution evolution evolution penicillin resistance, mutation DNA, gene structure, nucleotide sequein 0×174 plus-and-minus method ear, deafness, directional orientation, heat human anatomy, sensory perception in 17th crapproach to human perception ear lobes, Dunkers, genetic drift, endogate thich-hiker's' thumb Early Iron Age culture, Africa, Bantu languistics Earth, glaciation, orbital motion, eccentriforecast, correlating glacial and side solar eclipse, orbital motion, moon glaciation Antarctic glacier, climate, sidenselphene circulation, solar energy, atmosphere	1965 July p 92–99 type movement, grammatical on of words 1972 July p 84–91 [545] To soophila, mutation, sexual election, genetic basis of 1950 Jan p 32–41 [6] on rate, evolution observed 1953 Oct p 78–83 nice, viral DNA, bacterial virus 1977 Dec p 54–67 [1374] ring cochlea 1957 Aug p 66–78 [44] europsychology, eye, Descartes, on, mechanistic hypothesis 1964 May p 108–116 [184] mous group, blood typing, 1953 Aug. p 76–81 [1062] guage language diffusion, 1977 Apr p 106–114 netites of motion, Milankovitch real time tables 1948 Oct p 40–45 1954 Feb p 36–40 ea level, hydrologic cycle 1955 Sept p 84–92 [809] 1955 Sept p 109–112 Earth rotation, circulation of the	electromagnetic waves, micropulsations, magn longest electromagnetic wave iron-nickel alloy, high pressure technology, X-crystallography, core studies by analogy, did alloys earthquakes underground nuclear explosions, structure of Earth's interior, core within core Earth heat, heat flow, plate tectonics Earth crust, mountain formation, isostasis, grain ocean floor, tectonic processes, comprehens understanding (before acceptance of continuous continental evolution, volcanoes, island arcs, so the continents Pacific Ocean, Acapulco trench, Tonga Trench Trough ocean floor isotope dating, radioactive decay, solar system age of solar system Mohorovicic discontinuity, Mohole, Earth matobjectives of Mohole Project mining, metal ores, natural resources, natural earthquake prediction laser, strain gauge, interesting the prediction continental drift, plate tectonics, scaling, subdispreading Triassic period, Pangaea, comput supercontinents breakup of Pangaea traced deep-sea drilling, ocean evolution Pacific platisedimentary cores, voyager of the Glomar Cathorica, in the programment of the Glomar Cathorica, geochemical cycle, hydrologic cycle	netic field, Earth mantle, 1962 Mar p 128–137 ray diffraction, ffraction, ffraction patterns of iron 1965 June p 100–108 seismic waves, fine re 1973 Mar p 24–33 [906] 1977 Aug p 60–76 [927] tization, ocean basins, ive review of ental drift) 1950 May p 32–41 sedimentation, origin of 1955 Sept p 62–66 [816] it, Cedros 1957 Apr p 80–94 [102] itle, technology, 1959 Apr p 41–49 concentration of metals 1960 June p 146–154 referemetry 1969 Dec p 88–95 uction, sea-floor ter modeling. 1970 Oct p 30–41 [892] e, plate tectonics, challenger 73 Nov p 102–112 [911] cle, lithosphene cycle 1974 propers 1974 pr
E. Coli: Escherichia coli E. coli: Escherichia coli E. coli, population genetics, evolution, Dr recombination, speciation, natural se evolution penicillin resistance, mutatio DNA, gene structure, nucleotide sequei 0×174 plus-and-minus method ear, deafness, directional orientation, hea human anatomy, sensory perception in 17th c approach to human perceptic ear lobes, Dunkers, genetic drift, endogar 'hitch-hiker's' thumb Early Iron Age culture, Africa, Bantu lan linguistics Earth, glaciation, orbital motion, eccentriforecast, correlating glacial and side solar eclipse, orbital motion, moon glaciation Antarctic glacier, climate, side rocket photograph, Earth from space atmospheric circulation, solar energy,	1965 July p 92–99 the movement, grammatical on of words 1972 July p 84–91 [545] cosophila, mutation, sexual election, genetic basis of 1950 Jan p 32–41 [6] on rate, evolution observed 1953 Oct p 78–83 nice, viral DNA, bacterial virus 1977 Dec p 54–67 [1374] ring cochlea 1957 Aug p 66–78 [44] europsychology, eye, Descartes, on, mechanistic hypothesis 1964 May p 108–116 [184] mous group, blood typing, 1953 Aug. p 76–81 [1062] guage language diffusion, 1977 Apr p 106–114 icities of motion, Milankovitch real time tables 1948 Oct p 40–45 1954 Feb p 36–40 ea level, hydrologic cycle 1955 Sept p 109–112 Earth rotation, circulation of the 1955 Sept p 114–124	electromagnetic waves, micropulsations, magn longest electromagnetic wave iron-nickel alloy, high pressure technology, X-crystallography, core studies by analogy, did alloys earthquakes underground nuclear explosions, structure of Earth's interior, core within core Earth heat, heat flow, plate tectonics Earth crust, mountain formation, isostasis, grani ocean floor, tectonic processes, comprehens understanding (before acceptance of continuous continental evolution, volcanoes, island arcs, so the continents Pacific Ocean, Acapulco trench, Tonga Trench Trough ocean floor isotope dating, radioactive decay, solar system age of solar system Mohorovicic discontinuity, Mohole, Earth ma objectives of Mohole Project mining, metal ores, natural resources, natural earthquake prediction laser, strain gauge, inte continental drift, plate tectonics, scaling, subd spreading Triassic period, Pangaea, comput supercontinents breakup of Pangaea traced deep-sea drilling, ocean evolution Pacific platisedimentary cores, voyager of the Glomar Catholical and the evolution, plate tectonics, solar system ero	netic field, Earth mantle, 1962 Mar p 128–137 ray diffraction, ffraction, ffraction patterns of iron 1965 June p 100–108 seismic waves, fine received in the seismic waves, fine received for the seismic waves, fine review of ental drift) 1950 May p 32–41 redimentation, origin of 1955 Sept p 62–66 [816] a, Cedros 1955 Nov p 36–41 [814] a, meteorites, 1957 Apr p 80–94 [102] ntile, technology, 1959 Apr p 41–49 concentration of metals 1960 June p 146–154 referemetry 1969 Dec p 88–95 uction, sea-floor ter modeling. 1970 Oct p 30–41 [892] e, plate tectonics, hallenger ray Nov p 102–112 [911] cle, lithosphene cycle 1974 June p 72–79 [414] recogn 1975 Sept 1900–100.
dyslexia, visual perception, bilingualism, erelations, language, reading, perception E E. Coli: Escherichia coli E. coli, population genetics, evolution, Driecombination, speciation, natural se evolution evolution evolution penicillin resistance, mutation DNA, gene structure, nucleotide sequein 0×174 plus-and-minus method ear, deafness, directional orientation, heat human anatomy, sensory perception in 17th crapproach to human perception ear lobes, Dunkers, genetic drift, endogate thich-hiker's' thumb Early Iron Age culture, Africa, Bantu languistics Earth, glaciation, orbital motion, eccentriforecast, correlating glacial and side solar eclipse, orbital motion, moon glaciation Antarctic glacier, climate, sidenselphene circulation, solar energy, atmosphere	1965 July p 92–99 type movement, grammatical on of words 1972 July p 84–91 [545] To soophila, mutation, sexual election, genetic basis of 1950 Jan p 32–41 [6] on rate, evolution observed 1953 Oct p 78–83 nice, viral DNA, bacterial virus 1977 Dec p 54–67 [1374] ring cochlea 1957 Aug p 66–78 [44] europsychology, eye, Descartes, on, mechanistic hypothesis 1964 May p 108–116 [184] mous group, blood typing, 1953 Aug. p 76–81 [1062] guage language diffusion, 1977 Apr p 106–114 netites of motion, Milankovitch real time tables 1948 Oct p 40–45 1954 Feb p 36–40 ea level, hydrologic cycle 1955 Sept p 84–92 [809] 1955 Sept p 109–112 Earth rotation, circulation of the	electromagnetic waves, micropulsations, magn longest electromagnetic wave iron-nickel alloy, high pressure technology, X-crystallography, core studies by analogy, did alloys earthquakes underground nuclear explosions, structure of Earth's interior, core within core Earth heat, heat flow, plate tectonics Earth crust, mountain formation, isostasis, grain ocean floor, tectonic processes, comprehens understanding (before acceptance of continuous continental evolution, volcanoes, island arcs, so the continents Pacific Ocean, Acapulco trench, Tonga Trench Trough ocean floor isotope dating, radioactive decay, solar system age of solar system Mohorovicic discontinuity, Mohole, Earth matobjectives of Mohole Project mining, metal ores, natural resources, natural earthquake prediction laser, strain gauge, interesting the prediction continental drift, plate tectonics, scaling, subdispreading Triassic period, Pangaea, comput supercontinents breakup of Pangaea traced deep-sea drilling, ocean evolution Pacific platisedimentary cores, voyager of the Glomar Cathorica, in the programment of the Glomar Cathorica, geochemical cycle, hydrologic cycle	netic field, Earth mantle, 1962 Mar p 128–137 ray diffraction, ffraction, ffraction patterns of iron 1965 June p 100–108 seismic waves, fine received in the seismic waves, fine received for the seismic waves, fine review of ental drift) 1950 May p 32–41 redimentation, origin of 1955 Sept p 62–66 [816] a, Cedros 1955 Nov p 36–41 [814] a, meteorites, 1957 Apr p 80–94 [102] ntile, technology, 1959 Apr p 41–49 concentration of metals 1960 June p 146–154 referemetry 1969 Dec p 88–95 uction, sea-floor ter modeling. 1970 Oct p 30–41 [892] e, plate tectonics, hallenger ray Nov p 102–112 [911] cle, lithosphene cycle 1974 June p 72–79 [414] recogn 1975 Sept 1900–100.

.--

electric power generation, geothermal power 1972 Jan p 70-77 [8]	991
Earth cole, heat now, plate tectonics 1977 Aug n 60-76 in	271 Strong motion, seisting waves, strong motion
Earth history, minerals, fluid inclusions, geology, ancient fluids in cryst.	1977 Dec p 00-78 [928]
1962 Oct n 38-47 196	1950 Sept p 48
Earth magnetic field, lightning, radio, ionosphere, 'whistlers', radio echo	earthquake zones, continental drift, magnetization notions, subdivision
of lightning 1956 Jan p 34-	zones, mountain formation, plate tectonics, sea-floor spreading
Antarctica, 'whistlers', upper atmosphere, solar wind, aurora,	overview of the new geology 1972 May n 56-68 19001
atmosphere-magnetic field-solar wind interaction	island arcs, lithospheric subduction, mountain formation, plate
1962 Sept p 74-83 [85] aurora borealis, solar wind, solar corona, Van Allen belts, comet tails,	
magnetic storms	1975 Nov p 88–98 [91]"
magnetic storms 1964 Apr p 66- plasma, solar radiation, tonosphere, geomagnetism, barium clouds,	The state of the s
magnetosphere, electric field, artificial plasma clouds from rockets	formation, India-Eurasia collision, plate tectonics, sea floor
1968 Nov p 80-9	spreading, Tibetan plateau 1977 Apr p 30-4
triple equatorial electrojet 1959 Sept. p. 1	in the state of th
Hipped magnetic poles 1963 Oct. p. 6	isunamis, 'tidal' waves 1954 Aug p 60-6 Earth core, Earth mantle, seismology, the interior of the Earth
Earth mantle, tectonic processes, mountain formation, convection	1955 Sent n 56-61 1804
currents, the 'blister hypothesis' 1949 June p 16-2	Ceremia u ar ac Easth ages Coath agestle tour formula accompanies
geology, seismology, Earth science, science, Earth core, geochronology	elucidate Earth structure 1959 Mar p 131-143 [827
ocean floor, geology 1900-1950 1950 Sept p 36-3	,
Earth heat, convection currents, Earth core, heat flow, radioactivity	convection currents 1961 Dec p 52-61
1950 Dec p 54-5 grantization 1955 Apr p 77-8	
grantization 1955 Apr p 77-8 Earth core, earthquakes, seismology, the interior of the Earth	
1955 Sept p 56–61 [804	atomic test ban, atomic bomb test, underground nuclear explosions
earthquakes, seismic waves, Earth core, low frequency seismic waves	seismology, arms control, detection and discrimination of underground atomic weapons tests 1966 July p 19-29
elucidate Earth structure 1959 Mar p 131-143 [827	continental drift, sea-floor spreading, magnetic reversals, crustal
Earth crust, Mohorovicie discontinuity, Mohole, technology, objectives	movement, plate tectonics 1968 Dec p 60-70 [875]
of Mohole Project 1959 Apr p 41-49	plate boundaries, plate tectonics, San Andreas fault
Earth core, electromagnetic waves, micropulsations, magnetic field,	1971 Nov p 52-68 [896]
longest electromagnetic wave 1962 Mar p 128-137	Earth core, underground nuclear explosions, seismic waves, fine
plastic zone, seismology, isostatic equilibrium, basalt, Mohorovicic	structure of Earth's interior, core within core
discontinuity, plastic zone at depth between 37 and 155 miles	1973 Mar p 24-33 [906]
1962 July p 52~59	10/f D-= = 47
continental drift, plate tectonics, sea-floor spreading, ocean ridges, convection currents, tensile-stress hypothesis 1969 Nov p 102–119	1001 4 - 48
kimberlites, meteorite composition, plate tectonics, seismic waves,	ground displacement 1972 July p 51
plumes, Earth dynamics 1975 Mar p 50-63 [915]	heloful safety hints 1973 Mar p 48
convection cells, convection currents, plate tectonics, driving force of	earthworks. Arawak Indians flood plain agricultural system ridged
continental drift, large-scale circulation 1976 Nov p 72-89 [921]	fields New World archeology 1967 July P 92-100
diamond, plumes, Limberlite pipes, volcanic eruption, genesis of	earwax, variations by race 1971 June p 56
Limberlite pipes 1978 Apr. p. 120–132 [931]	East Pacific Rise, ocean floor, subterranean heat flow, trench faults earthquakes, convection currents 1961 Dec p 52-61
plumes found to be intermittent 1973 July p 48	East-West trade, economic development, European economy, trade
Yellowstone Park thermal plume 1975 Feb p 43 Earth mantle convection, ocean floor, Pacific Ocean, Mendocino	deficit Feonomic Commission for Furone, industrial reconstruction
escarpment, fracture zones, seamounts 1955 July p 36-41	1948 July p 3-13
hot spots and plumes 1972 Nov p 51	Faster Island, Polynesian culture, stone heads 1949 Feb p 50-55
Earth-Moon system, day's length, lunar orbit, moon, tides	Ebla tablets, Old Testament origins
1972 Apr p 42–52	eccentricities of motion, glaciation, orbital motion, Earth, Milankovitch
earth-moving, excavating machines, tunneling rock borers, surface	forecast, correlating glacial and sidereal time tables 1948 Oct p 40–45
mining, mining 1967 Nov p 74–85 Forth radius, 6 378 260 meters 1956 July p 50	ecdysone, actinomyosin, cortisone, insulin, estrogens, gene activation,
Earth radius, 6,378,260 meters 1956 July p 50 Earth rotation, Earth, atmospheric circulation, solar energy, circulation of	PNA synthesis aldosterone growth hormone ACTH, thyroxin
the atmosphere 1955 Sept p 114-124	mechanism of hormone action 1965 June p 36-45 [1013]
Chandler wobble, earthquake effects, precession	Escherichia coli, see E coli
1971 Dec p 80–88 (897)	Echo II satellite, artificial satellite, communication satellite,
cosmic background radiation, 'new ether drift' 1967 May p 54	telecommunication, orbital motion, radio, satellite communication systems, consideration of alternatives 1961 Oct p 90-102
Earth satellite, orbital motion, space exploration 1955 Dec p 29-33	echo-sounding, ocean floor, topography, Aleutian Trench, seamounts,
gamma-ray astronomy, astronomy, telemetry, first glimpse of gamma-	fathogram, sonar, the Pacific floor 1952 Apr p 19-33
ray sky U S plans for 1957 1955 Sept p 68 1955 Oct p 45	auditory discrimination, bats, bat sonar, sonar, sensory perception
11 C C P plane for 1957	supersonic sonar of bats 1958 July p 40-49 [1121]
1900 Dec p 52	sonar, ocean floor, plankton, deep-sea scattering layer, photic zone 'false bottom' 1962 July p 44-50
- A disconnection of the control of	ultrasonics, medical diagnosis, optics, computer-assisted imaging
geochronology, ocean 11001, geology 1900-1990	sonar, imaging internal organs by ultrasound
	1978 May p 98-112 [1389]
earthquake deformations, Later's woodsteen the deformation and the deformation and the deformation are deformed to the deformation are deformed to the deformation and the deformation are deformed to the deformation are deformed to the deformation and the deformation are deformed to the deformation and the deformation are deformed to the deformation are deformed to the deformation and the deformation are deformed to the deformation are deforme	echo viruses, enteroviruses, poliomyelitis virus, Coxsackie virus, tissue
seismic waves, volcarib and a prediction ground motion, seismic	culture, epidemiology, benign and infectious intestinal viruses 1959 Feb. p. 88-97
earthquake dynamics, earthquake prediction 1977 Dec p 68–78 [928] waves, strong-motion seismology 1977 Dec p 68–78 [928]	polynea see solar eclipse
waves, strong-motion seismology earthquake effects, Chandler wobble, Earth rotation, precession 1971 Dec p 80-88 [897]	eclipse phenomena, chromosphere, corona photosphere, solar corona
1070 1 46	Sun 1973 Oct p 68–79
earthquake in Peru, glacier-mud damage	predicted by Maya 1973 Nov p 50
earthquake in Peru, glacier-mud damage earthquake prediction, laser, strain gauge, interferometry, Earth crust 1969 Dec p 88-95	ecological adaptation, animal behavior, habitat selection heredity, learning, field experiments with mice 1964 Oct p 109-116 [195]
plate-boundary stresses, seismology, earthquake precursors 1975 May p 14-23 [917]	beginning tools and and a second of the seco
1975 May p 14-25 [517]	

ecological cycles, DDT residues, insecticide, fallout, food chain,	epidemiology, morbidity, mortality rates, income status, occupational
ecological redistribution of pollutants 1967 Mar p 24-31 [1000]	health, 'social medicine', environment, material well-being, behavior of disease 1949 Apr p 11-15
ecological fragility, rain-forest ecosystem, slash-burn agriculture, tropical	of disease 1949 Apr p 11-15 tuberculosis, tubercle bacillus, mortality rates, public health, science
rain forest, fungal hyphae 1973 Dec p 38-67 [1286] ecological niche, extinction, species specificity, adaptation, natural	history, popularization of well-being, not therapy, ends 'white
selection, evolutionary radiation, 'Is man here to stay''	plague' 1949 Oct p 30-41
1950 Nov p 52–55	world population, Malthusian doctrine 1950 Feb p 11-15
symbiosis, reef ecology, cleaning behavior, animal behavior, behavioral	developing countries, technical assistance, industrialization, 'point
integration of reef ecology 1961 Aug p 42-49 [135]	four' 1950 Mar p 16–19
cryptozoa, Berlese funnel, natural history, cryptosphere, animal	agricultural production, poverty, education, language, Peru, literacy, Cornell-Peru experiment in economic development
behavior, life under rocks and rotting logs 1968 July p 108–114 [1112]	1957 Jan p 37–45
danger of intercontinental animal transport 1957 Apr p 76	soil erosion, irrigation, agricultural technology, poverty, afforestation,
ecological staircase. Pacific Coast marine terraces 1976 Apr p 56	Mediterranean Project, United Nations 1960 July p 86–103
ecological system, feedback, control loop, servomechanisms, flybali	irrigation, Mekong river, monsoons, floods, hydro-engineering, rice,
governor, positive feedback, negative feedback, nervous system,	Mekong river plan, United Nations 1963 Apr p 49-59
economic system, automatic control, feedback concept 1952 Sept p 48-55	technology transfer, Industrial Revolution, introduction to single-topic issue on technology and economic development 1963 Sept p 52-61
ecological warfare, bomb craters, cratering, defoliation, laterization,	demographic transition, industrialization, urbanization, population
Vietnam war 1972 May p 20–29 [1248]	control, family planning, economic development and the
ecology, Krakatoa, volcanic eruption, plant succession	demographic transition 1963 Sept p 62–71 [645]
1949 Sept p 52–54	agricultural technology, technology transfer, human nutrition, food
eelgrass, marine ecology, foodchain, fungal infection, account of an	production, nutritional self-sufficiency in economic development
ecological catastrophe 1951 Jan p 52–55 strangler trees evolution tropical rain forest 1954 Jan p 78–80	1963 Sept p 72–80 [1153] industrialization, water supply, irrigation, desalination, water resource
strangler trees, evolution, tropical rain forest estuary, natural history, a teeming life province 1954 May p 64-68	management, technology and economics of water in economic
alfalfa caterpillar, insecticide, life cycle, agricultural pest, wilt disease,	development 1963 Sept p 92–108
predation 1954 June p 38-42	energy technology, industrialization, population, fuel consumption,
caves, degenerative evolution 1955 May p 98-106	energy resources, energy requirements and resources for economic
foodchain, food chain, human population, population density, 'the	development 1963 Sept p 110–126 technology transfer, industrialization, mineral resources, metal
human crop' 1956 Apr p 105-112 energy cycle, biomass, solar energy, food chain, element abundance,	consumption, natural resources and technological substitution
autotrophs, heterotrophs, the ecosphere 1958 Apr p 83–92	1963 Sept p 128–136
climate, marshland, swamp, eutrophication, wetlands, natural history	industrial technology, industrialization, education, human-resource
of marsh, effect on climate 1958 Oct p 114–122 [840]	development, education for economic development
fire, forestry, grassland, forest fire, role of fire in climax ecology	1963 Sept p 140–147 input-output analysis, developed countries, developing countries,
1961 Apr p 150–160 [1099] Antarctica, oceanography, manne biology, food chain, krill, blue	complementary economic structures of developed and
whale, Antarctic convergence, biological province of Antarctic	underdeveloped countries 1963 Sept p 148–166 [617]
convergence 1962 Sept p 186–210	industrial technology, Nigeria, technology transfer, tribal politics,
Antarctica, fauna, flora, lichens, blue-green algae, Antarctica terrestrial	economic development of former colonial region
life 1962 Sept p 212-230 [865] predation, plant toxins, food chain, milkweed, blue jay, predator-prey	1963 Sept p 168–184 industrialization, population control, agricultural production,
relationship, mimicry, chemical defense against predation	technology transfer, food production, economic planning, India,
1969 Feb p 22–29 [1133]	economic development by democratic planning
calefaction, Connecticut River, fission reactor, thermal pollution,	1963 Sept p 189–206
industrial cooling, nuclear power, fisheries, fish crisis	industrialization, tropical rain forest, subsistence economy, tropical
1970 May p 42–52 [1177] forest communities, lichens, algae, food chain, nitrogen cycle, treetop	rain forest, urbanization, resource management, Brazil, uneven national development 1963 Sept p 208-220
ecosystems 1973 June p 74–80 [1274]	industrialization, national economic policy, agricultural technology,
forest succession, trees, leaf distribution 1975 May p 90–98 [1321]	Federal intervention in economic development of U S South
Australia, behavioral adaptation, insect behavior, sand wasps, solitary	1963 Sept p 224-232
insects, Bembix 1975 Dec p 108-115 surface tension, water-strider, backswimmer, whirligig beetle,	industrialization, technology transfer, economic planning, market
springtail, aquatic insect, insects of the water surface	process versus planning in economic development 1963 Sept p 235-244
1978 Apr p 134–142 [1387]	birth control, family planning, population growth, promotion of birth
bacteria in sourdough 1973 Nov p 50	control in Taiwan 1964 May p. 29–37 [621]
see also reef ecology, ecosystem, climax ecosystem, sand dune ecology and the like	agricultural technology, People's Republic of China, industrial
ecology of soil, soil structure, chernozems, podzols, latozols, tundra,	technology, technology in People's Republic of China
alluvial soils, agronomy, soil erosion, the soils of the world and their	USSR, industrial technology 1966 Nov p 37–45 1968 Dec p 17–23
management 1950 July p 30-39	arms production, military expenditures, arms trade, arms race, the
economic analysis, 'cost push' inflation, 'demand-pull', inflation, input-	world cost of the arms race 1969 Oct p 21–27 [650]
output analysis 1971 Nov p 15–21 business cycle, economic forecasting, economic indicators	Japan, employment policy, investment, debt financing, government-
1975 Jan p 17-23	business relations, Japan's economic growth 1970 Mar p 31-37 energy, power machines, mechanical energy, biological energy, power,
economic botany, hickory, fences, axe-handles, smoked ham, hickory	introduction to a single-topic issue on energy and power
nuts, forest, natural history, shagbark hickory 1948 Sept p 40-43 Economic Commission for Europe, economic development, European	1971 Sent p 36-40 (661)
economy, trade deficit, East-West trade, industrial reconstruction	military expenditures, cold war, politics of aid, 'rich' nations, 'poor'
1948 July p. 9–15	Chinese industry, technology, progress of People's Republic of China
economic development, European economy, trade deficit. Economic	in computer electronics, instrumentation and control technologies
Commission for Europe, East-West trade, industrial reconstruction	1972 Dac p 12 17
1948 July p 9-15 Middle East oil, petroleum resources, energy economics, Persian Gulf	or yell recliniology, lechnology history 1072 May - 01 01
fields, Iran, Iraq Saudi Arabia 1948 Sept p 9-15	demographic transition, human population, population explosion, zero population growth, introduction to single-topic issue on the human
·	population 1974 Sept p 30–39
	.>- scht b 30-39

China, rice, hybrid wheat, agricultural technology, hybrid rice,	anaray ayala faray and
irrigation, in estock 1975 June - 12	energy cycle, forest, partitioning of energy in a New England forest
distribution of wearth, middle classes, population growth, production	17/0 Wat n 9/~111111341
statistics, natural resources, demographic transition	and a second contraction, child volue development, playing garing
1976 July n. 20	fertilization, mesoderm, endoderm, embryological 'organizer', science history, review of classical embryology
green revolution, nunger, population, food and agriculture	the state of the s
introduction to single-topic issue on food and agriculture	1957 Nov p 79-88 [103] ectoniorphs, into government 1951 Dec p 40
det alanum rounts at 1976 Sept p 30-	70
developing countries 'green revolution', technology transfer, food and	1060 Ion = 100 115 111271
agriculture 1976 Sept p 196-2	05 flea tump insect cuttele insect flight flea regular as electomer
Congo research center 1948 Oct p	24 1973 Nov. p. 92-100 (1284)
world economy turns up 1949 Mar p	26 Skin, 'New Year Greeting' a noem by W.H. Auden occasioned by
U.N. laboratories 1949 Nov p	30 article in January 1969 issue 1969 Dec. p. 134
science in India 'too many Indiana' 1950 Jan p	30 ectothermy, 'cold-blooded' animals, metabolism, beterothermy insect
'too many Indians' 1954 Jan p	40 flight, sphinx moths, temperature regulation, Mandura sexta warm
U.N. survey of scientific resources 1960 Aug p	70 up mechanisms 1972 June p 70–77 [1252]
rich and poor countries 1972 Sept p 6 comparative growth rates 1973 June p 6	birds, dinosaurs, endothermy, metabolism birds descended from
poor countries, rich countries economic forecasting, business cycle, economic analysis, economic	
	1966 Jan p 28–35
indicators 1975 Jan p 17-2 economic geography, urban planning Ciudad Guyana, cities, land	
ownership, highway engineering, a model city in Venezuela	atmospheric circulation 1968 Jan p 100-113
1965 Sept p 122–13	negative viscosity, turbulence, wind, nonuniform flows, rotating systems, viscosity 1970 July p 72-80
energy economics, energy storage, pipelines, power transmission,	
tankers, power, economic geography of energy production,	edge dislocation, crystal structure dislocations, soap bubbles slip planes 1955 July p 80-87 [204]
distribution and consumption 1971 Sept p 164–175 [669	edge tone, feedback, vortex, aerodynamic whistles, hole tone, sound
economic indicators, business cycle, economic analysis, economic	waves, whistles flutes organs and rocket engines 1970 Jan p 40-46
forecasting 1975 Jan p 17–23	Edison, electric light, incandescent lamp, industral research science
economic planning, Amazon, tropical rain forest, developing countries,	history, Thomas A Edison, biography 1959 Nov p 98-114
resource prospecting, forest management, mineral resources, electric	education, agricultural production, poverty, economic development
power, the Amazon frontier 1948 May p 11-14	language Peru literacy, Cornell-Peru experiment in economic
economic development, industrialization, population control,	development 1957 Jan p 37-43
agricultural production, technology transfer, food production, India,	mathematics teaching curriculum reform high school, university
economic development by democratic planning	sponsored curriculum reform 1958 May p 64-74 [238]
1963 Sept p 189–206	learning memory, experimental psychology, 'drill' in learning 1958 Aug p 68-72 [422]
economic development, industrialization, technology transfer, market	1938 Alig p 00-72 [42-7]
process versus planning in economic development 1963 Sept p 235-244	teaching machine operant conditioning, inductive reasoning rhythm self-teaching by small rigorous steps 1961 Nov p 90-102
decision theory, energy economics power production, technology	US population, labor force, age-sex distribution, demographics gross
assessment, tort law, market process 1971 Sept p 191–200 [671]	national product ITS census more from the ITS census of 1900
economic power, black power, American Negro, racial discrimination,	1962 Oct p 30-37
group identity, ethnic groups, slavery, social deprivation	industrial technology, economic development, industrialization
1967 Apr p 21–27 [633]	human resource development, education for economic development
economic regionalism in U S., natural gas, pipelines, appraisal of natural	1963 Sept p 140-147
gas, economics and resources in U S 1951 Nov p 17-21	poverty, group behavior, rural poverty, community action, emotional
economic system, feedback, control loop, servomechanisms, flyball	illness social psychology, study of community regeneration 1965 May p 21-27 [634]
governor, positive feedback, negative feedback, ecological system,	computer technology, teaching machine programmed instruction
nervous system, automatic control, feedback concept 1952 Sept p 48-55	individualized teaching 1966 Sept p 206-220 [533]
economics, psychology, economic psychology 1954 Oct p 31–35 [452]	Nobel prizes university education, sociology, scientific careers
input-output analysis, arms control, military expenditures, impact of	sociology of the Nobel prizes 1967 Not p 25-33
disarmament on 11 S economy 1961 Apr p 4/-55 [611]	teacher expectation and pupil performance 1967 Nov p 54-59
mathematical model, social sciences decision theory, mathematics in	'psychology of desegregation' 1957 May p 68
and other social sciences 1964 Sept p 108~182	USSR 1958 Jan p 44 Perceptron, self-teaching machine 1958 Sept p 88
input output analysis U.S. economy, interindustry transactions, 1938	
U S Department of Commerce input-output table 1965 Apr p 25-35 [624]	education funding, Hill-Elhot bill 1958 Apr p 46 curriculum reform U S National Science Foundation program
automatic control, technology, input-output analysis, labor force, US	1958 July p 4/
impact of technological change, 1947-1958, input-output tables	US Federal 1958 Oct p 52
impact of technological change, 1977 1966 Apr p 25-31 [629]	educational performance, social deprivation, teacher expectations
critique of 'Limits to Growth' 1974 Feb p 42	experiment in self-fulfilling prophecy for disadvantaged children
	1968 Apr p 19-23 [514] educational research, National Institute of Education 1972 May p 48
	educational research, National Institute of Education 1972 May p 48 educational TV, channels dedicated 1951 May p 34
ecosystem, climax ecosystem chergy cycles 1070 S 64 74 [1100]	eelgrass, marine ecology foodchain ecology, fungal infection account of
biosphere energy cycle 1970 Sept p 04-74 [1190]	an ecological catastrophe 1951 Jan p 52-55
forestry, nitrogen fixation, resource management, ration, resource management	efficiency, desert plants C-4 trait plant breeding
watershed, deforestation, deforestation expenses a 1970 Oct. p. 92–101 [1202]	1973 Oct p 80-93 [1281]
seal power, Baffin	eggs, animal behavior, incubator birds chicken fowl ornithology, hatching eggs in hot places 1959 Aug p 52-58
energy cycle Eskimo, hunting societies, food chain but p 104–115 [665]	hatching eggs in hot places 1959 Aug p 52-58 agricultural technology poultry production food production animal
Island	bushandry chicken U.S. chicken factories 1966 July p. 56-64
Guinea tropical agriculture 1971 Sept p 116–132 [666] Guinea tropical agriculture 118 accompts power, environmental	****
	mosquitoes yellow fever sexual behavior reproduction larvae Aedes
Guinea tropical agriculture energy cycle, industrial society, U S economy, power, environmental protection 1971 Sept p 134-144 [667]	mosquitoes yellow fever sexual behavior reproduction larvae Aedes Aegypti 1968 Apr. p. 108-116

eggshell, bone, calcium metabolism, chicken, calcite, mobilization	of public opinion, voting behavior, attitude survey, election of 1952
calcium from bone 1970 Mar p 88–9.	
thickness gauge 1967 Fe eggshell thinning, calcium metabolism, pollution, chorinated	applications, gerrymander 1965 Nov p 20–27
hydrocarbons, DDT, dieldrin, avian reproduction, insecticide	, food public opinion, voting systems, paradox inescapable
chain, ecological effect of pesticides 1970 Apr p 72–7	
Egyptian civilization, Rhınd papyrus, mathematics 1952 Aug 1	24–27 computerized voting 1975 Aug p 47
Nile valley, Sakkara, burial site, pharaohs, tombs of the first pharaohs,	araohs electric arc, plasma jet, heat, magnetohydrodynamics, 30,000 degrees F
1957 July p	106–116 torch, applications 1957 Aug p 80–88
Egyptian glass, glass, glassmakers, Roman glass, faience, chemical	and electric automobile, automobile, battery, air pollution, weight, cost,
physical analysis of ancient glass 1963 Nov p	120–130 performance of electric automobile 1966 Oct p 34–40 battery research 1966 Dec p 65
eidetic images, vision, child psychology, perceptual memory, 'photographic' memory 1969 Apr p 36-	
demonstration 1970 Mg	
Eiffel Tower, wind bracing, skyscrapers, construction technology,	electric current, Josephson effects, superconductivity, microwave
cantilever, truss bridge, steel frame construction, curtain wall	emission, tunnel junction, quantum mechanics, confirmation and
1974 Feb p	
'eightfold way', high-energy physics, baryons, mesons, 'strong' for	ee, electric field, atmospheric ionization, thunderstorms, Wilson hypothesis, otstrap' atmosphere, thunderstorms replenish Earth's charge
conservation laws, Regge trajectory, resonance 'particles', 'bo hypothesis 1964 Feb p 74-	93 [296] 1953 Apr p 32–37
mathematics, physical sciences, group theory, field theory, S-ma	
theory, mathematics in physics 1964 Sept p	128–146 of non-uniform electric fields 1960 Dec p 106–116
alternating-gradient synchrotron, omega-minus particle, bubble	bioluminescence, electric fishes, animal navigation 1963 Mar p 50-59
chamber, particle accelerator, high-energy physics, U S Broo	khaven Gunn effect, microwave emission, negative resistance, solid state
National Laboratory experiment 1964 Oct einkorn, wheat, wild einkorn, emmer, hybrid cells, fungi, chromos	
doubling, plant breeding, origin and perfection of wheat	plasma, solar radiation, ionosphere, Earth magnetic field,
1953 July	
Einstein, relativity, photoelectric effect, work of Albert Einstein	clouds from rockets 1968 Nov p 80–92
appraised at 70 1949 Mar	
quantum mechanics, Planck, science history, spectroscopy, black	ck body, magnetic field, behavior of atoms under high pressure
resonators, photoelectric effect, Compton effect, quantum ju 1952 Mar p 47-	
tributes to Albert Einstein by Niels Bohr and I I Rabi	synapse, acetylcholine, animal behavior, nerve impulse,
1955 June	
interview with Albert Einstein two weeks before his death	bioluminescence, electric field, animal navigation 1963 Mar p 50-59
1955 July	
gravity, inertia, Galilean relativity, frames of reference, philoso science, relativity, identity of inertia and gravity	phy of indoor lighting 1957 Aug p 40-47 [221] incandescent lamp, industral research, science history, Edison, Thomas
1957 Feb p	
Lorentz transformation, relativity, child development, child's v	new of indoor lighting panels 1951 Mar p 28
reality 1957 Mar	
gravity, time-space continuum, electromagnetism 1961 Mar p	
publishes 'unified field theory' 1950 F einsteinium, californium, table of elements, fermium, 'synthetic' e	eb p 24 mineral resources, the Amazon frontier 1948 May p 11–14 lements, Hauksbee, light, science history, life and work of Francis Hauksbee
transuranium elements, mendelevium, radioactive decay, pe	
table at 101 1956 Dec p 66	-80 [243] alternating current, high-voltage transmission, power transmission.
El Inga site, anthropology, Paleolithic culture, stone tools, obsidi	
Andes, prehistoric man in the Andes 1963 May p El Niño, Peru Current, anchovy, guano, seagulls, upwelling	
1954 Mar	battery, electrochemistry, Volta, Galvani, Volta's contributions, biography 1965 Jan p 82–91
anchovy crisis, fishing, upwelling, Peru Current, Peruvian anch	ovy fission reactor, energy demand, nuclear power, fossil fuel, energy
1973 June p 22-	29 [1273] economics, history and prospects of nuclear power in US
Elamite culture, ziggurat, religion, Tower of Babel, Biblical arche	
1000 B C, Iran 1961 Jan ancient trade, archeology, writing, Mesopotamian culture, Per.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Sumer, Iran, Tepe Yahya 1971 June p 102-	111 [660] magnetohydrodynamic plasma generator 1959 Dec. p. 80
eland, malnutrition, food supply, human population, hunger, hu	nan platinum catalyst fuel cell 1963 June p 78
nutrition, Incaparina, capybara, manatee, mussels, developi	ng Passamaquoddy Bay project 1963 Sept p 83
countries, unorthodox food sources 1967 Feb p 27- elastase, catalytic proteins, enzyme action, protein-cutting enzym	1504 TED P 06
proteolytic enzymes, serum proteins, chymotrypsin, trypsin	nuclear capacity worldwide 1965 Sept p 80 nuclear power prospects 1966 Feb p 50
1974 July p 74-	88 [1301] load-leveling 1977 July p. 58
elastic energy, adhesive, molecular attraction, surface tension, ep	loxy electric power generation, gas turbine, aircraft propulsion, centralized
resins, molecular repulsion, micromechanics of adhesion 1962 Apr p	compressor, axial-flow compressor, ducted fan 1953 Nov. p. 65-72
elastin, collagen, keratın, myosın, fıbrın, cell, polymers polymer	the state of the s
cells 1957 Sept p 204	1-216 [35] ship propulsion steam turbines, turbine blade design construction of
collagen, fibroblasts, microfibrils 1971 June p 44.	-52 [1225] turbines applications, history 1969 Apr. p. 100_110
elastomers, butadiene, rubber synthesis, isoprene, vulcanization, synthetic rubber, molecular structure 1956 Nov	tarea, Earth heat, geothermal power 1972 for a 70 77 report
polymers, X-ray diffraction, molecular structure, mechanical	automobile propulsion, energy storage, composite materials, materials
of grant molecules 1957 Sept p	120-134 automatic control computer technology generator control
	1074 No. 24 44
election-district boundaries, computers 1964 Mar elections, mass communications public opinion, attitude survey	photovoltaic conversion semiconductor technology, silicon-crystal
1953 May	Structure, Solar Cells 1074 O

	at a series
electric 'wind', electric field, electrophoresis, non-uniform electric field, applications of non-uniform electric fields 1960 Dec p 106-1	
electrical conductivity, crystal structure, solid-state electronics. Y-roy	suppression, magnetiane veinere, magnetic levitation,
crystallography, metals, semiconductor, nonmetals, materials technology, amorphous solid 1967 Sept. p. 80-	electromagnetic force, matter wave posted dueles accordants
Fermi surface, semiconductor, materials technology, quantum	nuclear forces, gravitation, field theory, fundamental research
mechanics, charge carriers, electron mean free path, electrical	quantum jumps, corpuscular streams, what is matter?
properties of materials 1967 Sept. p. 194. 2	04 1953 Sept p 52-57 [241]
electrical little, Franklin, science history, sentry-box experiment	nuclear forces, proton, neutron, mesons, particle scattering, high- energy physics, fundamental research, what holds the nucleus
electrical nature of lightning, Benjamin Franklin, life and work	together? 1953 Sept p 58-63
1948 Aug p. 36	particle interaction, high-energy physics, gauge theory, field theory,
electrical induction, stellar magnetic fields, cosmic radiation, radio emissions, megnetohydrodynamics, electricity in space	'weak' force, 'strong' force 1974 July p 50-59
	particle interaction, gauge theory, neutrino interactions, 'weak' force,
1952 May p 26-2 Faraday, science history, life and work of Michael Faraday	
1953 Oct n. 90-9	gravity, 'weak' force, 'strong' force, supergravity, symmetry, quest for unified theory of basic forces 1978 Feb p 126-143 [397]
science history, radiowave, Henry, life and work of Joseph Henry	electromagnetic frequency shift, artificial satellite, relativity theory,
1954 July n. 72–7	Mercury, stellar shift, perihelion shift, clock paradox, general
electrical nature of lightning, Franklin, science history, sentry-box	relativity, testing Einstein's general theory of relativity
experiment, 'electrical fluid', Benjamin Franklin, life and work	1959 May p 149-160
1948 Aug p 36-4 electrical properties of metals, BCS theory, crystal structure, intermetallic	electromagnetic induction, dynamo, science history, Faraday to dynamo
compounds, intercalated crystals, superconductors, layered	electromagnetic pulse, see EMP
superconductors 1971 Nov p 22–3	
electrical propulsion, ion propulsion, plasma jet, jet velocity, cesium-ion	particle accelerator, search for elementary particle of magnetism
beam, magnetohydrodynamics, space exploration	1963 Dec. p 122–131
1961 Mar p 57-6	
electrical resistance, superconductivity, magnetism, cryogenics, upper limit of temperature of superconductivity	1976 May p 86-96
1957 Nov p 92–103 [227	electron-hole liquid, exciton, quantum mechanics, semiconductor 1976 June p 28-37
electrocardiography, cardiology, cardiac 'conduction bundle', electrical	electromagnetic spectrum, radio, science history, electromagnetism
events in the heart 1961 Nov p 132-141	Hertzian' waves, Heinrich Hertz biography 1957 Dec p 98-106
cardiac arrhythmia, intensive care, coronary care unit, fibrillation,	arradiation standards, microwave diodes, microwave radiation, 175k
coronary occlusion, nerve conduction, heart infarct	estimation, technology assessment 1972 Feb p 13-21
1968 July p 19–27 learning, autonomic nervous system, heart rate, blood pressure, curare,	carrier-wave modulation, coaxial cable, communication technology, fiber optics, radiowave, communication channels, bandwidth nose
learning voluntary control of autonomic nervous system	1972 Sept p 98-113
1970 Jan p 30–39 [525]	electron manipulation, electron storage rings, spectroscopy,
electrochemical machining, electrolysis, metal forming	synchrotron radiation, X-ray lithography, X-ray probe, uses of synchrotron radiation 1977 June p 32-41 [365]
1974 Jan p 30-37 electrochemistry, phlogiston theory, electrolysis, Davy lamp, science	synchrotron radiation 1977 June p 32-41 [203] electromagnetic waves, Earth core, micropulsations, magnetic field, Earth
history, Humphry Davy, biography 1960 June p 106–116	mantle, longest electromagnetic wave 1962 Mar p 128–137
battery, electric power, Volta, Galvani, Volta's contributions,	diffraction, light, wave-particle duality, optics, interference, photon
	emission, introduction to single topic issue on light
electrocoating, air pollution, corona discharge, fly ash, electrostatics,	1968 Sept p 30-39
electrocoating, air pollution, corona discharge, fly ash, electrostatics, photocopying, xerography, electrostatic precipitation and seperation	electromagnetism, unified field theory, gravity, nuclear forces, 'On the Generalized Theory of Gravitation', a personal account by Albert
electrocoating, air pollution, corona discharge, fly ash, electrostatics, photocopying, xerography, electrostatic precipitation and seperation 1972 Mar p 46-58	electromagnetism, unified field theory, gravity, nuclear forces, 'On the Generalized Theory of Gravitation', a personal account by Albert Einstein 1950 Apr p 13-17
electrocoating, air pollution, corona discharge, fly ash, electrostatics, photocopying, xerography, electrostatic precipitation and seperation 1972 Mar p 46-58 electroencephalography, brain, cerebral cortex, cerebrum, cerebellum, brain surgery, 'the great raveled knot', localization of brain function	electromagnetism, unified field theory, gravity, nuclear forces, 'On the Generalized Theory of Gravitation', a personal account by Albert Einstein 1950 Apr p 13-17 geomagnetism, permanent magnets, Blackett hypothesis, Elsasser-
electrocoating, air pollution, corona discharge, fly ash, electrostatics, photocopying, xerography, electrostatic precipitation and seperation 1972 Mar p 46-58 electroencephalography, brain, cerebral cortex, cerebrum, cerebellum, brain surgery, 'the great raveled knot', localization of brain function 1948 Oct p 26-39 [13]	electromagnetism, unified field theory, gravity, nuclear forces, 'On the Generalized Theory of Gravitation', a personal account by Albert Einstein 1950 Apr p 13-17 geomagnetism, permanent magnets, Blackett hypothesis, Elsasser-Rullard hypothesis, theories on origin of terrestrial magnetism
electrocoating, air pollution, corona discharge, fly ash, electrostatics, photocopying, xerography, electrostatic precipitation and seperation 1972 Mar p 46-58 electroencephalography, brain, cerebral cortex, cerebrum, cerebellum, brain surgery, 'the great raveled knot', localization of brain function 1948 Oct p 26-39 [13] brain waves, alpha rhythms, medical diagnosis, Fourier analysis,	electromagnetism, unified field theory, gravity, nuclear forces, 'On the Generalized Theory of Gravitation', a personal account by Albert Einstein 1950 Apr p 13-17 geomagnetism, permanent magnets, Blackett hypothesis, Elsasser-Bullard hypothesis, theories on origin of terrestrial magnetism 1950 June p 20-24 Maxwell's equations, field theory, life and work of James Clerk
electrocoating, air pollution, corona discharge, fly ash, electrostatics, photocopying, xerography, electrostatic precipitation and seperation 1972 Mar p 46-58 electroencephalography, brain, cerebral cortex, cerebrum, cerebellum, brain surgery, 'the great raveled knot', localization of brain function 1948 Oct p 26-39 [13] brain waves, alpha rhythms, medical diagnosis, Fourier analysis, toposcope display automata theory 1954 June p 54-63	electromagnetism, unified field theory, gravity, nuclear forces, 'On the Generalized Theory of Gravitation', a personal account by Albert Einstein 1950 Apr p 13-17 geomagnetism, permanent magnets, Blackett hypothesis, Elsasser-Bullard hypothesis, theories on origin of terrestrial magnetism 1950 June p 20-24 Maxwell's equations, field theory, life and work of James Clerk Maxwell 1955 June p 58-71
electrocoating, air pollution, corona discharge, fly ash, electrostatics, photocopying, xerography, electrostatic precipitation and seperation 1972 Mar p 46-58 electroencephalography, brain, cerebral cortex, cerebrum, cerebellum, brain surgery, 'the great raveled knot', localization of brain function 1948 Oct p 26-39 [13] brain waves, alpha rhythms, medical diagnosis, Fourier analysis, toposcope display, automata theory 1954 June p 54-63 perceptual isolation, hallucination, boredom, neuropsychology, sensory deprivation, effect of exposure to monotonous environment	electromagnetism, unified field theory, gravity, nuclear forces, 'On the Generalized Theory of Gravitation', a personal account by Albert Einstein 1950 Apr p 13-17 geomagnetism, permanent magnets, Blackett hypothesis, Elsasser-Bullard hypothesis, theories on origin of terrestrial magnetism 1950 June p 20-24 Maxwell's equations, field theory, life and work of James Clerk Maxwell 1955 June p 58-71 radio, science history, 'Hertzian' waves, electromagnetic spectrum,
electrocoating, air pollution, corona discharge, fly ash, electrostatics, photocopying, xerography, electrostatic precipitation and seperation 1972 Mar p 46-58 electroencephalography, brain, cerebral cortex, cerebrum, cerebellum, brain surgery, 'the great raveled knot', localization of brain function 1948 Oct p 26-39 [13] brain waves, alpha rhythms, medical diagnosis, Fourier analysis, toposcope display, automata theory 1954 June p 54-63 perceptual isolation, hallucination, boredom, neuropsychology, sensory deprivation, effect of exposure to monotonous environment 1957 Jan p 52-56 [430]	electromagnetism, unified field theory, gravity, nuclear forces, 'On the Generalized Theory of Gravitation', a personal account by Albert Einstein 1950 Apr p 13-17 geomagnetism, permanent magnets, Blackett hypothesis, Elsasser-Bullard hypothesis, theories on origin of terrestrial magnetism 1950 June p 20-24 Maxwell's equations, field theory, life and work of James Clerk Maxwell 1955 June p 58-71 radio, science history, 'Hertzian' waves, electromagnetic spectrum, Heinrich Hertz biography 1957 Dec p 98-106
electrocoating, air pollution, corona discharge, fly ash, electrostatics, photocopying, xerography, electrostatic precipitation and seperation 1972 Mar p 46-58 electroencephalography, brain, cerebral cortex, cerebrum, cerebellum, brain surgery, 'the great raveled knot', localization of brain function 1948 Oct p 26-39 [13] brain waves, alpha rhythms, medical diagnosis, Fourier analysis, toposcope display, automata theory 1954 June p 54-63 perceptual isolation, hallucination, boredom, neuropsychology, sensory deprivation, effect of exposure to monotonous environment 1957 Jan p 52-56 [430] brain waves, learning, sleep, conditioned behavior, correlation of brain	electromagnetism, unified field theory, gravity, nuclear forces, 'On the Generalized Theory of Gravitation', a personal account by Albert Einstein 1950 Apr p 13-17 geomagnetism, permanent magnets, Blackett hypothesis, Elsasser-Bullard hypothesis, theories on origin of terrestrial magnetism 1950 June p 20-24 Maxwell's equations, field theory, life and work of James Clerk Maxwell 1955 June p 58-71 radio, science history, 'Hertzian' waves, electromagnetic spectrum, Heinrich Hertz biography 1957 Dec p 98-106 magnetism, magnetic field, force-free windings, million gauss field
electrocoating, air pollution, corona discharge, fly ash, electrostatics, photocopying, xerography, electrostatic precipitation and seperation 1972 Mar p 46–58 electroencephalography, brain, cerebral cortex, cerebrum, cerebellum, brain surgery, 'the great raveled knot', localization of brain function 1948 Oct p 26–39 [13] brain waves, alpha rhythms, medical diagnosis, Fourier analysis, toposcope display, automata theory 1954 June p 54–63 perceptual isolation, hallucination, boredom, neuropsychology, sensory deprivation, effect of exposure to monotonous environment 1957 Jan p 52–56 [430] brain waves, learning, sleep, conditioned behavior, correlation of brain waves to behavior	electromagnetism, unified field theory, gravity, nuclear forces, 'On the Generalized Theory of Gravitation', a personal account by Albert Einstein 1950 Apr p 13-17 geomagnetism, permanent magnets, Blackett hypothesis, Elsasser-Bullard hypothesis, theories on origin of terrestrial magnetism 1950 June p 20-24 Maxwell's equations, field theory, life and work of James Clerk Maxwell 1955 June p 58-71 radio, science history, 'Hertzian' waves, electromagnetic spectrum, Heinrich Hertz biography 1957 Dec p 98-106 magnetism, magnetic field, force-free windings, million gauss field 1958 Feb p 28-33 geomagnetism, geophysics, magnetohydrodynamics, convection
electrocoating, air pollution, corona discharge, fly ash, electrostatics, photocopying, xerography, electrostatic precipitation and seperation 1972 Mar p 46-58 electroencephalography, brain, cerebral cortex, cerebrum, cerebellum, brain surgery, 'the great raveled knot', localization of brain function 1948 Oct p 26-39 [13] brain waves, alpha rhythms, medical diagnosis, Fourier analysis, toposcope display, automata theory 1954 June p 54-63 perceptual isolation, hallucination, boredom, neuropsychology, sensory deprivation, effect of exposure to monotonous environment 1957 Jan p 52-56 [430] brain waves, learning, sleep, conditioned behavior, correlation of brain waves to behavior 1959 Aug p 89-96 dreams, sleep, REM sleep, function of dreams	electromagnetism, unified field theory, gravity, nuclear forces, 'On the Generalized Theory of Gravitation', a personal account by Albert Einstein 1950 Apr p 13-17 geomagnetism, permanent magnets, Blackett hypothesis, Elsasser-Bullard hypothesis, theories on origin of terrestrial magnetism 1950 June p 20-24 Maxwell's equations, field theory, life and work of James Clerk Maxwell 1955 June p 58-71 radio, science history, 'Hertzian' waves, electromagnetic spectrum, Heinrich Hertz biography 1957 Dec p 98-106 magnetism, magnetic field, force-free windings, million gauss field 1958 Feb p 28-33 geomagnetism, geophysics, magnetohydrodynamics, convection currents. Earth core, one of terrestial magnetism
electrocoating, air pollution, corona discharge, fly ash, electrostatics, photocopying, xerography, electrostatic precipitation and seperation 1972 Mar p 46-58 electroencephalography, brain, cerebral cortex, cerebrum, cerebellum, brain surgery, 'the great raveled knot', localization of brain function 1948 Oct p 26-39 [13] brain waves, alpha rhythms, medical diagnosis, Fourier analysis, toposcope display, automata theory 1954 June p 54-63 perceptual isolation, hallucination, boredom, neuropsychology, sensory deprivation, effect of exposure to monotonous environment 1957 Jan p 52-56 [430] brain waves, learning, sleep, conditioned behavior, correlation of brain waves to behavior 1959 Aug p 89-96 dreams, sleep, REM sleep, function of dreams 1960 Nov p 82-88 [460] brain waves, computerized EEG observation of behavior in man,	electromagnetism, unified field theory, gravity, nuclear forces, 'On the Generalized Theory of Gravitation', a personal account by Albert Einstein 1950 Apr p 13-17 geomagnetism, permanent magnets, Blackett hypothesis, Elsasser-Bullard hypothesis, theories on origin of terrestrial magnetism 1950 June p 20-24 Maxwell's equations, field theory, life and work of James Clerk Maxwell 1955 June p 58-71 radio, science history, 'Hertzian' waves, electromagnetic spectrum, Heinrich Hertz biography 1957 Dec p 98-106 magnetism, magnetic field, force-free windings, million gauss field 1958 Feb p 28-33 geomagnetism, geophysics, magnetohydrodynamics, convection currents, Earth core, origin of terrestial magnetism
electrocoating, air pollution, corona discharge, fly ash, electrostatics, photocopying, xerography, electrostatic precipitation and seperation 1972 Mar p 46–58 electroencephalography, brain, cerebral cortex, cerebrum, cerebellum, brain surgery, 'the great raveled knot', localization of brain function 1948 Oct p 26–39 [13] brain waves, alpha rhythms, medical diagnosis, Fourier analysis, toposcope display, automata theory 1954 June p 54–63 perceptual isolation, hallucination, boredom, neuropsychology, sensory deprivation, effect of exposure to monotonous environment 1957 Jan p 52–56 [430] brain waves, learning, sleep, conditioned behavior, correlation of brain waves to behavior 1959 Aug p 89–96 dreams, sleep, REM sleep, function of dreams 1960 Nov p 82–88 [460] brain waves, computerized EEG observation of behavior in man, 1962 June p 142–153	electromagnetism, unified field theory, gravity, nuclear forces, 'On the Generalized Theory of Gravitation', a personal account by Albert Einstein 1950 Apr p 13-17 geomagnetism, permanent magnets, Blackett hypothesis, Elsasser-Bullard hypothesis, theories on origin of terrestrial magnetism 1950 June p 20-24 Maxwell's equations, field theory, life and work of James Clerk Maxwell 1955 June p 58-71 radio, science history, 'Hertzian' waves, electromagnetic spectrum, Heinrich Hertz biography 1957 Dec p 98-106 magnetism, magnetic field, force-free windings, million gauss field 1958 Feb p 28-33 geomagnetism, geophysics, magnetohydrodynamics, convection currents, Earth core, origin of terrestial magnetism 1958 May p 44-48 molecular physics, intermolecular force, Coulomb force, measurement of intermolecular force between macroscopic bodies
electrocoating, air pollution, corona discharge, fly ash, electrostatics, photocopying, xerography, electrostatic precipitation and seperation 1972 Mar p 46–58 electroencephalography, brain, cerebral cortex, cerebrum, cerebellum, brain surgery, 'the great raveled knot', localization of brain function 1948 Oct p 26–39 [13] brain waves, alpha rhythms, medical diagnosis, Fourier analysis, toposcope display, automata theory 1954 June p 54–63 perceptual isolation, hallucination, boredom, neuropsychology, sensory deprivation, effect of exposure to monotonous environment 1957 Jan p 52–56 [430] brain waves, learning, sleep, conditioned behavior, correlation of brain waves to behavior 1959 Aug p 89–96 dreams, sleep, REM sleep, function of dreams 1960 Nov p 82–88 [460] brain waves, computerized EEG observation of behavior in man, localization of brain function 1962 June p 142–153 dreams, sleep research, reticular formation, brain waves, paradoxical	electromagnetism, unified field theory, gravity, nuclear forces, 'On the Generalized Theory of Gravitation', a personal account by Albert Einstein 1950 Apr p 13-17 geomagnetism, permanent magnets, Blackett hypothesis, Elsasser-Bullard hypothesis, theories on origin of terrestrial magnetism 1950 June p 20-24 Maxwell's equations, field theory, life and work of James Clerk Maxwell 1955 June p 58-71 radio, science history, 'Hertzian' waves, electromagnetic spectrum, Heinrich Hertz biography 1957 Dec p 98-106 magnetism, magnetic field, force-free windings, million gauss field 1958 Feb p 28-33 geomagnetism, geophysics, magnetohydrodynamics, convection currents, Earth core, origin of terrestial magnetism 1958 May p 44-48 molecular physics, intermolecular force, Coulomb force, measurement of intermolecular force between macroscopic bodies 1960 July p 47-53
electrocoating, air pollution, corona discharge, fly ash, electrostatics, photocopying, xerography, electrostatic precipitation and seperation 1972 Mar p 46–58 electroencephalography, brain, cerebral cortex, cerebrum, cerebellum, brain surgery, 'the great raveled knot', localization of brain function 1948 Oct p 26–39 [13] brain waves, alpha rhythms, medical diagnosis, Fourier analysis, toposcope display, automata theory 1954 June p 54–63 perceptual isolation, hallucination, boredom, neuropsychology, sensory deprivation, effect of exposure to monotonous environment 1957 Jan p 52–56 [430] brain waves, learning, sleep, conditioned behavior, correlation of brain waves to behavior 1959 Aug p 89–96 dreams, sleep, REM sleep, function of dreams 1960 Nov p 82–88 [460] brain waves, computerized EEG observation of behavior in man, localization of brain function 1962 June p 142–153 dreams, sleep research, reticular formation, brain waves, paradoxical sleep, REM sleep, cat brain, the states of sleep	electromagnetism, unified field theory, gravity, nuclear forces, 'On the Generalized Theory of Gravitation', a personal account by Albert Einstein 1950 Apr p 13-17 geomagnetism, permanent magnets, Blackett hypothesis, Elsasser-Bullard hypothesis, theories on origin of terrestrial magnetism 1950 June p 20-24 Maxwell's equations, field theory, life and work of James Clerk Maxwell 1955 June p 58-71 radio, science history, 'Hertzian' waves, electromagnetic spectrum, Heinrich Hertz biography 1957 Dec p 98-106 magnetism, magnetic field, force-free windings, million gauss field 1958 Feb p 28-33 geomagnetism, geophysics, magnetohydrodynamics, convection currents, Earth core, origin of terrestial magnetism 1958 May p 44-48 molecular physics, intermolecular force, Coulomb force, measurement of intermolecular force between macroscopic bodies 1960 July p 47-53 gravity, time space continuum Einstein 1961 Mar p 94-106
electrocoating, air pollution, corona discharge, fly ash, electrostatics, photocopying, xerography, electrostatic precipitation and seperation 1972 Mar p 46–58 electroencephalography, brain, cerebral cortex, cerebrum, cerebellum, brain surgery, 'the great raveled knot', localization of brain function 1948 Oct p 26–39 [13] brain waves, alpha rhythms, medical diagnosis, Fourier analysis, toposcope display, automata theory 1954 June p 54–63 perceptual isolation, hallucination, boredom, neuropsychology, sensory deprivation, effect of exposure to monotonous environment 1957 Jan p 52–56 [430] brain waves, learning, sleep, conditioned behavior, correlation of brain waves to behavior 1959 Aug p 89–96 dreams, sleep, REM sleep, function of dreams 1960 Nov p 82–88 [460] brain waves, computerized EEG observation of behavior in man, localization of brain function 1962 June p 142–153 dreams, sleep research, reticular formation, brain waves, paradoxical sleep, REM sleep, cat brain, the states of sleep 1967 Feb p 62–72 [504] electrolysis electrochemistry, phlogiston theory, Davy lamp, science	electromagnetism, unified field theory, gravity, nuclear forces, 'On the Generalized Theory of Gravitation', a personal account by Albert Einstein 1950 Apr p 13-17 geomagnetism, permanent magnets, Blackett hypothesis, Elsasser-Bullard hypothesis, theories on origin of terrestrial magnetism 1950 June p 20-24 Maxwell's equations, field theory, life and work of James Clerk Maxwell 1955 June p 58-71 radio, science history, 'Hertzian' waves, electromagnetic spectrum, Heinrich Hertz biography 1957 Dec p 98-106 magnetism, magnetic field, force-free windings, million gauss field 1958 Feb p 28-33 geomagnetism, geophysics, magnetohydrodynamics, convection currents, Earth core, origin of terrestial magnetism 1958 May p 44-48 molecular physics, intermolecular force, Coulomb force, measurement of intermolecular force between macroscopic bodies 1960 July p 47-53 gravity, time space continuum Einstein 1961 Mar p 94-106 superconductivity, shaped field, magnetic bottle, materials technology, development and applications of supermagnetis
electrocoating, air pollution, corona discharge, fly ash, electrostatics, photocopying, xerography, electrostatic precipitation and seperation 1972 Mar p 46–58 electroencephalography, brain, cerebral cortex, cerebrum, cerebellum, brain surgery, 'the great raveled knot', localization of brain function 1948 Oct p 26–39 [13] brain waves, alpha rhythms, medical diagnosis, Fourier analysis, toposcope display, automata theory 1954 June p 54–63 perceptual isolation, hallucination, boredom, neuropsychology, sensory deprivation, effect of exposure to monotonous environment 1957 Jan p 52–56 [430] brain waves, learning, sleep, conditioned behavior, correlation of brain waves to behavior 1959 Aug p 89–96 dreams, sleep, REM sleep, function of dreams 1960 Nov p 82–88 [460] brain waves, computerized EEG observation of behavior in man, localization of brain function 1962 June p 142–153 dreams, sleep research, reticular formation, brain waves, paradoxical sleep, REM sleep, cat brain, the states of sleep 1967 Feb p 62–72 [504] electrolysis, electrochemistry, phlogiston theory, Davy lamp, science 1960 June p 106–116	electromagnetism, unified field theory, gravity, nuclear forces, 'On the Generalized Theory of Gravitation', a personal account by Albert Einstein 1950 Apr p 13-17 geomagnetism, permanent magnets, Blackett hypothesis, Elsasser-Bullard hypothesis, theories on origin of terrestrial magnetism 1950 June p 20-24 Maxwell's equations, field theory, life and work of James Clerk Maxwell 1955 June p 58-71 radio, science history, 'Hertzian' waves, electromagnetic spectrum, Heinrich Hertz biography 1957 Dec p 98-106 magnetism, magnetic field, force-free windings, million gauss field 1958 Feb p 28-33 geomagnetism, geophysics, magnetohydrodynamics, convection currents, Earth core, origin of terrestial magnetism 1958 May p 44-48 molecular physics, intermolecular force, Coulomb force, measurement of intermolecular force between macroscopic bodies 1960 July p 47-53 gravity, time space continuum Einstein 1961 Mar p 94-106 superconductivity, shaped field, magnetic bottle, materials technology, development and applications of supermagnets
electrocoating, air pollution, corona discharge, fly ash, electrostatics, photocopying, xerography, electrostatic precipitation and seperation 1972 Mar p 46–58 electroencephalography, brain, cerebral cortex, cerebrum, cerebellum, brain surgery, 'the great raveled knot', localization of brain function 1948 Oct p 26–39 [13] brain waves, alpha rhythms, medical diagnosis, Fourier analysis, toposcope display, automata theory 1954 June p 54–63 perceptual isolation, hallucination, boredom, neuropsychology, sensory deprivation, effect of exposure to monotonous environment 1957 Jan p 52–56 [430] brain waves, learning, sleep, conditioned behavior, correlation of brain waves to behavior 1959 Aug p 89–96 dreams, sleep, REM sleep, function of dreams 1960 Nov p 82–88 [460] brain waves, computerized EEG observation of behavior in man, localization of brain function 1962 June p 142–153 dreams, sleep research, reticular formation, brain waves, paradoxical sleep, REM sleep, cat brain, the states of sleep 1967 Feb p 62–72 [504] electrolysis, electrochemistry, phlogiston theory, Davy lamp, science history, Humphry Davy, biography 1974 Jan p 30–37 electrochemical machining, metal forming 1974 Jan p 30–37 electrochemical machining, metal forming	electromagnetism, unified field theory, gravity, nuclear forces, 'On the Generalized Theory of Gravitation', a personal account by Albert Einstein 1950 Apr p 13-17 geomagnetism, permanent magnets, Blackett hypothesis, Elsasser-Bullard hypothesis, theories on origin of terrestrial magnetism 1950 June p 20-24 Maxwell's equations, field theory, life and work of James Clerk Maxwell 1955 June p 58-71 radio, science history, 'Hertzian' waves, electromagnetic spectrum, Heinrich Hertz biography 1957 Dec p 98-106 magnetism, magnetic field, force-free windings, million gauss field 1958 Feb p 28-33 geomagnetism, geophysics, magnetohydrodynamics, convection currents, Earth core, origin of terrestial magnetism 1958 May p 44-48 molecular physics, intermolecular force, Coulomb force, measurement of intermolecular force between macroscopic bodies 1960 July p 47-53 gravity, time space continuum Einstein 1961 Mar p 94-106 superconductivity, shaped field, magnetic bottle, materials technology, development and applications of supermagnets 1962 June p 60-67 [279] muonium, muon, electron, elementary particles positronium, atom
electrocoating, air pollution, corona discharge, fly ash, electrostatics, photocopying, xerography, electrostatic precipitation and seperation 1972 Mar p 46–58 electroencephalography, brain, cerebral cortex, cerebrum, cerebellum, brain surgery, 'the great raveled knot', localization of brain function 1948 Oct p 26–39 [13] brain waves, alpha rhythms, medical diagnosis, Fourier analysis, toposcope display, automata theory 1954 June p 54–63 perceptual isolation, hallucination, boredom, neuropsychology, sensory deprivation, effect of exposure to monotonous environment 1957 Jan p 52–56 [430] brain waves, learning, sleep, conditioned behavior, correlation of brain waves to behavior 1959 Aug p 89–96 dreams, sleep, REM sleep, function of dreams 1960 Nov p 82–88 [460] brain waves, computerized EEG observation of behavior in man, localization of brain function 1962 June p 142–153 dreams, sleep research, reticular formation, brain waves, paradoxical sleep, REM sleep, cat brain, the states of sleep 1967 Feb p 62–72 [504] electrolysis, electrochemistry, phlogiston theory, Davy lamp, science history, Humphry Davy, biography 1974 Jan p 30–37 electrochemical machining, metal forming 1974 Jan p 30–37 electroorganic chemistry, electrolytic chemical processes	electromagnetism, unified field theory, gravity, nuclear forces, 'On the Generalized Theory of Gravitation', a personal account by Albert Einstein 1950 Apr p 13-17 geomagnetism, permanent magnets, Blackett hypothesis, Elsasser-Bullard hypothesis, theories on origin of terrestrial magnetism 1950 June p 20-24 Maxwell's equations, field theory, life and work of James Clerk Maxwell 1955 June p 58-71 radio, science history, 'Hertzian' waves, electromagnetic spectrum, Heinrich Hertz biography 1957 Dec p 98-106 magnetism, magnetic field, force-free windings, million gaiuss field 1958 Feb p 28-33 geomagnetism, geophysics, magnetohydrodynamics, convection currents, Earth core, origin of terrestial magnetism 1958 May p 44-48 molecular physics, intermolecular force, Coulomb force, measurement of intermolecular force between macroscopic bodies 1960 July p 47-53 gravity, time space continuum Einstein 1961 Mar p 94-106 superconductivity, shaped field, magnetic bottle, materials technology, development and applications of supermagnets 1962 June p 60-67 [279] muonium, muon, electron, elementary particles positronium, atom structure of muonium 1966 Apr p 93-100
electrocoating, air pollution, corona discharge, fly ash, electrostatics, photocopying, xerography, electrostatic precipitation and seperation 1972 Mar p 46–58 electroencephalography, brain, cerebral cortex, cerebrum, cerebellum, brain surgery, 'the great raveled knot', localization of brain function 1948 Oct p 26–39 [13] brain waves, alpha rhythms, medical diagnosis, Fourier analysis, toposcope display, automata theory 1954 June p 54–63 perceptual isolation, hallucination, boredom, neuropsychology, sensory deprivation, effect of exposure to monotonous environment 1957 Jan p 52–56 [430] brain waves, learning, sleep, conditioned behavior, correlation of brain waves to behavior 1959 Aug p 89–96 dreams, sleep, REM sleep, function of dreams 1960 Nov p 82–88 [460] brain waves, computerized EEG observation of behavior in man, localization of brain function 1962 June p 142–153 dreams, sleep research, reticular formation, brain waves, paradoxical sleep, REM sleep, cat brain, the states of sleep 1967 Feb p 62–72 [504] electrolysis, electrochemistry, phlogiston theory, Davy lamp, science history, Humphry Davy, biography 1967 June p 106–116 1974 Jan p 30–37 electrochemical machining, metal forming 1974 Jan p 30–37 electrolyte balance, shock, traumatic shock, capillary bed, cardiovascular 1962 Dee p 62–68	electromagnetism, unified field theory, gravity, nuclear forces, 'On the Generalized Theory of Gravitation', a personal account by Albert Einstein 1950 Apr p 13-17 geomagnetism, permanent magnets, Blackett hypothesis, Elsasser-Bullard hypothesis, theories on origin of terrestrial magnetism 1950 June p 20-24 Maxwell's equations, field theory, life and work of James Clerk Maxwell 1955 June p 58-71 radio, science history, 'Hertzian' waves, electromagnetic spectrum, Heinrich Hertz biography 1957 Dec p 98-106 magnetism, magnetic field, force-free windings, million gauss field 1958 Feb p 28-33 geomagnetism, geophysics, magnetohydrodynamics, convection currents, Earth core, origin of terrestial magnetism 1958 May p 44-48 molecular physics, intermolecular force, Coulomb force, measurement of intermolecular force between macroscopic bodies 1960 July p 47-53 gravity, time space continuum Einstein 1961 Mar p 94-106 superconductivity, shaped field, magnetic bottle, materials technology, development and applications of supermagnets 1962 June p 60-67 [279] muonium, muon, electron, elementary particles positronium, atom structure of muonium 1966 Apr p 93-100 miobium alloys, magnetism, superconductors, proton beam focusing seperation of intense magnetic fields 1967 Mar p 114-123
electrocoating, air pollution, corona discharge, fly ash, electrostatics, photocopying, xerography, electrostatic precipitation and seperation 1972 Mar p 46–58 electroencephalography, brain, cerebral cortex, cerebrum, cerebellum, brain surgery, 'the great raveled knot', localization of brain function 1948 Oct p 26–39 [13] brain waves, alpha rhythms, medical diagnosis, Fourier analysis, toposcope display, automata theory 1954 June p 54–63 perceptual isolation, hallucination, boredom, neuropsychology, sensory deprivation, effect of exposure to monotonous environment 1957 Jan p 52–56 [430] brain waves, learning, sleep, conditioned behavior, correlation of brain waves to behavior 1959 Aug p 89–96 dreams, sleep, REM sleep, function of dreams 1960 Nov p 82–88 [460] brain waves, computerized EEG observation of behavior in man, localization of brain function 1962 June p 142–153 dreams, sleep research, reticular formation, brain waves, paradoxical sleep, REM sleep, cat brain, the states of sleep 1967 Feb p 62–72 [504] electrolysis, electrochemistry, phlogiston theory, Davy lamp, science history, Humphry Davy, biography 1967 June p 106–116 electrochemical machining, metal forming 1974 Jan p 30–37 electrochemical machining, metal forming 1974 Jan p 30–37 electrolyte balance, shock, traumatic shock, capillary bed, cardiovascular 1952 Dec p 62–68 system, blood transfusion 1952 Dec p 62–68	electromagnetism, unified field theory, gravity, nuclear forces, 'On the Generalized Theory of Gravitation', a personal account by Albert Einstein 1950 Apr p 13-17 geomagnetism, permanent magnets, Blackett hypothesis, Elsasser-Bullard hypothesis, theories on origin of terrestrial magnetism 1950 June p 20-24 Maxwell's equations, field theory, life and work of James Clerk Maxwell 1955 June p 58-71 radio, science history, 'Hertzian' waves, electromagnetic spectrum, Heinrich Hertz biography 1957 Dec p 98-106 magnetism, magnetic field, force-free windings, million gauss field 1958 Feb p 28-33 geomagnetism, geophysics, magnetohydrodynamics, convection currents, Earth core, origin of terrestial magnetism 1958 May p 44-48 molecular physics, intermolecular force, Coulomb force, measurement of intermolecular force between macroscopic bodies 1960 July p 47-53 gravity, time space continuum Einstein 1961 Mar p 94-106 superconductivity, shaped field, magnetic bottle, materials technology, development and applications of supermagnets 1962 June p 60-67 [279] muonium, muon, electron, elementary particles positronium, atom structure of muonium 1964 Apr p 93-100 miobium alloys, magnetism, superconductors, proton beam focusing generation of intense magnetic fields 1967 Mar p 114-123 electron discovery, induction coil radio discovery, X-ray discovery,
electrocoating, air pollution, corona discharge, fly ash, electrostatics, photocopying, xerography, electrostatic precipitation and seperation 1972 Mar p 46–58 electroencephalography, brain, cerebral cortex, cerebrum, cerebellum, brain surgery, 'the great raveled knot', localization of brain function 1948 Oct p 26–39 [13] brain waves, alpha rhythms, medical diagnosis, Fourier analysis, toposcope display, automata theory 1954 June p 54–63 perceptual isolation, hallucination, boredom, neuropsychology, sensory deprivation, effect of exposure to monotonous environment 1957 Jan p 52–56 [430] brain waves, learning, sleep, conditioned behavior, correlation of brain waves to behavior 1959 Aug p 89–96 dreams, sleep, REM sleep, function of dreams 1960 Nov p 82–88 [460] brain waves, computerized EEG observation of behavior in man, localization of brain function 1962 June p 142–153 dreams, sleep research, reticular formation, brain waves, paradoxical sleep, REM sleep, cat brain, the states of sleep 1967 Feb p 62–72 [504] electrolysis, electrochemistry, phlogiston theory, Davy lamp, science history, Humphry Davy, biography 1967 June p 106–116 electrochemical machining, metal forming 1974 Jan p 30–37 electrochemical machining, metal forming 1974 Jan p 30–37 electrolyte balance, shock, traumatic shock, capillary bed, cardiovascular 1952 Dec p 62–68 system, blood transfusion 1952 Dec p 62–68	electromagnetism, unified field theory, gravity, nuclear forces, 'On the Generalized Theory of Gravitation', a personal account by Albert Einstein 1950 Apr p 13-17 geomagnetism, permanent magnets, Blackett hypothesis, Elsasser-Bullard hypothesis, theories on origin of terrestrial magnetism 1950 June p 20-24 Maxwell's equations, field theory, life and work of James Clerk Maxwell 1955 June p 58-71 radio, science history, 'Hertzian' waves, electromagnetic spectrum, Heinrich Hertz biography 1957 Dec p 98-106 magnetism, magnetic field, force-free windings, million gauss field 1958 Feb p 28-33 geomagnetism, geophysics, magnetohydrodynamics, convection currents, Earth core, origin of terrestial magnetism 1958 May p 44-48 molecular physics, intermolecular force, Coulomb force, measurement of intermolecular force between macroscopic bodies 1960 July p 47-53 gravity, time space continuum Einstein 1961 Mar p 94-106 superconductivity, shaped field, magnetic bottle, materials technology, development and applications of supermagnets 1962 June p 60-67 [279] muonium, muon, electron, elementary particles positronium, atom structure of muonium 1966 Apr p 93-100 niobium alloys, magnetism, superconductors, proton beam focusing generation of intense magnetic fields 1967 Mar p 114-123 electron discovery, induction coil radio discovery, X-ray discovery, science history 1971 May p 80-87
electrocoating, air pollution, corona discharge, fly ash, electrostatics, photocopying, xerography, electrostatic precipitation and seperation 1972 Mar p 46–58 electroencephalography, brain, cerebral cortex, cerebrum, cerebellum, brain surgery, 'the great raveled knot', localization of brain function 1948 Oct p 26–39 [13] brain waves, alpha rhythms, medical diagnosis, Fourier analysis, toposcope display, automata theory 1954 June p 54–63 perceptual isolation, hallucination, boredom, neuropsychology, sensory deprivation, effect of exposure to monotonous environment 1957 Jan p 52–56 [430] brain waves, learning, sleep, conditioned behavior, correlation of brain waves to behavior 1959 Aug p 89–96 dreams, sleep, REM sleep, function of dreams brain waves, computerized EEG observation of behavior in man, localization of brain function 1960 Nov p 82–88 [460] brain waves, computerized EEG observation of behavior in man, localization of brain function 1962 June p 142–153 dreams, sleep research, reticular formation, brain waves, paradoxical sleep, REM sleep, cat brain, the states of sleep 1967 Feb p 62–72 [504] electrolysis, electrochemistry, phlogiston theory, Davy lamp, science history, Humphry Davy, biography 1960 June p 106–116 electrochemical machining, metal forming 1974 Jan p 30–37 electrochemical machining, metal forming 1974 Jan p 30–37 electrolyte balance, shock, traumatic shock, capillary bed, cardiovascular 1952 Dec p 62–68 system, blood transfusion 1952 Dec p 62–68 system, blood transfusion 1956 Jan p 70–76	electromagnetism, unified field theory, gravity, nuclear forces, 'On the Generalized Theory of Gravitation', a personal account by Albert Einstein 1950 Apr p 13-17 geomagnetism, permanent magnets, Blackett hypothesis, Elsasser-Bullard hypothesis, theories on origin of terrestrial magnetism 1950 June p 20-24 Maxwell's equations, field theory, life and work of James Clerk Maxwell 1955 June p 58-71 radio, science history, 'Hertzian' waves, electromagnetic spectrum, Heinrich Hertz biography 1957 Dec p 98-106 magnetism, magnetic field, force-free windings, million gauss field 1958 Feb p 28-33 geomagnetism, geophysics, magnetohydrodynamics, convection currents, Earth core, origin of terrestial magnetism 1958 May p 44-48 molecular physics, intermolecular force, Coulomb force, measurement of intermolecular force between macroscopic bodies 1960 July p 47-53 gravity, time space continuum Einstein 1961 Mar p 94-106 superconductivity, shaped field, magnetic bottle, materials technology, development and applications of supermagnets 1962 June p 60-67 [279] muonium, muon, electron, elementary particles positronium, atom structure of muonium 1966 Apr p 93-100 niobium alloys, magnetism, superconductors, proton beam focusing generation of intense magnetic fields 1967 Mar p 114-123 electron discovery, induction coil radio discovery, X-ray discovery, science history 1971 May p 80-87 superconductors miobium 1961 Apr p 80
electrocoating, air pollution, corona discharge, fly ash, electrostatics, photocopying, xerography, electrostatic precipitation and seperation 1972 Mar p 46–58 electroencephalography, brain, cerebral cortex, cerebrum, cerebellum, brain surgery, 'the great raveled knot', localization of brain function 1948 Oct p 26–39 [13] brain waves, alpha rhythms, medical diagnosis, Fourier analysis, toposcope display, automata theory 1954 June p 54–63 perceptual isolation, hallucination, boredom, neuropsychology, sensory deprivation, effect of exposure to monotonous environment 1957 Jan p 52–56 [430] brain waves, learning, sleep, conditioned behavior, correlation of brain waves to behavior 1959 Aug p 89–96 dreams, sleep, REM sleep, function of dreams 1960 Nov p 82–88 [460] brain waves, computerized EEG observation of behavior in man, localization of brain function 1962 June p 142–153 dreams, sleep research, reticular formation, brain waves, paradoxical sleep, REM sleep, cat brain, the states of sleep 1967 Feb p 62–72 [504] electrolysis, electrochemistry, phlogiston theory, Davy lamp, science history, Humphry Davy, biography 1967 June p 106–116 electrochemical machining, metal forming 1974 Jan p 30–37 electrochemical machining, metal forming 1974 Jan p 30–37 electrolyte balance, shock, traumatic shock, capillary bed, cardiovascular 1952 Dec p 62–68 system, blood transfusion 1952 Dec p 62–68	electromagnetism, unified field theory, gravity, nuclear forces, 'On the Generalized Theory of Gravitation', a personal account by Albert Einstein 1950 Apr p 13-17 geomagnetism, permanent magnets, Blackett hypothesis, Elsasser-Bullard hypothesis, theories on origin of terrestrial magnetism 1950 June p 20-24 Maxwell's equations, field theory, life and work of James Clerk Maxwell 1955 June p 58-71 radio, science history, 'Hertzian' waves, electromagnetic spectrum, Heinrich Hertz biography 1957 Dec p 98-106 magnetism, magnetic field, force-free windings, million gauss field 1958 Feb p 28-33 geomagnetism, geophysics, magnetohydrodynamics, convection currents, Earth core, origin of terrestial magnetism 1958 May p 44-48 molecular physics, intermolecular force, Coulomb force, measurement of intermolecular force between macroscopic bodies 1960 July p 47-53 gravity, time space continuum Einstein 1961 Mar p 94-106 superconductivity, shaped field, magnetic bottle, materials technology, development and applications of supermagnets 1962 June p 60-67 [279] muonium, muon, electron, elementary particles positronium, atom structure of muonium 1966 Apr p 93-100 niobium alloys, magnetism, superconductors, proton beam focusing generation of intense magnetic fields 1967 Mar p 114-123 electron discovery, induction coil radio discovery, X-ray discovery, science history 1971 May p 80-87

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-1then multiplier tube countillation country montrole accelerator
electron, wave-particle duality, diffraction, interference fringes, electron	electron-multiplier tube, scintillation counter, particle accelerator,
diffraction, Davisson-Germer experiment 1948 May p 50-53	scintillation counters 1953 Nov p 36–41
elementary particles, proton, particle counters, neutron, positron,	electron-muon, leptons as family 1977 May p 55
mesons, photon, neutrino, particle accelerator, nuclear binding force,	electron optics, electronics, electron tubes, amplifiers, communication
'Meson Song' 1948 June p 26–39	technology, rectifiers, cathode-ray tube, communication, power,
positronium, positron, quantum electrodynamics 'model atom'	thermionic emission, state of the technology 1950 Oct p 30–39
1954 Dec p 88–92	communication technology, laser, pulse-code modulation, Kerr effect,
photographic emulsion, particle tracks, cosmic radiation, neutron,	Pockel's effect, polarization, modulators, modulation of laser light
proton, characteristic 'signatures' of particles 1956 May p 40-47	1968 June p 17–23
particle interaction, muon, 'weak' force, high-energy physics, properties	microcircuit fabrication, computer-controlled fabrication, silicon
of massive negative particle 1961 July p 46-55 [275]	'chips', computer technology, integrated circuits 1972 Nov p 34-44
muonium, muon, elementary particles, electromagnetism, positronium,	electron orbitals, alkalı-metal anions, alkalı-metal cations, cryptands,
atom, structure of muonium 1966 Apr. p 93–100	solvated electrons, quantum mechanics 1977 July p 92–105 [368]
atoms, elementary particles, neutron, proton, matter, structure of	electron pairs, energy transfer, superconductors, organic superconductor,
'ordinary matter' 1967 May p 126–134	proposal for room-temperature superconductor 1965 Feb p 21–27
antimatter, g factor, magnetic moment, electron spin, positron,	electron plasma, plasma physics, positive ion plasma, 'hole' plasma,
magnetic bottle 1968 Jan p 72-85	plasmas in solids as models for study of gas plasmas
photoelectric effect, color, reflection, refraction, light, resonance	1963 Nov p 46–53
absorption, photon, interaction of light with matter	electron-positron annihilation, antimatter, high-energy physics, colliding-
1968 Sept_p 60–71	beam accelerator, proton, parton model, quantum electrodynamics
electric potential in centrifugal motion measured 1968 Dec p 56	1973 Oct p 104–113
electron tubes, electronics, amplifiers, communication technology,	antimatter, J particle, psi particle, charm, color, quark, high-energy
rectifiers, electron optics, cathode-ray tube, communication, power,	physics storage rings, virtual particles 1975 June p 50-62
thermionic emission, state of the technology 1950 Oct p 30-39	electron-ring accelerator, collective-effect accelerators, particle
electron accelerator, linear accelerator, traveling-wave accelerator,	accelerator, particle-storage rings 1972 Apr p 22–33
internal drift-tube accelerator 1954 Oct p 40-44 [234]	1,000 GeV(?) 1969 Oct p 48
linear accelerator, Stanford Linear Accelerator Center, klystron tube,	electron scattering, atomic nucleus, nuclear physics, high-energy physics,
two-mile Stanford Linear Accelerator 1961 Nov p 49-57 [322]	particle-scattering experiments, models of the atomic nucleus
electron beam, cold cathode, current density, X-ray photography, field	1956 July p 55–68 [217]
emission 1964 Jan p 108–118	proton spin, spin, high-energy physics, 'strong' force, dependence of
light-emitting diode, semiconductor, laser, junction diode, solid-state	nuclear forces on spin 1966 July p 68–78
lasers 1967 May p 108–122	electron shells, molecular structure, computer modeling, quantum
electron diffraction, electron, wave-particle duality, diffraction,	chemistry, molecular orbits, computer graphics 1970 Apr p 54-70
interference fringes, Davisson-Germer experiment	electron shower, detection of cosmic ray events 1957 June p 70
1948 May p 50–53	electron spin, materials technology, ferromagnetism, magnetic domains,
crystallography, crystal structure, slow electrons as diffraction probe	hysteresis, magnetic properties of materials 1967 Sept p 222–234
1965 Mar p 32–41	antimatter, g factor, electron, magnetic moment, positron, magnetic
electron discovery, electromagnetism, induction coil, radio discovery, X-	bottle 1968 Jan p 72–85
ray discovery, science history 1971 May p 80–87	electron-spin resonance, aging, radiation damage, free radicals, chemical
electron 'gas', alloys, materials technology, metals, crystal structure, grain	bond, spectroscopy, effects of free radicals on living systems
boundaries, lattice defects, dislocations, nature of metals 1967 Sept p 90-100	1970 Aug p 70–83 [335]
electron-hole liquid, electromagnetic radiation, exciton, quantum	electron storage rings, electromagnetic spectrum, electron manipulation,
mechanics, semiconductor 1976 June p 28–37	spectroscopy, synchrotron radiation, X-ray lithography, X-ray probe, uses of synchrotron radiation 1977 June p 32-41 [365]
electron interferometer, for perfect standards 1953 Aug p 42	probe, uses of synchrotron radiation 1977 June p 32–41 [365] electron theory, molecular beam, resonance absorption, atomic radiation,
electron manipulation, electromagnetic spectrum, electron storage rings,	coherent radiation, gas molecules, nuclear magnetic resonance,
spectroscopy, synchrotron radiation, X-ray lithography, X-ray	
probe, uses of synchrotron radiation 1977 June p 32-41 [365]	electron transfer, ATP synthesis, mitochondria, oxidation membrane,
electron mass, physical constants, measurement, velocity of light, particle	mitochondrion, proposed structure of mitochondrion
charge, least-squares method standards of measurement, Planck's	1964 Jan p 63–74
constant, Rydberg constant 1970 Oct p 62-78 [337]	chlorophyll, photosynthesis, chloroplast, ATP, cytochrome, pigments,
electron mean free path, electrical conductivity, Fermi surface,	role of chlorophyll in photosynthesis, 1965 July p 74–83 [1016]
semiconductor, materials technology, quantum mechanics, charge	anthracene, crystallography, photosynthesis, exciton, plants, organic
carners, electrical properties of materials 1967 Sept p 194-204	crystals, conjugated aromatic hydrocarbons 1967 Jan p. 86-07
electron micrographics, soap 1952 Feb p 58-59	chlorophyll, chloroplast photosynthesis, light absorption
electron microscopy, virology, cell, viruses inside cells	1974 Dec. p. 68–82 [1310]
1953 Dec p 38–41	electron transport, bacterial toxin, plague bacillus, Black Death
muscle contraction, muscle fiber, myosin, actin, muscle fiber structure	respiration mechanism of death by plague toxin
and function 1958 Nov p 66-82 [19] bacteriology, microorganisms, PPLO, virus cytology, smallest free-	1969 Mar n. 92_100
living cells 1962 Mar p 117–126 [1005]	chloroplast, photosynthesis, photochemistry, chlorophyll, mechanism
cell membrane, endoplasmic reticulum, myelin sheath mitochondria,	of photosynthesis 1960 Dec. p. 59.70 (1162)
nuclear membrane, electron microscope study of membranes in cell	electron tube, rectification, radio thermionic tube, diode, Fleming.
1962 Apr p 64–72 [151]	history of science, England, Edison, lamps, Deforest
human physiology, sarcoplasmic reticulum, muscle fiber, sarcoplasmic	electronic calculator, see computer
reticulum, functions deduced from structure	electronic camora, actronomic computer
1965 Mar n 72-80 (1007)	electronic camera, astronomy, image enhancement, image intensifier, telescope, electronic image processing 1956 Mar p. 81-90
actin, muscle contraction myosin, ATP, sliding filament hypothesis	vision, retina, photographic emulsion vidicon, television camera,
1965 Dec p 18-27 (1026)	photochemistry, light, image detection 1968 Sept p 110-117
atom visibility, microscopy, scanning electron microscope	photocinemistry, light, image detection 1968 Sept p 110-117 electronic circuitry, junction diode amplifiers, amplifiers, sound
1971 Apr p 26–35	reproduction transistor noise
DNA transcription gene action visualized, ribosome, mRNA	integrated circuits, microelectronics, technological annual at a second
1973 Mar p 34-42 [1267] stains for cell subjects 1961 Sept. p. 96	'chips', introduction to single-topic issue on microelectronics
1501 Sept p 50	1077 54 (2 (2 (2)
protein structure, purple membrane 1975 Nov. n. 50	creationic components infinistry integrated organic acceptance
electron mirror microscope, forerunner of scanning 1975 Nov p 58	microelectronics silicon 'chips' 1965 Nov. p. 56-70

electronic equipment, automatic manufacture, Project Tinkertoy, mo	dulan
1055 Aug 7	
South waves, communication technology crystal surface was as	nucleochronology, radioactive nuclei, stellar evolution supernovae
Rayleigh waves, signal processing, ultrasonic waves	1974 Jan n 69-77
1972 Oat n. 5	chondrites, planets, solar system chemistry, space exploration stellar
electronic scanner, computer technology, information storage,	0-06 evolution 1074 Mar p 50-65
information retrieval, microrecording, microfiche, library science	element transmutation, atomic theory, Rutherford-Soddy theory, science
1066 Community Science	nistory, radioactivity, radioactive decay transmutation, reception of
electronic switching, telephone switching, electromechanical switching	-242 'newer alchemy' 1966 Aug p 88-94
markers, electronic replaces electromechanical switching	
	positron, mesons, photon, neutrino, particle accelerator, nuclear
Communication natural s communication 1962 July p 132-	-143 binding force, 'Meson Song' 1948 June p 26-39
communication networks, communication satellite, multiplexing,	common and an array of the state of the stat
network theory, radio, communication, telephone systems, televis	iion 1949 Mar n 28-39
	170 Goldshaum tot en en en en en
electronic telephone, telephone, solid-state electronics, integrated circu	IIIS. With 20 particles known a review of the theoretical foundations of
telephone based on integrated circuits 1978 Mar p 58-64 [3	002] physics 1953 Apr p 57-64 [208]
electronic typesetter, letter-projection method 1967 Dec. p	55 neutrino, neutron decay, alpha decay, beta decay, setting trap for
electronic typesetting, printing, photographic typesetting, digital	detection of theoretical particle 1956 Jan p 58-68
computer, mechanical composition, cathode-ray tube, computer	parity, 'weak' force, symmetry, quantum, particle interaction, right and
applications 1969 May p 60	-69 left-handed particles breakdown of parity 1957 Apr p 45-53 [231]
with help of photography 1949 Nov. n	antimatter, symmetry, 'weak' force, parity, particle interaction,
electronics, solid state physics, transistor, vacuum tube, germanium	recognition of 'fourth force' 1959 Mar p 72–84 [247]
diode, triode, dawn of solid-state electronics 1948 Sept p 52	-55 magnetic monopoles, electromagnetic radiation, particle accelerator,
electron tubes, amplifiers, communication technology, rectifiers.	search for elementary particle of magnetism 1963 Dec. p. 122-131
electron optics, cathode-ray tube, communication, power, thermio	muonium, muon, electron, electromagnetism, positronium, atom
emission, state of the technology 1950 Oct p 30-	
transistor, junction transistor, vacuum tube, computer technology.	atoms, electron, neutron, proton, matter, structure of 'ordinary matter'
forecast of a 'revolution in electronics' 1951 Aug D 13-	-17 1967 May p 126–134
electric field, Gunn effect, microwave emission, negative resistance,	energy levels, atom, nucleus, high-energy physics, spectroscopy, 'three
solid state physics, gallium arsenide, solid state microwave	spectroscopies' 1968 May p 15–19
generation 1966 Aug p 22-	
optical maser 1962 Jan p	62 neutron, nuclear forces, nuclear surface, proton
electroorganic chemistry, electrolysis, electrolytic chemical processes	1972 Oct p 100-108
1967 Apr p	50 Jeptons, heavy leptons, tau particle, small light-particle family gains
electrophoresis, protein separation, Schlieren scanning, moving-bounda	ry new member 1978 Mar p 50-57 [398]
electrophoresis 1951 Dec p 45–	
sex determination, spermatozoon motility, gene manipulation, sorting	see also high-energy physics
out Y-bearing sperm by electrophoresis 1958 Nov p 87-	elements, element abundance, cosmic distribution 1950 Oct p 14-17
immunoelectrophoresis, antigens, antibodies, separation of proteins	glass, metals, materials technology, ceramics, polymers, chemical band,
1960 Mar p 130–140 [8	41 composite materials, atom, introduction to single-topic issue on
electric field, electric 'wind', non-uniform electric field, applications of	f materials 1967 Sept p 00-17
non-uniform electric fields 1960 Dec p 106-11	6 living matter, essential elements, metallo-enzymes, fluorine, silicon, tin
evolution, gene pool, mutation, genetic load, population genetics,	vanadum list of elements essential to life lengthened to 24
heterozygosity 1970 Mar p 98-107 [1172	1972 July p 32-00
electroplaques, electric fishes, sodium ion potential, neurophysiology,	isotopes, radioactive decay, atomic nucleus, 'synthetic' elements, evolic
synapse, acetylcholine, animal behavior, nerve impulse,	isotopes of light elements 1978 June p 60-72 [3070]
bioluminescence 1960 Oct p 115–12	1040 No. 9 111
electroplating, with titanium 1954 Dec p 5	
plating refractory metals 1957 Aug p 65	elephant, intelligence, learning, vision, research in elephant learning 1957 Feb p 44-49
electroretinography, vitamin A deficiency, night blindness, opsin,	ly 1 1 1 CC 1 CC 1 absences
rhodopsin, bright-light exposure, retinitis pigmentosa, night	animal husbandry, antelope, giraffe, buffalo, rhinoceros hippopotamus, wildlife husbandry in Africa 1960 Nov p 123-134
blindness in rat, action of vit A on eye 1966 Oct p 78-84 [1053]	hippopotamus, wildlife husbandry in Africa 1960 Nov p 123-134 elephant extinction, Clovis culture, hunting, mammoth-bone deposits
electrostatic belt generator, particle accelerator, Van de Graaf generator,	Folsom points, New World archeology 1966 June p 104-112
charge-changing accelerator, negative ion 1970 Aug p 24-33	Folsom points, New World archeology 1966 June p 104-112 elephantiasis, circadian rhythm, filariasis, parasitism, tropical disease
electrostatics, air pollution, corona discharge, electrocoating, fly ash,	1958 July p 94-101
photocopying, xerography, electrostatic precipitation and seperation 1972 Mar p 46-58	
element 103, 'synthetic' elements, lawrencium, transuranium elements	galaxy spiral galaxies evolution from taxonomy
high-flux isotope reactor, heavy-ion linear accelerator, periodic table	1956 Sept p 100-108
	galactic evolution, spiral galaxies, origin and history from shape
at 105	1963 Jan p 70–84
element 104, synthesized 1969 June p 56 element abundance, cosmology, red shift, galactic recession, 'synthetic element abundance, 'synthetic element abundance, 'synthetic element abundance, cosmology, 'synthetic element abundance, 's	Elsasser-Bullard hypothesis, geomagnetism permanent magnets.
elements, universe expansion 1948 July p 20–25	electromagnetism. Blackett hypothesis, theories on origin of
a distribution 1930 Oct p 17-17	terrestrial magnetism 1950 June p 20-24
total aland hymothesis hingry stars, photophoresis, gravitational	elutriation, rain drop, soil erosion, sheet erosion, micromechanics of soil erosion 1948 Nov p 40-45
	erosion 1948 Nov p 40-45
	embryo-graft experiments, regeneration cell differentiation, cockroach
thermonuclear reaction, stellar evolution, universe, isotopes, 'synthetic'	
	embryonic development, newt, biological form
elements, particle accelerator, experimental astrophysics	1977 July p 66–81 [1363]
elements, particle accelerator, experimental asseption 82–91	1977 July p 66-81 [1363] embryological 'organizer', embryonic development, cell differentiation
elements, particle accelerator, experimental 1956 Sept p 82-91	1977 July p 66-81 [1363] embryological 'organizer', embryonic development, cell differentiation Cartesian diver, fundamental research, How do cells differentiate? 1953 Sept. p. 108-116
elements, particle accelerator, experimental autorior 1956 Sept p 82-91 ecology, energy cycle, biomass, solar energy, food chain, autotrophs, 1958 Apr p 83-92	1977 July p 66-81 [1363] embryological 'organizer', embryonic development, cell differentiation Cartesian diver, fundamental research. How do cells differentiate? 1953 Sept. p 108-116 cell differentiation, embryonic development, blastula, gastrula,
elements, particle accelerator, experimental 1956 Sept p 82-91 ecology, energy cycle, biomass, solar energy, food chain, autotrophs, heterotrophs, the ecosphere element formation, cosmology, universe expansion, Olber's paradox, element formation, cosmology, universe expansion, Olber's paradox.	embryological 'organizer', embryonic development, cell differentiation Cartesian diver, fundamental research. How do cells differentiate? 1953 Sept. p. 108-116 cell differentiation, embryonic development. blastula, gastrula, fertilization, ectoderm, mesoderm, endoderm, science history, review.
elements, particle accelerator, experimental 1956 Sept p 82-91 ecology, energy cycle, biomass, solar energy, food chain, autotrophs,	embryological 'organizer', embryonic development, cell differentiation Cartesian diver, fundamental research. How do cells differentiate? 1953 Sept. p. 108-116 cell differentiation, embryonic development blastula, gastrula, fertilization, ectoderm, mesoderm endoderm science history, review
elements, particle accelerator, experimental autorior 1956 Sept p 82-91 ecology, energy cycle, biomass, solar energy, food chain, autotrophs, 1958 Apr p 83-92	embryological 'organizer', embryonic development, cell differentiation Cartesian diver, fundamental research, How do cells differentiate? 1953 Sept. p. 108-116 cell differentiation, embryonic development. blastula, gastrula, fertilization, ectoderm, mesoderm, endoderm, science history, review.

embry onic cells, muscle tissue, cell differentiation, cell culture, clone,	ACTH, child development, dwarfism, growth hormone, deprivation
origin of muscle in embryonic development 1964 Aug p 61–66	dwarfism, 'bone age', anorexia nervosa 1972 July p 76-82 [1253]
embry onic development, dedifferentiation of tissue cells, regeneration,	emotional development, fear, comparative psychology, learning, influence
cancer 1949 Dec p 22–24	of early environment, experiments with dogs
observed in the chick embryo 1950 Feb p 52–55	1956 Jan p 38–42 [469]
protozoon, cell differentiation, regeneration, protozoon as model for	comparative psychology, parental care, abnormal behavior, maternal deprivation, early experience and emotional development,
embryological study 1953 Mar p 76-82 cell differentiation, embryological 'organizer', Cartesian diver,	experiments with rats 1963 June p 138–146 [478]
fundamental research, How do cells differentiate?	emotional illness, Oedipus complex, psychoanalysis 1949 Jan p 22–27
1953 Sept p 108–116	group psychotherapy, psychiatry 1950 Dec p 42–45 [449]
plutonium, ultra-microchemistry, cytology, chemistry, isolation of	mental health, schizophrenia, epidemiology, family, psychosis, income
plutonium established a new research technology	status 1954 Mar p 38-42 [441]
1954 Feb p 76–81	acetylcholine, hormone, nerve impulse, serotonin, synapse,
nerve regeneration, vision, learning, visual perception, inborn 'hard	neurotransmitters, central nervous system, physiological psychology,
wiring' of nerve circuitry 1956 May p 48-52 [1090]	chemical mediation of nerve impulses 1957 Feb p 86–94
cleft palate, congenital anomalies, fetal injury, teratogenesis, rubella, teratology 1957 Oct p 109–116	'truth' drugs, psychoanalysis, psychoactive drugs, psychiatry, clinical use of psychoactive drugs 1960 Mar p 145-154 [497]
teratology 1957 Oct p 109-116 cell differentiation, blastula, gastrula, fertilization, ectoderm,	schizophrenia, psychoanalysis, psychiatry, psychosis, neurosis, double
mesoderm, endoderm, embryological 'organizer', science history,	bind, taxonomy of emotional illness, family therapy
review of classical embryology 1957 Nov p 79–88 [103]	1962 Aug p 65–74 [468]
salamander, regeneration, frog, nerve fibers, role of nerve fibers in	education, poverty, group behavior, rural poverty, community action,
regeneration 1958 Oct p 79–88	social psychology, study of community regeneration
cell differentiation, feedback, tissue specialization 1958 Dec p 36-41	1965 May p 21–27 [634]
heart embryology, mesoderm, first heartbeat 1959 Mar p 87-96 [56]	behavioral psychology, child psychiatry, autism, schizophrenia
tissue culture, tissue differentiation, dissociated cells, reassembly of dissociated tissue cells 1959 May p 132–144	1967 Mar p 78–86 [505] group therapy, therapeutic community, role-channeling
dissociated tissue cells 1959 May p 132-144 regeneration, nerve circuits, embryology, reflex arc, 'hard-wiring' of	1971 Mar p 34-42 [534]
nervous system 1959 Nov p 68–75 [72]	community mental-health centers, mental health, psychiatric hospital
cell differentiation, tissue specialization, 'lampbrush' chromosome,	population, psychoactive drugs, psychotherapy, psychiatry,
zygote, fertilization, ovum, clone, cytology, how cells specialize	psychoanalysis 1973 Sept p 116–127
1961 Sept p 124–140	community mental-health centers, skid row, drug addiction,
cell aggregation, tissue differentiation, cell 'recognition', cytology, how	psychoactive drugs, 'deinstitutionalization' of the emotionally ill
cells associate 1961 Sept p 142–165	1978 Feb p 46–53 [581] EMP: electromagnetic pulse
oocytogenesis, meiosis, mitosis, mammalian eggs, chromosomal anomalies, ovum, in vitro fertilization 1966 Aug p 72-81 [1047]	EMP effect, arms control, atomic test ban, 'fireball blackout',
cell differentiation, pancreas, mesoderm, endoderm, tissue culture	underground nuclear explosions, strategic weapons
1969 Mar p 36–44 [1136]	1972 Nov p 15–23 [342]
mitosis, ovum, fertilization, meiosis, blastocyst, human embryos in the	emphysema, bronchitis, air pollution, public health, smog environmental
laboratory 1970 Dec p 44–54 [1206]	health, US cities, smog and public health 1961 Oct p 49-57 [612]
calcium ion activator, cell motility, cell shape, microfilaments,	acute respiratory failure, intensive care, tracheostomy, lung, alveolar
microtubules 1971 Oct p 76–82 [1233] brain circuitry, nerve cells, neuronal specificity, visual cortex, Xenopus	collapse, pathogenesis and treatment of acute respiratory failure 1969 Nov p 23–29
laevis 1973 Feb p 26–35 [1265]	employment, armed forces of U.S., arms production 1951 Sept p 89-99
regeneration, biological form, cell differentiation, cellular polarity,	pluralistic economy, public sector, private-enterprise sector,
Hydra, morphogenesis, morphogens 1974 Dec p 44–54 [1309]	productivity, US economy, not-for-profit sector
crystals, calcite, calcium carbonate crystals, crystal structure, sea	1976 Dec p 25-29
urchin embryo 1977 Apr p 82–92	nearly full 1951 Sept p 49 employment by industry, engineering manpower, labor force, disciplinary
regeneration, cell differentiation, cockroach, embryo graft experiments, newt, biological form 1977 July p 66-81 [1363]	distribution 1951 Sept p 65–68
cell motility, wound healing, cell tracks, tubulin, mitotic apparatus, cell	
4000 4 60 50 510001	employment by sector, science manpower, disciplinary distribution, labor
motion made visible to naked eye 1978 Apr p 68-76 [1386]	employment by sector, science manpower, disciplinary distribution, labor force 1951 Sept p 71-76
growth, computer modeling, grid-transformation, the shaping of tissues	force 1951 Sept p 71-76 employment levels, labor force, manpower policy, U S economy, women
growth, computer modeling, grid-transformation, the shaping of tissues in embryos 1978 June p 106–113 [1391]	force 1951 Sept p 71–76 employment levels, labor force, manpower policy, U S economy, women in labor force, job creation vs job quality 1977 Nov. p 43–51 [70]1
growth, computer modeling, grid-transformation, the shaping of tissues in embryos 1978 June p 106–113 [1391] feedback control 1952 Oct p 42	force 1951 Sept p 71-76 employment levels, labor force, manpower policy, U S economy, women in labor force, job creation vs job quality 1977 Nov p 43-51 [701] employment policy, economic development, Japan, investment, debt
growth, computer modeling, grid-transformation, the shaping of tissues in embryos 1978 June p 106–113 [1391] feedback control 1952 Oct p 42 differentiation inducers 1962 Apr p 77	force 1951 Sept p 71-76 employment levels, labor force, manpower policy, U S economy, women in labor force, job creation vs job quality 1977 Nov p 43-51 [701] employment policy, economic development, Japan, investment, debt financing, government-business relations, Japan's economic growth
growth, computer modeling, grid-transformation, the shaping of tissues in embryos 1978 June p 106–113 [1391] feedback control 1952 Oct p 42	force 1951 Sept p 71-76 employment levels, labor force, manpower policy, U S economy, women in labor force, job creation vs job quality 1977 Nov p 43-51 [701] employment policy, economic development, Japan, investment, debt financing, government-business relations, Japan's economic growth 1970 Mar. p. 31-37
growth, computer modeling, grid-transformation, the shaping of tissues in embryos 1978 June p 106–113 [1391] feedback control 1952 Oct p 42 differentiation inducers 1962 Apr p 77 emergency medicine, homeostasis, wound shock, body fluids, shock, treatment of shock 1958 Dec p 115–124 eminent domain, urban renewal, slums, cities, housing, relocation, urban	force 1951 Sept p 71–76 employment levels, labor force, manpower policy, U S economy, women in labor force, job creation vs job quality 1977 Nov p 43–51 [701] employment policy, economic development, Japan, investment, debt financing, government-business relations, Japan's economic growth 1970 Mar p 31–37 emulsification, ultrasonics, interferometry, nondestructive testing, sonar
growth, computer modeling, grid-transformation, the shaping of tissues in embryos 1978 June p 106–113 [1391] feedback control 1952 Oct p 42 differentiation inducers 1962 Apr p 77 emergency medicine, homeostasis, wound shock, body fluids, shock, treatment of shock 1958 Dec p 115–124 eminent domain, urban renewal, slums, cities, housing, relocation, urban planning, U S experience with Federal subsidy of urban renewal	force 1951 Sept p 71-76 employment levels, labor force, manpower policy, U S economy, women in labor force, job creation vs job quality 1977 Nov p 43-51 [701] employment policy, economic development, Japan, investment, debt financing, government-business relations, Japan's economic growth 1970 Mar p 31-37 emulsification, ultrasonics, interferometry, nondestructive testing, sonar 1954 May p 54-63 emulsion, photography, silver halide, photographic development,
growth, computer modeling, grid-transformation, the shaping of tissues in embryos 1978 June p 106–113 [1391] feedback control 1952 Oct p 42 differentiation inducers 1962 Apr p 77 emergency medicine, homeostasis, wound shock, body fluids, shock, treatment of shock 1958 Dec p 115–124 eminent domain, urban renewal, slums, cities, housing, relocation, urban planning, U S experience with Federal subsidy of urban renewal 1965 Sept p 194–204	force 1951 Sept p 71–76 employment levels, labor force, manpower policy, U S economy, women in labor force, job creation vs job quality 1977 Nov p 43–51 [701] employment policy, economic development, Japan, investment, debt financing, government-business relations, Japan's economic growth 1970 Mar p 31–37 emulsification, ultrasonics, interferometry, nondestructive testing, sonar 1954 May p 54–63 emulsion, photography, silver halide, photographic development, photochemistry 1952 Nov p 30–33
growth, computer modeling, grid-transformation, the shaping of tissues in embryos 1978 June p 106–113 [1391] feedback control 1952 Oct p 42 differentiation inducers 1962 Apr p 77 emergency medicine, homeostasis, wound shock, body fluids, shock, treatment of shock 1958 Dec p 115–124 eminent domain, urban renewal, slums, cities, housing, relocation, urban planning, U S experience with Federal subsidy of urban renewal 1965 Sept p 194–204 emission nebulae, color photography, interstellar gas, ionization, nebular	force employ ment levels, labor force, manpower policy, U S economy, women in labor force, job creation vs job quality 1977 Nov p 43–51 [701] employ ment policy, economic development, Japan, investment, debt financing, government-business relations, Japan's economic growth 1970 Mar p 31–37 emulsification, ultrasonics, interferometry, nondestructive testing, sonar 1954 May p 54–63 emulsion, photography, silver halide, photographic development, photochemistry 1952 Nov p 30–33 enamel, teeth, dentin, metabolism fluoridation 1953 June p 38–42
growth, computer modeling, grid-transformation, the shaping of tissues in embryos 1978 June p 106–113 [1391] feedback control 1952 Oct p 42 differentiation inducers 1962 Apr p 77 emergency medicine, homeostasis, wound shock, body fluids, shock, treatment of shock 1958 Dec p 115–124 eminent domain, urban renewal, slums, cities, housing, relocation, urban planning, U S experience with Federal subsidy of urban renewal 1965 Sept p 194–204 emission nebulae, color photography, interstellar gas, ionization, nebular luminosity 1974 Oct p 34–43	force employment levels, labor force, manpower policy, U S economy, women in labor force, job creation vs job quality 1977 Nov p 43–51 [701] employment policy, economic development, Japan's economic growth financing, government-business relations, Japan's economic growth 1970 Mar p 31–37 emulsification, ultrasonics, interferometry, nondestructive testing, sonar 1954 May p 54–63 emulsion, photography, silver halide, photographic development, photochemistry 1952 Nov p 30–33 enamel, teeth, dentin, metabolism fluoridation enantiomers, olfaction, stereochemical theory of older 1971 Aug p 46 1971 Aug p 46
growth, computer modeling, grid-transformation, the shaping of tissues in embryos 1978 June p 106–113 [1391] feedback control 1952 Oct p 42 differentiation inducers 1962 Apr p 77 emergency medicine, homeostasis, wound shock, body fluids, shock, treatment of shock 1958 Dec p 115–124 eminent domain, urban renewal, slums, cities, housing, relocation, urban planning, U S experience with Federal subsidy of urban renewal 1965 Sept p 194–204 emission nebulae, color photography, interstellar gas, ionization, nebular luminosity 1974 Oct p 34–43 emission standards, air pollution, Clean Air Act, Environmental Protection Agency 1973 June p 14–21	force employ ment levels, labor force, manpower policy, U S economy, women in labor force, job creation vs job quality 1977 Nov p 43–51 [701] employment policy, economic development, Japan, investment, debt financing, government-business relations, Japan's economic growth 1970 Mar p 31–37 emulsification, ultrasonics, interferometry, nondestructive testing, sonar 1954 May p 54–63 emulsion, photography, silver halide, photographic development, photochemistry 1952 Nov p 30–33 enamel, teeth, dentin, metabolism fluondation 1953 June p 38–42 enantiomers, olfaction, stereochemical theory of odor encephalitis, virus disease, animal vectors, influenza virus
growth, computer modeling, grid-transformation, the shaping of tissues in embryos 1978 June p 106–113 [1391] feedback control 1952 Oct p 42 differentiation inducers 1962 Apr p 77 emergency medicine, homeostasis, wound shock, body fluids, shock, treatment of shock 1958 Dec p 115–124 eminent domain, urban renewal, slums, cities, housing, relocation, urban planning, U S experience with Federal subsidy of urban renewal 1965 Sept p 194–204 emission nebulae, color photography, interstellar gas, ionization, nebular luminosity 1974 Oct p 34–43 emission standards, air pollution, Clean Air Act, Environmental Protection Agency 1973 June p 14–21 emmer, wheat, einkorn wild einkorn, hybrid cells, fungi, chromosome	force 1951 Sept p 71–76 employment levels, labor force, manpower policy, U S economy, women in labor force, job creation vs job quality 1977 Nov p 43–51 [701] employment policy, economic development, Japan, investment, debt financing, government-business relations, Japan's economic growth 1970 Mar p 31–37 emulsification, ultrasonics, interferometry, nondestructive testing, sonar 1954 May p 54–63 emulsion, photography, silver halide, photographic development, photochemistry 1952 Nov p 30–33 enamel, teeth, dentin, metabolism fluondation 1953 June p 38–42 enantiomers, olfaction, stereochemical theory of odor 1971 Aug p 46 encephalitis, virus disease, animal vectors, influenza virus 1949 Sept p 18–21 toxoplasmosis, parasitism, intracellular parasite, infectious disease.
growth, computer modeling, grid-transformation, the shaping of tissues in embryos 1978 June p 106–113 [1391] feedback control 1952 Oct p 42 differentiation inducers 1962 Apr p 77 emergency medicine, homeostasis, wound shock, body fluids, shock, treatment of shock 1958 Dec p 115–124 eminent domain, urban renewal, slums, cities, housing, relocation, urban planning, U S experience with Federal subsidy of urban renewal 1965 Sept p 194–204 emission nebulae, color photography, interstellar gas, ionization, nebular luminosity 1974 Oct p 34–43 emission standards, air pollution, Clean Air Act, Environmental Protection Agency 1973 June p 14–21 emmer, wheat, einkorn wild einkorn, hybrid cells, fungi, chromosome doubling, plant breeding, origin and perfection of wheat	force 1951 Sept p 71–76 employment levels, labor force, manpower policy, U S economy, women in labor force, job creation vs job quality 1977 Nov p 43–51 [70] employment policy, economic development, Japan, investment, debt financing, government-business relations, Japan's economic growth 1970 Mar p 31–37 emulsification, ultrasonics, interferometry, nondestructive testing, sonar 1954 May p 54–63 emulsion, photography, silver halide, photographic development, photochemistry 1952 Nov p 30–33 enamel, teeth, dentin, metabolism fluoridation 1953 June p 38–42 enantiomers, olfaction, stereochemical theory of odor 1971 Aug p 46 encephalitis, virus disease, animal vectors, influenza virus 1949 Sept p 18–21 toxoplasmosis, parasitism, intracellular parasite, infectious disease, insect vectors
growth, computer modeling, grid-transformation, the shaping of tissues in embryos 1978 June p 106–113 [1391] feedback control 1952 Oct p 42 differentiation inducers 1962 Apr p 77 emergency medicine, homeostasis, wound shock, body fluids, shock, treatment of shock 1958 Dec p 115–124 eminent domain, urban renewal, slums, cities, housing, relocation, urban planning, U S experience with Federal subsidy of urban renewal 1965 Sept p 194–204 emission nebulae, color photography, interstellar gas, ionization, nebular luminosity 1974 Oct p 34–43 emission standards, air pollution, Clean Air Act, Environmental Protection Agency 1973 June p 14–21 emmer, wheat, einkorn wild einkorn, hybrid cells, fungi, chromosome doubling, plant breeding, origin and perfection of wheat	employ ment levels, labor force, manpower policy, U S economy, women in labor force, job creation vs job quality 1977 Nov p 43–51 [701] employ ment policy, economic development, Japan, investment, debt financing, government-business relations, Japan's economic growth 1970 Mar p 31–37 emulsification, ultrasonics, interferometry, nondestructive testing, sonar 1954 May p 54–63 emulsion, photography, silver halide, photographic development, photochemistry 1952 Nov p 30–33 enamel, teeth, dentin, metabolism fluondation 1953 June p 38–42 enantiomers, olfaction, stereochemical theory of odor 1971 Aug p 46 encephalitis, virus disease, animal vectors, influenza virus 1949 Sept p 18–21 toxoplasmosis, parasitism, intracellular parasite, infectious disease, insect vectors 1953 Feb p 86–92 behavior, hyperactive child, temperament, genetic disease.
growth, computer modeling, grid-transformation, the shaping of tissues in embryos 1978 June p 106–113 [1391] feedback control 1952 Oct p 42 differentiation inducers 1962 Apr p 77 emergency medicine, homeostasis, wound shock, body fluids, shock, treatment of shock 1958 Dec p 115–124 eminent domain, urban renewal, slums, cities, housing, relocation, urban planning, U S experience with Federal subsidy of urban renewal 1965 Sept p 194–204 emission nebulae, color photography, interstellar gas, ionization, nebular luminosity 1974 Oct p 34–43 emission standards, air pollution, Clean Air Act, Environmental Protection Agency 1973 June p 14–21 emmer, wheat, einkorn wild einkorn, hybrid cells, fungi, chromosome doubling, plant breeding, origin and perfection of wheat 1953 July p 50–59 emotion, pupil size, attitude, eye, attention, effect of attitude on pupil size	employment levels, labor force, manpower policy, U S economy, women in labor force, job creation vs job quality 1977 Nov p 43–51 [701] employment policy, economic development, Japan, investment, debt financing, government-business relations, Japan's economic growth 1970 Mar p 31–37 emulsification, ultrasonics, interferometry, nondestructive testing, sonar 1954 May p 54–63 emulsion, photography, silver halide, photographic development, photochemistry 1952 Nov p 30–33 enamel, teeth, dentin, metabolism fluondation 1953 June p 38–42 enantiomers, olfaction, stereochemical theory of odor 1971 Aug p 46 encephalitis, virus disease, animal vectors, influenza virus 1949 Sept p 18–21 toxoplasmosis, parasitism, intracellular parasite, infectious disease, insect vectors 1953 Feb p 86–92 behavior, hyperactive child, temperament, genetic disease amphetamines, possibly innate disease syndrome
growth, computer modeling, grid-transformation, the shaping of tissues in embryos 1978 June p 106–113 [1391] feedback control 1952 Oct p 42 differentiation inducers 1962 Apr p 77 emergency medicine, homeostasis, wound shock, body fluids, shock, treatment of shock 1958 Dec p 115–124 eminent domain, urban renewal, slums, cities, housing, relocation, urban planning, U S experience with Federal subsidy of urban renewal 1965 Sept p 194–204 emission nebulae, color photography, interstellar gas, ionization, nebular luminosity 1974 Oct p 34–43 emission standards, air pollution, Clean Air Act, Environmental Protection Agency 1973 June p 14–21 emmer, wheat, einkorn wild einkorn, hybrid cells, fungi, chromosome doubling, plant breeding, origin and perfection of wheat 1953 July p 50–59 emotion, pupil size, attitude, eye, attention, effect of attitude on pupil size emotional behavior, conditioned reflex, neurosis, operant conditioning.	force 1951 Sept p 71–76 employment levels, labor force, manpower policy, U S economy, women in labor force, job creation vs job quality 1977 Nov p 43–51 [701] employment policy, economic development, Japan, investment, debt financing, government-business relations, Japan's economic growth 1970 Mar p 31–37 emulsification, ultrasonics, interferometry, nondestructive testing, sonar 1954 May p 54–63 emulsion, photography, silver halide, photographic development, photochemistry 1952 Nov p 30–33 enamel, teeth, dentin, metabolism fluondation 1953 June p 38–42 enantiomers, olfaction, stereochemical theory of odor 1971 Aug p 46 encephalitis, virus disease, animal vectors, influenza virus 1949 Sept p 18–21 toxoplasmosis, parasitism, intracellular parasite, infectious disease, insect vectors 1953 Feb p 86–92 behavior, hyperactive child, temperament, genetic disease amphetamines, possibly innate disease syndrome 1970 Apr p 94–98 [527] antigen variation, disease, medical history influenza virus productive
growth, computer modeling, grid-transformation, the shaping of tissues in embryos 1978 June p 106–113 [1391] feedback control 1952 Oct p 42 differentiation inducers 1962 Apr p 77 emergency medicine, homeostasis, wound shock, body fluids, shock, treatment of shock 1958 Dec p 115–124 eminent domain, urban renewal, slums, cities, housing, relocation, urban planning, U S experience with Federal subsidy of urban renewal 1965 Sept p 194–204 emission nebulae, color photography, interstellar gas, ionization, nebular luminosity 1974 Oct p 34–43 emission standards, air pollution, Clean Air Act, Environmental Protection Agency 1973 June p 14–21 emmer, wheat, einkorn wild einkorn, hybrid cells, fungi, chromosome doubling, plant breeding, origin and perfection of wheat 1953 July p 50–59 emotion, pupil size, attitude, eye, attention, effect of attitude on pupil size 1965 Apr p 46–54 [493] emotional behavior, conditioned reflex, neurosis, operant conditioning. Paylov, psychology, thyroidectomy, stress neurosis conditioned	force 1951 Sept p 71–76 employment levels, labor force, manpower policy, U S economy, women in labor force, job creation vs job quality 1977 Nov p 43–51 [701] employment policy, economic development, Japan, investment, debt financing, government-business relations, Japan's economic growth 1970 Mar p 31–37 emulsification, ultrasonics, interferometry, nondestructive testing, sonar 1954 May p 54–63 emulsion, photography, silver halide, photographic development, photochemistry 1952 Nov p 30–33 enamel, teeth, dentin, metabolism fluondation 1953 June p 38–42 enantiomers, olfaction, stereochemical theory of odor 1971 Aug p 46 encephalitis, virus disease, animal vectors, influenza virus 1949 Sept p 18–21 toxoplasmosis, parasitism, intracellular parasite, infectious disease, insect vectors 1953 Feb p 86–92 behavior, hyperactive child, temperament, genetic disease amphetamines, possibly innate disease syndrome 1970 Apr p 94–98 [527] antigen variation, disease, medical history influenza virus productive
growth, computer modeling, grid-transformation, the shaping of tissues in embryos 1978 June p 106–113 [1391] feedback control 1952 Oct p 42 differentiation inducers 1962 Apr p 77 emergency medicine, homeostasis, wound shock, body fluids, shock, treatment of shock 1958 Dec p 115–124 eminent domain, urban renewal, slums, cities, housing, relocation, urban planning, U S experience with Federal subsidy of urban renewal 1965 Sept p 194–204 emission nebulae, color photography, interstellar gas, ionization, nebular luminosity 1974 Oct p 34–43 emission standards, air pollution, Clean Air Act, Environmental Protection Agency 1973 June p 14–21 emmer, wheat, einkorn wild einkorn, hybrid cells, fungi, chromosome doubling, plant breeding, origin and perfection of wheat 1953 July p 50–59 emotion, pupil size, attitude, eye, attention, effect of attitude on pupil size 1965 Apr p 46–54 [493] emotional behavior, conditioned reflex, neurosis, operant conditioning. Pavlov, psychology, thyroidectomy, stress neurosis conditioning reflex is shown to be a neurosis 1954 Jan p 48–57 [418]	employ ment levels, labor force, manpower policy, U S economy, women in labor force, job creation vs job quality 1977 Nov p 43–51 [701] employ ment policy, economic development, Japan, investment, debt financing, government-business relations, Japan's economic growth 1970 Mar p 31–37 emulsification, ultrasonics, interferometry, nondestructive testing, sonar 1954 May p 54–63 emulsion, photography, silver halide, photographic development, photochemistry 1952 Nov p 30–33 emulsion, photography, silver halide, photographic development, photochemistry 1952 Nov p 30–33 emanel, teeth, dentin, metabolism fluondation 1953 June p 38–42 enantiomers, olfaction, stereochemical theory of odor 1971 Aug p 46 encephalitis, virus disease, animal vectors, influenza virus 1949 Sept p 18–21 toxoplasmosis, parasitism, intracellular parasite, infectious disease, insect vectors 1953 Feb p 86–92 behavior, hyperactive child, temperament, genetic disease amphetamines, possibly innate disease syndrome 1970 Apr p 94–98 [527] antigen variation, disease, medical history influenza virus, pandemics, virus disease, animal vectors, Hong Kong flu, swine flu
growth, computer modeling, grid-transformation, the shaping of tissues in embryos 1978 June p 106–113 [1391] feedback control 1952 Oct p 42 differentiation inducers 1962 Apr p 77 emergency medicine, homeostasis, wound shock, body fluids, shock, treatment of shock 1958 Dec p 115–124 eminent domain, urban renewal, slums, cities, housing, relocation, urban planning, U S experience with Federal subsidy of urban renewal 1965 Sept p 194–204 emission nebulae, color photography, interstellar gas, ionization, nebular luminosity 1974 Oct p 34–43 emission standards, air pollution, Clean Air Act, Environmental Protection Agency 1973 June p 14–21 emmer, wheat, einkorn wild einkorn, hybrid cells, fungi, chromosome doubling, plant breeding, origin and perfection of wheat 1953 July p 50–59 emotion, pupil size, attitude, eye, attention, effect of attitude on pupil size 1965 Apr p 46–54 [493] emotional behavior, conditioned reflex, neurosis, operant conditioning, Pavlov, psychology, thyroidectomy, stress neurosis conditioned reflex is shown to be a neurosis 1954 Jan p 48–57 [418] emotional deprivation, child psychiatry, autism schizophrenia, psychoanalysis, 'mechanical boy' 1959 Mar p 116–127 [430]	employment levels, labor force, manpower policy, U S economy, women in labor force, job creation vs job quality 1977 Nov p 43–51 [701] employment policy, economic development, Japan, investment, debt financing, government-business relations, Japan's economic growth 1970 Mar p 31–37 emulsification, ultrasonics, interferometry, nondestructive testing, sonar 1954 May p 54–63 emulsion, photography, silver halide, photographic development, photochemistry 1952 Nov p 30–33 enamel, teeth, dentin, metabolism fluonidation 1953 June p 38–42 enantiomers, olfaction, stereochemical theory of odor 1971 Aug p 46 encephalitis, virus disease, animal vectors, influenza virus 1949 Sept p 18–21 toxoplasmosis, parasitism, intracellular parasite, infectious disease, insect vectors 1953 Feb p 86–92 behavior, hyperactive child, temperament, genetic disease amphetamines, possibly innate disease syndrome 1970 Apr p 94–98 [527] antigen variation, disease, medical history influenza virus, pandemics, virus disease, animal vectors, Hong Kong flu, swine flu 1977 Dec p 88–106 [1375] endangered species, Antarctic convergence, whaling industry, blue whale,
growth, computer modeling, grid-transformation, the shaping of tissues in embryos 1978 June p 106–113 [1391] feedback control 1952 Oct p 42 differentiation inducers 1962 Apr p 77 emergency medicine, homeostasis, wound shock, body fluids, shock, treatment of shock 1958 Dec p 115–124 eminent domain, urban renewal, slums, cities, housing, relocation, urban planning, U S experience with Federal subsidy of urban renewal 1965 Sept p 194–204 emission nebulae, color photography, interstellar gas, ionization, nebular luminosity 1974 Oct p 34–43 emission standards, air pollution, Clean Air Act, Environmental Protection Agency 1973 June p 14–21 emmer, wheat, einkorn wild einkorn, hybrid cells, fungi, chromosome doubling, plant breeding, origin and perfection of wheat 1953 July p 50–59 emotion, pupil size, attitude, eye, attention, effect of attitude on pupil size 1965 Apr p 46–54 [493] emotional behavior, conditioned reflex, neurosis, operant conditioning. Pavlov, psychology, thyroidectomy, stress neurosis conditioning reflex is shown to be a neurosis 1954 Jan p 48–57 [418] emotional deprivation, child psychiatry, autism schizophrenia.	employ ment levels, labor force, manpower policy, U S economy, women in labor force, job creation vs job quality 1977 Nov p 43–51 [701] employ ment policy, economic development, Japan, investment, debt financing, government-business relations, Japan's economic growth 1970 Mar p 31–37 emulsification, ultrasonics, interferometry, nondestructive testing, sonar 1954 May p 54–63 emulsion, photography, silver halide, photographic development, photochemistry 1952 Nov p 30–33 emulsion, photography, silver halide, photographic development, photochemistry 1952 Nov p 30–33 emanel, teeth, dentin, metabolism fluondation 1953 June p 38–42 enantiomers, olfaction, stereochemical theory of odor 1971 Aug p 46 encephalitis, virus disease, animal vectors, influenza virus 1949 Sept p 18–21 toxoplasmosis, parasitism, intracellular parasite, infectious disease, insect vectors 1953 Feb p 86–92 behavior, hyperactive child, temperament, genetic disease amphetamines, possibly innate disease syndrome 1970 Apr p 94–98 [527] antigen variation, disease, medical history influenza virus, pandemics, virus disease, animal vectors, Hong Kong flu, swine flu

1971 Nov p 104-110 [1236]

collectors

•	
endocranial easts, African hominids, brain evolution, fossil hominid	energy evels acology beams and
orains, nominid, numan brain, pongid brains	energy cycle, ecology, biomass, solar energy, food chain, element abundance, autotrophs, heterotrophs, the ecosphere
brain avalution have a 1974 July p 106-115 [68	301
orani evolution, brain size, cephalization index, intelligence,	Wind solar radiation biosphara albeda - tt
paleoneurology 1976 Jan p 90–101 [56 endocrine function, found in arteries 1951 Sept. p.	Ol Climate, ocean circulation, terrectual and attended and the standards
endocrine hunction, found in arteries 1951 Sept p	window', Earth energy cycle 1970 Sept p 54-63 [1189]
endocrine hormones, cell receptors, gene regulation, hormonal action,	solar radiation, photographese beautiful
protein synthesis, steroid hormones 1976 Feb p 32-43 [133	climax ecosystem, ecosystem, food chain, respiration, biosphere
endocrine system, physiology, nervous system, respiration, nerve impulsi	e, energy cycle 1970 Sept p 64-74 [1190]
muscle contraction, science, physiology 1900-1950	celestial energy cosmological 'hanguns' nover radiation appent
Ditutary gland ACTH considerable 1950 Sept p 71–7	
pituitary gland, ACTH, gonadotrophic hormones, metabolic hormone growth hormone, the master gland 1950 Oct p. 18-2	s, thermonuclear energy 1971 Sept. p. 50–59 [662]
growth hormone, the master gland 1950 Oct p 18–2	Eskimo, hunting societies, food chain, seal, power, Baffin Island,
ACTH, hormone, sexual characteristics, growth, thyroid-stimulating	ecosystem 1971 Sept p 104–115 [665]
hormone, follicle-stimulating hormone, prolactin, androgens, estrogens, secondary sexual characteristics, human physiology,	animal husbandry, ecosystem, agricultural system, power, New Guinea
chemical integrators of the body 1957 Mar p 76–88 [1122	tropical agriculture 1971 Sept. p. 116–132 [666]
chemical integrators of the body 1957 Mar p 76-88 [1122 brain function, cyclic AMP, dopamine, messenger molecules, nervous	5,
system, neurotransmitters, L-DOPA treatment, Parkinson's disease,	protection 1971 Sept p 134–144 [667]
'second messengers', brain endocrinology	biosphere, photosynthesis, respiration, power, radiation energy, solar
1977 Aug p 108–119 [1368	radiation, terrestrial radiation 1971 Sept p 88–100 [664]
endocrinology, cockroach, woodroach, cockroach as laboratory animal	
1951 Dec p 58-63	evolution 1972 June p 54-65 [901]
endoderm, cell differentiation, embryonic development, blastula, gastrula,	nitrogen fertilizer, nutrient cycle, soil structure, food and agniculture, food chain 1976 Sept p 74-86
fertilization, ectoderm, mesoderm, embryological 'organizer', science	•
history, review of classical embryology 1957 Nov p 79-88 [103]	
cell differentiation, embryonic development, pancreas, mesoderm,	energy demand, breeder reactor, fission reactor, uranium fission,
tissue culture 1969 Mar p 36-44 [1136]	plutonium, 'third generation' breeder reactors 1967 May p 25-33
endodorphins, brain function, drug action, drug addiction, enkephalins,	fission reactor, electric power, nuclear power, fossil fuel, energy
internal opiates, opiate receptors, brain endocrinology	economics, history and prospects of nuclear power in US
1977 Mar p 44-56	1968 Feb p 21–31
internal opiates 1977 Feb p 50	thermal pollution, Industrial Revolution, biosphere, energy technology,
endogamous group, Dunkers, genetic drift, ear lobes, blood typing, 'hitch-	fossil fuel cycle, carbon dioxide, industrial emissions, modification of
hiker's' thumb 1953 Aug p 76-81 [1062]	natural cycles by man 1970 Sept p 174–190 [1197]
endoplasmic reticulum, cell nucleus, cytoplasm, cell organelle,	breeder reactor, nuclear power, fast neutron reactor, uranium cycle,
chromosome, cell physiology, RNA, DNA, cytology, nuclear control	thorium cycle, liquid-metal reactor, fission reactor
of cell 1960 Jan p 126–136	1970 Nov p 13-21 [339]
cell membrane, electron microscopy, myelin sheath, mitochondna,	energy transformation, fuel conversion efficiency, power, prime
nuclear membrane, electron microscope study of membranes in cell	movers, steam turbines, magnetohydrodynamics, gas turbine, internal combustion engine, fuel cell, solar cells, power, nuclear
1962 Apr p 64-72 [151] cell membrane, cell secretion, exocytosis, membrane fusion, fluid-	power, comparative efficiencies of energy transformation pathways
mosaic model of membrane 1975 Oct p 28–37 [1328]	in industrial civilization 1971 Sept p 148-160 [668]
endosymbiosis, cell evolution, cell organelle, chloroplast, eukaryotic cells,	energy economics, Middle East oil, petroleum resources, Persian Gulf
mitochondria, symbiosis, prokaryotic cells, algae, cilia, flagella,	fields economic development Iran Irag Saudi Arabia
plastids 1971 Aug p 48-57 [1230]	1948 Sept p 9-13
endothermy, birds, dinosaurs, ectothermy, metabolism, birds descended	nuclear power, cost assessment, capital cost, competitive with fossil
from dinosaurs 1975 Apr p 58–78 [916]	fuels 1951 Jan p 32-30
endotoxins, bacterial infection, exotoxins, toxins, bacterial toxin, effects	coal, energy resources, natural gas, oil reserves, fossil fuel, impending petroleum shortage 1956 Oct p 43-49
of endotoxins 1964 Mar p 36–45	petroleum shortage 1936 Oct p 45-77
endrin, insecticide, implicated in fish deaths 1964 May p 64	fission reactor, breeder reactor, nuclear power, atomic power in U K 1958 Mar p 29-35
energy, heat, thermodynamics, quantum mechanics, entropy, equation of	fission reactor, nuclear power, fuel rods, design of reactor fuel elements
state, black body radiation, temperature, What is heat? 1954 Sept. p. 58-63	1959 Feb p 37-43
matter, momentum, high-energy physics, conservation law,	hattery fuel cell electric power generation, energy transformation
conservation laws in particle physics 1963 Oct p 36–45	direct conversion chemical to electric energy 1959 Oct p 12-76
power machines, mechanical energy, biological energy, economic	fission reactor, breeder reactor, nuclear power, thorium cycle, uranium
development, power, introduction to a single-topic issue on energy	cycle, breeder reactor development 1960 Jan p 82-74
and power 1971 Sept p 36-49 [661]	tar sands, oil shales petroleum shale retorts, potential liquid- hydrocarbon reserves 1966 Feb p 21-29
input to US food system 1974 June p 48	hydrocarbon reserves 1966 Feb p 21-27 fission reactor, energy demand, electric power, nuclear power, fossil
energy conservation, nuclear power, fossil fuel, solar energy, synthetic	fuel, history and prospects of nuclear power in US
fuels, energy policy of US 1974 Jan p 20–29 [684]	1968 Feb p 21-31
automobiles, engine efficiency, fuel consumption 1975 Jan p 34-44	energy storage, economic geography, pipelines, power transmission,
energy resources, nuclear reactor, fission reactor, nuclear-waste disposal, atomic-weapon proliferation, Rasmussen report	tankers, power, economic geography of energy production
1970 Jan p 21-31 [510]	distribution and consumption 1971 Sept p 164-175 [669]
and the research consumer protection household	decision theory, power production, technology assessment, tort law.
	economic planning market process 1971 Sept p 191-200 [671]
	coal hydrogenation, coal liquefaction energy resources oil and gas from coal 1976 May p. 24-29
in appliances, buildings 1977 Apr p 57	from coal 1976 May p 24-29 energy emission, phosphors absorption line, energy transformation
	1954 Oct p 62-66 [237]
energy consumption, fossi ruet, petroleum reconsumption, fossi ruet, petroleum reconsumption, shale, tar sands, coal liquefaction, the fuel fuel consumption, shale, tar sands, coal liquefaction, the fuel fuel fuel consumption fossi ruet, petroleum reconsumption, fossi r	energy exchange, ocean microstructure, ocean circulation, sea water
problem problem	salinity, oceanic stirring, sea-water temperature
problem energy resources, fission fuels, power, fossil fuel, fusion fuels	energy-information interaction, entropy in communication power,
geothermal energy, solar energy, add 1971 Sept p 60-70 [663]	energy-information interaction, entropy in communication posser, information flow, information theory, thermodynamics
to the transport solar	1971 Sept p 179-183 [670]
energy conversion, solar energy, light absorption, pignettis June p 97-106	. , . ,

energy levels, radar, microwaves, spectroscopy, molecular bonds,	convection currents plants, thermoregulation, solar radiation, thermal
coherent radiation, resonance absorption, quantum jumps, quantum	radiation, transpiration, heat transfer in plant leaves
electrodynamics, time-keeping, foundation of maser, laser	1965 Dec p 76-84 [1029] energy transformation, ATP, muscle contraction, fermentation, citric-acid
technology 1948 Sept p 16-23	cycle 1953 Apr p 85–92
solid state physics, crystal structure, X-ray diffraction, ionic bonds,	actinomyosin, mechanochemical engine muscle contraction
covalent bonds, metallic bonds, molecular bonds, the nature of solids 1952 Dec p 39-49 [249]	1954 Mar p 72–76
matter, wave-particle duality, electromagnetic force, nuclear forces,	heat, propulsion aerothermodynamics, laminar flow, turbulence, high
gravitation, field theory, fundamental research, quantum jumps,	temperatures propulsion 1954 Sept p 120–131
corpuscular streams, what is matter? 1953 Sept p 52–57 [241]	phosphors, absorption line, energy emission 1954 Oct p 62-66 [237]
elementary particles, atom, nucleus, high-energy physics, spectroscopy,	solar battery, solid state physics, semiconductor, photoelectric effect
'three spectroscopies' 1968 May p 15-19	1955 Dec p 102–110
coherent radiation, interference, Brillouin scattering, laser light	cosmology, universe, steady-state universe, according to Hoyle
1968 Sept p 120–136	1956 Sept p 157–166 battery fuel cell, electric power generation, energy economics direct
microwaves, interstellar matter, maser, hydroxyl radical, infrared astronomy, protostars, interferometry 1968 Dec p 36-44	conversion chemical to electric energy 1959 Oct p 72–78
astronomy, protostars, interferometry 1968 Dec p 36-44 atomic nucleus, chemical bond, gamma radiation, molecular structure.	cytology, ATP, mitochondrion, citric-acid cycle, glycolysis oxidative
Mossbauer spectroscopy 1971 Oct p 86–95	phosphorylation, membrane, energy transformation in the cell
Doppler effect, gas laser, laser spectroscopy, spectroscopy	1960 May p 102–114
1973 Dec p 69-85	nuclear power, recycling, materials fusion reactor, fusion torch, plasma
helium-cadmium laser, helium-selenium laser, laser, metal-gas	containment, magnetohydrodynamics 1971 Feb p 50-64 [340]
mixtures, metal-vapor lasers 1973 Feb p 88	energy demand, fuel-conversion efficiency, power, prime movers, steam
energy output, bird flight, metabolism, wind tunnel experiments, gull,	turbines, magnetohydrodynamics, gas turbine, internal combustion engine, fuel cell, solar cells, power, nuclear power, comparative
budgengar 1969 May p 70–78 [1141] energy policy of U.S.A, the coal option 1978 Jan p 64	efficiencies of energy transformation pathways in industrial
energy policy of U.S.A, the coal option 1978 Jan p 64 energy resources, solar energy, residential heating, windows, low-	civilization 1971 Sept p 148–160 [668]
potential energy, hot water, Sun can supply most of the 30 percent of	engine efficiency, automobiles, energy conservation, fuel consumption
fuel energy consumed in domestic heating 1951 Feb p 60-65	1975 Jan p 34-44
oil shales, shale rotors, mining, fossil fuel, oil from shales	engineering curriculum, U S recommendations 1956 June p 56
1952 Feb p 15–19	engineering failure, molasses-tank disaster 1972 Mar p 44
coal, natural gas, oil reserves, energy economics, fossil fuel, impending	engineering manpower, labor force, employment by industry, disciplinary distribution 1951 Sept p 65-68
petroleum shortage 1956 Oct p 43-49 economic development, energy technology, industrialization,	shortage of 1951 July p 28
population, fuel consumption, energy requirements and resources for	enrollments up 1952 Mar p 36
economic development 1963 Sept p 110–126	in short supply 1956 May p 54
energy consumption, fission fuels, power, fossil fuel, fusion fuels,	enrollment down 1960 Aug p 72
geothermal energy, solar energy, tidal energy	engineers, scientists, low on happiness scale 1955 Apr p 50
1971 Sept p 60-70 [663]	English horn, musical instruments, vibrating air column, clarinet, oboe,
coal gasification, gas turbine, pollution control, oil gasification 1972 Oct p 26-35	flute, bassoon, saxophone, physics of the wood winds 1960 Oct p 144-154
hydrogen, electrolyzer technology, hydrogen-energy economy, liquified	English Kinsey report, human sexual behavior, cousins 1950 Apr p 32
hydrogen, cryogenic storage, fuel cell 1973 Jan p 13–21	English medieval village, medieval life, Wharram Percy site
coal gasification, gasification processes, Lurgi process, Hygas process,	1976 Oct p 116–128
synthane process, CO ₂ acceptor process, coal technology	English poetry, Copernican revolution, 'Space Rapture'
1974 Mar p 19–25	Eniwetok tests, atomic bomb 1977 June p 120–129 [367] 1949 Oct p 20–21
energy conservation, nuclear reactor, fission reactor, nuclear-waste disposal, atomic-weapon proliferation, Rasmussen report	Eniwetok tests, atomic bomb 1949 Oct p 20-21 enkephalins, brain function drug action, drug addiction, endodorphins,
1976 Jan p 21–31 [348]	internal opiates, opiate receptors brain endocrinology
coal hydrogenation, coal liquefaction, energy economics, oil and gas	1977 Mar p 44-56
from coal 1976 May p 24-29	enriched uranium, nuclear power, fission reactor, heavy-water reactor,
fuel imports, liquid natural gas, technology assessment, risk estimation,	homogeneous reactor, A E C program 1951 Apr p 43-50
tankers, LNG 1977 Apr p 22–29	Enrico Fermi Award, Atoms for Peace Award, 1958 winners
petroleum, oil reserves, oil consumption, OPEC, finite horizon of petroleum energy economy 1978 Mar p 42-49 [930]	enteroviruses, poliomyelitis virus Coxsackie virus, tissue culture, echo
Athabasca tar sands 1948 Nov p 24	viruses, epidemiology, benign and infectious intestinal viruses
petroleum alternatives 1974 Feb p 43	1959 Feb. p. 8897
windfull power 1974 May p 61	entomology, bacteriology, biological pest control, agricultural pest,
nuclear power as principal option 1975 May p 42	insecticide, insect physiology, virology, living insecticides
energy plantations 1976 Mar p 60B energy storage, energy economics, economic geography, pipelines, power	silkworm, juvenile hormone, insect metamorphosis, hormone arrests
transmission, tankers, power, economic geography of energy	development 1958 Feb p 67–74
production, distribution and consumption	photoperiodicity, insect diapause, Lepidoptera, hibernation governed
1971 Sept p 164-175 [669]	by photoperiodicity 1960 Feb p. 108-118
automobile propulsion, electric power generation composite materials materials technology, flywheels 1973 Dec p 17-23	insect venom Chaga's disease, assassin bugs, predator-prey
energy technology, economic development, industrialization, population.	relationship, natural history 1960 June p 72-78 Africa termite, insect behavior, air conditioning airconditioned
fuel consumption, energy resources, energy requirements and	termite nests 1961 July p. 138 146
resources for economic development 1963 Sept. p. 110–126	aerial plankton, animal migration species dispersion insect
energy demand thermal pollution Industrial Revolution biosphere	physiology, agricultural pest, wind-borne dispersal of species
fossil fuel cycle, carbon dioxide, industrial emissions, modification of natural cycles by man 1970 Sept. p. 174-190 [1197]	1963 Dec n 122 129
cooling towers, heat exchange, industrial cooling, microclimate	aquatic insect, insect eggshell respiration, adaptation selective
1071 May = 70-78	homborders besets as
energy transfer, superconductors, electron nairs, organic superconductor	entropy, communication, information theory thermodynamics
proposal for room-temperature superconductor 1965 Feb p 21-27	1949 July p 11–15
	15 15 dry the [1-12

collectors

```
endocranial easts, African hominids, brain evolution, Iossil hominid
                                                                                      energy cycle, ecology, biomass, solar energy, food chain, element
       brains, hominid, human brain, pongid brains
                                                                                           abundance, autotrophs, heterotrophs, the ecosphere
                                                    1974 July p. 106-115 [686]
    brain evolution, brain size, cephalization index, intelligence,
                                                                                                                                             1958 Apr. p. 83-92
                                                                                        wind, solar radiation, biosphere, albedo, atmospheric circulation,
       paleoneurology
                                                     1976 Jan. p. 90-101 [568]
                                                                                           climate, ocean circulation, terrestrial radiation, carbon dioxide
  endocrine function, found in arteries
                                                               1951 Sept. p. 52
                                                                                           'window', Earth energy cycle
  endocrine hormones, cell receptors, gene regulation, hormonal action,
                                                                                                                                      1970 Sept. p. 54-63 [1189]
                                                                                        solar radiation, photosynthesis, biosphere, agricultural ecosystem,
       protein synthesis, steroid hormones
                                                     1976 Feb. p. 32-43 [1334]
                                                                                          climax ecosystem, ecosystem, food chain, respiration, biosphere
 endocrine system, physiology, nervous system, respiration, nerve impulse,
                                                                                          energy cycle
       muscle contraction, science, physiology 1900-1950
                                                                                                                                      1970 Sept. p. 64-74 [1190]
                                                                                        celestial energy, cosmological 'hangups', power, radiation energy,
                                                           1950 Sept. p. 71-76
                                                                                          entropy per unit energy, gravitational energy, stellar evolution,
    pituitary gland, ACTH, gonadotrophic hormones, metabolic hormones,
                                                                                          thermonuclear energy
                                                                                                                                      1971 Sept. p. 50-59 [662]
      growth hormone, the master gland
                                                            1950 Oct. p. 18-22
                                                                                        Eskimo, hunting societies, food chain, seal, power, Baffin Island,
    ACTH, hormone, sexual characteristics, growth, thyroid-stimulating
                                                                                          ecosystem
                                                                                                                                    1971 Sept. p. 104-115 [665]
      hormone, follicle-stimulating hormone, prolactin, androgens,
                                                                                       animal husbandry, ecosystem, agricultural system, power, New Guinea,
       estrogens, secondary sexual characteristics, human physiology,
                                                                                          tropical agriculture
                                                                                                                                   1971 Sept. p. 116-132 [666]
      chemical integrators of the body
                                                   1957 Mar. p. 76-88 [1122]
                                                                                       industrial society, U.S. economy, power, ecosystem, environmental
    brain function, cyclic AMP, dopamine, messenger molecules, nervous
                                                                                                                                   1971 Sept. p. 134-144 [667]
                                                                                         protection
      system, neurotransmitters, L-DOPA treatment, Parkinson's disease,
                                                                                       biosphere, photosynthesis, respiration, power, radiation energy, solur
       'second messengers', brain endocrinology
                                                                                         radiation, terrestrial radiation
                                                                                                                                    1971 Sept. p. 88-100 [664]
                                                 1977 Aug. p. 108-119 [1368]
                                                                                      climatic change, coral reefs, fossil reefs, marine ecosystems, reef
 endocrinology, cockroach, woodroach, cockroach as laboratory animal
                                                                                                                                     1972 June p. 54-65 [901]
                                                                                         evolution
                                                          1951 Dec. p. 58-63
                                                                                      nitrogen fertilizer, nutrient cycle, soil structure, food and agriculture,
 endoderm, cell differentiation, embryonic development, blastula, gastrula,
                                                                                                                                          1976 Sept. p. 74-86
                                                                                         food chain
      fertilization, ectoderm, mesoderm, embryological 'organizer', science
                                                                                      forest, ecosystem, partitioning of energy in a New England forest
      history, review of classical embryology
                                                    1957 Nov. p. 79-88 [103]
                                                                                                                                  1978 Mar. p. 92-103 [1384]
    cell differentiation, embryonic development, pancreas, mesoderm,
                                                                                    energy demand, breeder reactor, fission reactor, uranium fission,
      tissue culture
                                                                                                                                          1967 May p. 25-33
                                                   1969 Mar. p. 36-44 [1136]
                                                                                        plutonium, 'third generation' breeder reactors
 endodorphins, brain function, drug action, drug addiction, enkephalins,
                                                                                      fission reactor, electric power, nuclear power, fossil fuel, energy
      internal opiates, opiate receptors, brain endocrinology
                                                                                        economics, history and prospects of nuclear power in U.S.
                                                          1977 Mar. p. 44-56
                                                                                                                                          1968 Feb. p. 21-31
   internal opiates
                                                                                      thermal pollution, Industrial Revolution, biosphere, energy technology,
                                                              1977 Feb. p. 50
 endogamous group, Dunkers, genetic drift, ear lobes, blood typing, 'hitch-
                                                                                        fossil fuel cycle, carbon dioxide, industrial " " ... "
                                                                                                                               1970 Sept. p. 174 175 ...
      hiker's' thumb
                                                   1953 Aug. p. 76-81 [1062]
                                                                                        natural cycles by man
 endoplasmic reticulum, cell nucleus, cytoplasm, cell organelle,
                                                                                     breeder reactor, nuclear power, fast neutron reactor, uranium cycle,
      chromosome, cell physiology, RNA, DNA, cytology, nuclear control
                                                                                        thorium cycle, liquid-metal reactor, fission reactor
                                                                                                                                   1970 Nov. p. 13-21 [339]
                                                        1960 Jan. p. 126-136
      of cell
   cell membrane, electron microscopy, myelin sheath, mitochondria,
                                                                                     energy transformation, fuel-conversion efficiency, power, prime
                                                                                       movers, steam turbines, magnetohydrodynamics, gas turbine,
      nuclear membrane, electron microscope study of membranes in cell
                                                                                       internal combustion engine, fuel cell, solar cells, power, nuclear
                                                    1962 Apr. p. 64-72 [151]
                                                                                       power, comparative efficiencies of energy transformation pathways
   cell membrane, cell secretion, exocytosis, membrane fusion, fluid-
                                                                                                                                1971 Sept. p. 148-160 [668]
      mosaic model of membrane
                                                   1975 Oct. p. 28-37 [1328]
                                                                                       in industrial civilization
                                                                                  energy economics, Middle East oil, petroleum resources, Persian Gulf
endosymbiosis, cell evolution, cell organelle, chloroplast, eukaryotic cells,
                                                                                       fields, economic development, Iran, Iraq, Saudi Arabia
     mitochondria, symbiosis, prokaryotic cells, algae, cilia, flagella,
                                                                                                                                         1948 Sept. p. 9-15
      plastids
                                                  1971 Aug. p. 48~57 [1230]
                                                                                    nuclear power, cost assessment, capital cost, competitive with fossil
endothermy, birds, dinosaurs, ectothermy, metabolism, birds descended
                                                                                                                                        1951 Jan. p. 32-38
     from dinosaurs
                                                   1975 Apr. p. 58-78 [916]
                                                                                      fuels
                                                                                    coal, energy resources, natural gas, oil reserves, fossil fuel, impending
endotoxins, bacterial infection, exotoxins, toxins, bacterial toxin, effects
                                                                                                                                        1956 Oci. p. 43-49
                                                        1964 Mar. p. 36-45
                                                                                      petroleum shortage
     of endotoxins
                                                                                    fission reactor, breeder reactor, nuclear power, atomic power in U.K.
endrin, insecticide, implicated in fish deaths
                                                            1964 May p. 64
                                                                                                                                       1958 Mar. p. 29-35
energy, heat, thermodynamics, quantum mechanics, entropy, equation of
                                                                                   fission reactor, nuclear power, fuel rods, design of reactor fuel elements
     state, black body radiation, temperature, What is heat?
                                                                                                                                       1959 Feb. p. 37-43
                                                       1954 Sept. p. 58-63
                                                                                   battery, fuel cell, electric power generation, energy transformation.
   matter, momentum, high-energy physics, conservation law,
                                                                                                                                       1959 Oct. p. 72-78
     conservation laws in particle physics
                                                        1963 Oct. p. 36-45
                                                                                     direct conversion chemical to electric energy
                                                                                   fission reactor, breeder reactor, nuclear power, thorium cycle, uranium
   power machines, mechanical energy, biological energy, economic
                                                                                                                                       1960 Jan. p. 82-94
     development, power, introduction to a single-topic issue on energy
                                                                                     cycle, breeder reactor development
                                                                                   tar sands, oil shales, petroleum, shale retorts, potential liquid-
                                                 1971 Sept. p. 36-49 [661]
     and power
                                                                                                                                      1966 Feb. p. 21-29
                                                                                     hydrocarbon reserves
                                                           1974 June p. 48
   input to U.S. food system
                                                                                   fission reactor, energy demand, electric power, nuclear power, fossil
energy conservation, nuclear power, fossil fuel, solar energy, synthetic
                                                                                     fuel, history and prospects of nuclear power in U.S
                                                  1974 Jan. p. 20-29 [684]
     fuels, energy policy of U.S.
                                                                                                                                      1968 Feb p. 21-31
  automobiles, engine efficiency, fuel consumption
                                                       1975 Jan. p. 34-44
                                                                                  energy storage, economic geography, pipelines, power transmission,
  energy resources, nuclear reactor, fission reactor, nuclear-waste
                                                                                    tankers, power, economic geography of energy production.
     disposal, atomic-weapon proliferation, Rasmussen report
                                                                                                                             1971 Sept p 164-175 [669]
                                                                                    distribution and consumption
                                                  1976 Jan. p. 21-31 [348]
  consumer-product research, consumer protection, household
                                                                                  decision theory, power production, technology assessment, tort law
                                                                                                                            1971 Sept p 191 200 [671]
                                                                                    economic planning, market process
     appliances, product safety, product technology, N.B.S.
                                                                                  coal hydrogenation, coal liquefaction, energy resources, oil and gas
                                                       1977 Dec. p. 47-53
                                                                                                                                    1976 May p 24-29
                                                                                    from coal
                                                          1977 Apr. p. 57
  in appliances, buildings
                                                                               energy emission, phosphors, absorption line, energy transformation
energy consumption, fossil fuel, petroleum reserves, coal reserves, liquid-
                                                                                                                               1954 Oct p 62 66 [237]
     fuel consumption, shale, tar sands, coal liquefaction, the fuel
                                                                               energy exchange, ocean microstructure, ocean circulation, sea-water
                                                      1949 Dec. p. 32-39
                                                                                   salinity, oceanic stirring, sea-water temperature
     problem
  energy resources, fission fuels, power, fossil fuel, fusion fuels,
                                                                                                                              1973 Feb p 64 77 [905]
     geothermal energy, solar energy, tidal energy
                                                                               energy-information interaction, entropy in communication, power,
                                                1971 Sept. p. 60-70 [663]
                                                                                   information flow, information theory, thermodynamics
energy conversion, solar energy, light absorption, pigments, solar
                                                                                                                           1971 Sept p 179 188 [670]
                                                     1956 June p. 97-106
```

disease, cholera, plague, yellow fever 1953 Feb p 22–27 poliomyelitis, gammaglobulin, immunity, blood fractionation, vaccine	equatorial rain forests, agricultural production, tropical climate, laterization, developing countries, lateritic soil 1964 Nov p 96–102 [870]
Hutterites, mental health, psychosis, standard expectance method (440)	equivalent sets, infinity, set theory, cardinal number, Cantor 1952 Nov p 76–84
1953 Dec p 31–37 [440] emotional illness, mental health, schizophrenia, family, psychosis,	ergonomics, psychology, instrument panel, pilot error, designing
income status 1954 Mar p 38–42 [441]	instrument panels for their users 1953 Apr p 74-82 [496]
suicide, psychoanalysis 1954 Nov p 88–96	ergot, mycology, fungi, wheat rust, potato blight, morel, amanita,
vaccine, poliomyelitis virus, antibody persistence 1955 Apr. p 42-44	Penicillium notatum, yeast, molds and men
premature infants, retrolental fibroplasia, oxygen, infant mortality,	1952 Jan p 28-32 [115]
blindness, 'blind babies' 1955 Dec p 40-44	LSD, psychosis, psychoanalysis, experimental psychoses
immunology, virology, influenza virus, public health, structure and	1955 June p 34–39
biochemistry of flu virus 1957 Feb p 37-43	erosion, Eocene epoch, Yellowstone National Park, petrified wood, volcanic sediments, petrified forests of Yellowstone
enteroviruses, poliomyelitis virus, Coxsackie virus, tissue culture, echo viruses, benign and infectious intestinal viruses 1959 Feb p 88–97	1964 Apr p 106–114
Chaga's disease, public health, 'zoonoses', parasitism, trypanosomiasis,	forestry, nitrogen fixation, ecosystem, resource management, runoff,
malaria, filariasis, leishmaniasis, plague, yellow fever, typhus, animal	watershed, deforestation, deforestation experiment
infection and human disease 1960 May p 161–170	1970 Oct p 92–101 [1202]
Anopheles mosquito, tropical medicine, malaria, Plasmodium, W H O	Earth evolution, plate tectonics, solar system 1975 Sept p 82–90
malaria eradication 1962 May p 86-96	dust storms, Mars, terrestrial planets, cratering, tectonic processes,
eye disease, trachoma, virus disease, vaccination, immunization 1964 Jan p 79-86	mountain formation, hydrology, solar system 1975 Sept p 106-117 architecture, sculpture, marble, limestone, atmospheric pollution,
human behavior, bubonic plague, public health, Black Death,	weathering, preservation of stone 1978 June p 126–136 [3012]
population history, long-term effects of plague, Europe 1348-50	erosion rate, US landmass 1964 Oct p 58
1964 Feb p. 114–121 [619]	erothrocyte, sickle cell disease, gene mutation, genetic disease, single
bacteria, flies, maggot, dysentery, virology, disease vector	gene-single aminoacid deletion 1958 Jan p 68–74
1965 July p 92-99	error-correcting codes, computer programming, computer technology,
congenital anomalies, genetic disease, hemophilia, mutation, in Queen	redundancy for error detection 1962 Feb p 96–108
Victoria's descendants 1965 Aug p 88–95	erythrocyte, blood plasma, blood fractionation, leukocyte, platelets, centrifuge, blood transfusion, blood banks 1954 Feb p 54-62
atherosclerosis, cardiovascular disease, human nutrition, arteries, cholesterol, coronary occlusion, diet, lipids, plaque, artery wall	metabolism, oxygen starvation, acclimatization, attitude adaptation
1966 Aug p 48–56	1955 Dec p 58–68
air pollution, rickets, vitamin D, ultraviolet radiation, osteogenesis,	comparative physiology, hematology, structure of red blood cell
calcium metabolism, sunlight 1970 Dec p 76–91 [1207]	1957 Jan p 95–102
gotter, hypothyroidism, iodine deficiency, thyroid, iodized salt	cell membrane, pores 1960 Dec p 146–156
1971 June p 92–101 [1223]	'anomalous' water, 'biological' water, blood, hemoglobin, water,
bacterial toxin, cholera, disease, medical care, sanitation, water supply 1971 Aug p 15-21	membrane permeability, osmosis, van 't Hoff law 1971 Feb p 88–96 [1213]
ecological histoplasmosis 1973 May p 44	chemotherapy, cyanate, genetic disease, anemia, hemoglobin, sickle cell
esophagal cancer 1974 May p 60	disease 1975 Apr p 44-50 [1319]
WHO, 'river blindness' in Africa 1975 Oct p 53	escape response, marine invertebrates, starfish, limpets, scallop, prey-
river blindness in Africa 1975 Oct p 53	predator relationship, snail, chemical signals
see also cancer epidemiology epidemal cells, wound healing, regeneration, leukocyte, fibroblasts,	1972 July p 92–100 [1254] animal behavior, neurophysiology, toad, visual perception, visually
collagen 1969 June p 40–50 [1144]	guided behavior 1974 Mar. p 34–42 [1293]
epidermal ridges, dermatoglyphics, skin, chromosomal anomalies	escape velocity, atmosphere, photosynthesis, volcanoes, water of
1969 Dec p 72-84 [1164]	crystallization, nitrogen, oxygen, origin and evolution of Earth's
epidermis, flagella, contractile proteins, keratin, myosin, 'k m e f' group.	atmosphere 1953 Aug p 82–86 [824]
motility in bacteria 1951 Jan p 20–24	Escher's prints, art, optical illusion, perception of pictures, psychology, visual perception 1974 July p. 90–104 [560]
cancer, ultraviolet radiation, melanocytes, suntanning, skin, vitamin D 1968 July p 38-46	visual perception 1974 July p 90–104 [560] Eskimo, Aleuts, genocide, Aleutian Islands, Aleuts as 'Southern Eskimos'
epilepsy, blood-brain barrier, brain metabolism, neurology,	1958 Nov. p. 112–124
neurophysiology, physiology of the barrier and its reinforcement	New World archeology, Onion Portage site, Bering land bridge, human
1956 Feb p 101-106	migration, Alaska, stone artifacts, gateway to America
deep-sleep treatment 1953 Oct p 58 Epimenides' paradox, antinomy, paradox, mathematical logic, logic,	1968 June p 24-33
barber paradox, undecidable questions, Godel's proof, Grelling's	Amerindian, burial site, New World archeology, 2000 B C, Port au Choix, Newfoundland, skeletons 1970 June p 112–121 [657]
paradox, Zeno's paradox, paradox and foundations of logic	energy cycle, hunting societies, food chain, seal, power, Baffin Island,
1962 Apr p 84-96	ecosystem 1971 Sept p 104–115 16651
epinephrine, ACTH, ATP, glucogenesis, glycolysis, hormone, cell	ESP: extrasensory perception
metabolism, cyclic AMP, activation of cyclic AMP by hormones 1972 Aug p 97-105 [1256]	ESP, statistical significance 1953 Oct p 54
Epistles of St. Paul, computer analysis 1964 Jan p 56	essential elements, elements, living matter, metallo-enzymes, fluorine, silicon, tin, vanadium, list of elements essential to life lengthened to
epitaxial growth, materials technology, solid state physics, crystal defects.	24 1972 July p. 52 60
surface chemistry, precipitation in solids, 'doping', chemical	essential oils, oleoresins steam distillation, vacuum distillation, flavors
properties of materials 1967 Sept p 210-220 epithelium, cell membrane, intercellular communication, salivary gland,	periumes 1953 Aug n 70 74
molecular signals, membrane permeability, junctions in cell	estimation theory, batting averages statistics, Stein's paradox, approach of averages to norm 1977 May p. 119, 126 (262)
membrane 1970 May p. 78–86 [1178]	of averages to norm 1977 May p 119-126 [363] estrin, twins, identical twins, fraternal twins, ovulation, physiology of
epoxy resins, adhesive, molecular attraction, surface tension, elastic	twinning 1951 Ion = 40 51
energy, molecular repulsion, micromechanics of adhesion	estrogers, ACIA, normone, sexual characteristics, growth, thurseld
1962 Apr p 114-126 equation of state, heat, thermodynamics, quantum mechanics entropy,	sumulating normone, follicle-stimulating hormone, prolecting
energy, black body radiation, temperature, What is heat?	androgens secondary sexual characteristics, human physiology, endocrine system, chemical integrators of the body
1954 Sept. p. 58-63	1957 Nor n. 76 88 (1122)
equatorial bulge, artificial satellite, Earth, orbital motion gooid, shape of the Earth 1967 Oct. p. 67-76 18731	actinomyosin, ecdysone, cortisone, insulin, gene activation, RNA
the Earth 1967 Oct p 67–76 [873]	synthesis, aldosterone, growth hormone, ACTH, thyroxin,

heat, thermodynamics, quantum mechanics, equation of state, energy	
black body radiation, temperature, What is heat?	The state of the s
1054 Sant - CO	diagnosis, nemophilia, Down's syndrome, Tay-Sachs disease
friction, perpetual motion machines, thermodynamics	
1068 for = 114 1	genetic disease, milk sugar, lactose tolerance, milk-digestion problem
arrow of time, time reversal, information theory hierarchy of	
Structures, macroscopic information increase 1075 Dec. 7.66	fat metabolism, genetic disease, amniocentesis, Tay-Sachs disease,
entropy in communication, energy-information interaction, now or	The state diseases, To tipid-stotage diseases
information flow, information theory, thermodynamics	enzyme function, electron orbit 1973 Aug p 88-97 1970 Aug p 46
1971 Sept p 170 188 167	
entropy per unit energy, celestial energy, cosmological 'hangune' energy	least-to-delivery and assembly
cycle, power, radiation energy, gravitational energy, stellar evolution	n. enzyme-substrate complex enzymes dialysis cotalysis
incrmonuclear energy 1971 Sept n 50 50 166	2] 1959 Aug p 119-125
enucteation, microsurgery, micromanipulator, cytosurgery	lysozyme, X-ray crystallography protein folding amino-acid sequence
1950 Oct p 48–5	three-dimensional structure and action of lysozyme
environment, biosphere, Earth, evolution, photosynthesis, atmosphere-	1966 Nov p 78-90 [1055]
hydrosphere cycles, introduction to single-topic issue on biosphere	COZVINES, Catalysis direction recognization fermentation lock-and lev
1970 Sept p 44–53 [1188	theory, science history 1948 Dec p 28-39
intelligence, race, whites IQ, heredity, American Negro, heredity,	co-enzymes, citric-acid cycle 1949 Sept p 48-50 [15]
population genetics, science policy, social psychology, twins, racial discrimination	biochemistry, virus, citric-acid cycle, metabolism, co-enzymes sulfa
	2
environmental carcinogens, carcinogenesis, cancer epidemiology, immune response, gene mutation, virus disease, cancer prevention	
1075 Nov. n. 64, 79 (1220	fat metabolism, fatty acids, coenzyme A, ATP 1954 Jan p 32-36 [16]
1975 Nov p 64-78 [1330 environmental health, bronchitis, air pollution, emphysema, public health,	
smog, US cities, smog and public health 1961 Oct p 49-57 [612]	
cooperation of US and USSR 1972 Apr p 55	
environmental legislation, DDT bans 1969 June p 57	tetrapyrrole virtuosity 1958 Aug p 77-81
environmental pollution, ionizing radiation, background radiation,	beer, yeast, brewing, fermentation, hops, chemistry and microbiology of brewing 1959 June p 90-100
nuclear medicine, atomic bomb test, introduction to single-topic	enzyme-substrate complex, dialysis, catalysis 1959 Aug p 119-125
tissue on ionizing radiation 1959 Sept p 74-83	autolysis, lysosomes, phagocytosis, pinocytosis, metamorphosis
atomic bomb test, ionizing radiation, isotopes, fallout, nuclear	cellular digestive organ, 'suicide bag' 1963 May p 64-72 [156]
medicine, circulation of radioisotopes 1959 Sept p 84-93	grape fermentation, wine, yeast, viticulture, climate, chemical
ionizing radiation, fallout, atomic bomb test, radiation damage,	explanation of a good wine, role of climate
mutation, public health, hazards of radiation to society	1964 Aug p 46-56 [190]
1959 Sept p 219-232 [1214]	proteins, peptide bond, zymogen, trypsin, proteolytic enzymes
forest ecosystem, X-ray, gamma radiation, white oak, atomic bomb	hydrolysis structure and function of protein digesting enzymes 1964 Dec p 68-79
test, weeds, ecological effects of high-energy radiation	1964 Dec p 60 17
1963 June p 40-49 [159]	protein synthesis, hemoglobin, myoglobin, control systems feedback cooperative enzymes, allosteric enzymes, control of biochemical
fission reactor, nuclear power, public health, radioactive waste disposal, underground storage 1977 June p 21-31 [364]	reactions 1965 Apr p 36-45 [1008]
fallout, atomic radiation 1956 July p 46	autolysis, lysosomes, phagocytosis, lysis, chromosome breakage
oceanic oil pollution 1962 Nov p 71	lucasama implication in disease processes
recycling plant, garbage processing 1967 Jan p 58	1967 Nov p 62-72 [1085]
PCB's and bird eggs 1969 Feb p 44	ATP, mitochondrion, glycolysis, cell membrane, oxidative
environmental protection, energy cycle, industrial society, US economy,	phosphorulation, cell metabolism, mitochandrial membrane
power, ecosystem 1971 Sept p 134–144 [667]	1968 Feb p 32-39 [1101]
UN conference in 1972 1969 Aug p 48	ceruloplasmin hemocyanin, oxygen transport, copper deficiency,
Washington responds to public concern 1970 Apr p 44	cytochrome oxidase, copper biochemistry, Wilson's disease tyrosinase 1968 May p 102-114
nuclear-plant regulation 1971 Dec p 40	tyrosinase 1968 May p 102-11-11 chemical reaction, chemical kinetics, allosteric enzymes proton
UN conference on the human environment 1972 Aug p 42 Environmental Protection Agency, proposed 1970 Sept p 79	transfer actalysis abanyal aguilibrium relayation methods in
Environmental Protection Agency, proposed 1970 Sept p 79 environmental stimuli, brain development, learning memory, rats,	chemistry 1969 May p 30-41
sensory deprivation 1972 Feb p 22–29 [541]	call membrane, artificial membranes, enzyme action, enzymes as
rat experiments 1971 Sept p 84	industrial catalysts 1971 Mar D 20-33 [1210]
environmental toxins, anemia, brain damage, blood disorders, kidney	for wound healing 1949 Dec p 28
disorder, lead poisoning nerve disorders 1971 Feb p 15–23 [1211]	extra-cellular enzyme production 1961 July p 66 67 specificity and universality of binding sites 1974 Mar p 45
enzyme, alcohol metabolism detoxification, drug inactivation, liver	
function, metabolism of drugs cirrhosis 1975 June p 22-31 [1322]	For as as permant, gravitational constant, science history general
enzyme action, insulin, protein structure, ribonuclease, amino-acid	relativity, Eotvos experiment confirmed 1961 Dec p 84-94
sequence, myoglobin resolution of atomic structure of three molecules 1961 Feb p 81-92 [80]	astrophysics red shift measurement relativity theory gravitation
molecules 1901 res p 81-52 [00] cell membrane, enzymes artificial membranes enzymes as 100 23 113161	theories assessed 1974 Nov P 24-33
catalysts [97] Mar p 20-33 [1210]	Eocene epoch, Yellowstone National Park petrified wood erosion,
lock and her theory, molecular structure protein shape-change,	volcanic sediments petrified forests of Yellowstone 1964 Apr p 106-114
(9/3 UCL D 32-04 [1200]	
The second protein-culting engines, Droleoly lie cita inco serum	epidemiology, histoplasmosis fungal infection respiratory infection
proteins, chymotrypsin elastase, trypsin 1974 July proteins	airborne infection, coccidioidomycosis 1948 June p. 12-13
m i i i i i i i i i i i i i i i i i i i	morbidity mortality rates economic development income stitus
enzy me blood levels, cancer, myocardial infarction hepatitis cancer diagnosis leukemia, medical diagnosis diagnosis by presence of	occupational health 'social medicine, environment in sterial well
	being, behavior of disease 1949 Apr. p. 11-15 poliomyelitis virus central nervous system infective specificity
abnormal citzymes	infective specificity, nature of the disease and public health stitus
and-key theory how is a protein made? 1953 Sept p 100-106	hefore production of the vaccines 1950 Aug D 27 26
The state of the s	stress anoxia pregnancy Down saynarome trisomy 21 Chology of
tRNA, fragment assembly first nucleotide sequence	Down's syndrome 1952 Leb p 40 66

1966 Feb p 30-39 [1033]

nimal behavior, innate behavior, lovebird, sexual behavior,	electromagnetic radiation, electron-hole liquid, quantum mechanics,
interspecies differentiation of behavior 1962 Jan p 88-98	semiconductor 1976 June p 28–37
nsect behavior, bee dances, social insect, evolutionary 'dialects' of	exciton split, electron-hole pair 1969 May p 56
'language of the bees' 1962 Aug p 78-86	exclusion principle, atom, Pauli, theoretical physics, antimatter, quantum
nfra-Cambrian Ice Age, glaciation, fossil record, continental drift,	mechanics, structure of atoms and nuclei 1959 July p 74-86 [264]
paleomagnetism 1964 Aug p 28–36	executive, predicting success 1961 May p 84
ntelligence, habit reversal, probability learning, intelligence compared	exercise, brown fat, altitude adaptation, Quechua Indians,
in five animals 1965 Jan p 92–100 [490]	acclimatization, deer mice, hemoglobin, metabolic rate, human
hemoglobin, myoglobin, molecular evolution, amino acids,	physiology at high altitude 1970 Feb p 52–62 [1168]
evolutionary distance measured by amino-acid substitution	exercise adaptation, breathing, heart, blood circulation, hemoglobin,
1965 May p 110–118 [1012]	human physiology 1965 May p 88–96 [1011]
	exocytosis, cell membrane, cell secretion, endoplasmic reticulum,
bee dances, insect behavior, directional orientation, species specificity, communication by sound, by dancing 1967 Apr p 96–104 [1071]	membrane fusion, fluid-mosaic model of membrane
	1975 Oct p 28–37 [1328]
animal behavior, fossil tracks, fossil animal tracks, burrows	exoelectrons, Geiger counter, metal fatigue, metal-surface defects, wear
1967 Aug p 72–80 [872]	1977 Jan p 74–82 [350]
animal behavior, speciation, gulls, sexual behavior, innate behavior,	
ethology, species discrimination, Larus, eye rings	exotic atoms, atomic nucleus, atomic structure, kaonic atoms, muonic atoms, particle accelerator, pions, quantum mechanics, high-energy
1967 Oct p 94–102 [1084]	
lungfish, air-breathing fishes, Devonian period, fish physiology,	physics 1972 Nov p 102–110 antiproton 1970 Nov p 45
conquest of land-breathing organs 1968 Oct p 102-111 [1125]	
Darwinism, religion, Scopes trial, science teaching, creationism,	exotic molecules, comet origins, cometary structure, solar system,
antievolution laws in U S 1969 Feb p 15–21	primordial dust cloud, Comet Kohoutek 1974 Feb p 48–57
horn, antler, osteogenesis, bone, keratin, ungulates, differences between	exotoxins, bacterial infection, endotoxins, toxins, bacterial toxin, effects
horns and antlers 1969 Apr p 114–122 [1139]	of endotoxins 1964 Mar p 36–45
proteins, species specificity, computer analysis, cytochrome, amino-	experience, vision, learning, sensory deprivation, 'arrested vision', role of
acid substitution, phylogeny from amino-acid substitution	environment experience in normal development
1969 July p 86–95 [1148]	1950 July p 16–19 [408]
blood groups, genetic drift, mutation, consanguinity, gene pool,	experimental psychology, education, learning, memory, 'drill' in learning
population genetics, Parma Valley, Italy 1969 Aug p 30–37	1958 Aug p 68–72 [422]
gene pool, mutation, genetic load, electrophoresis, population genetics,	expert witnesses, criminal law, insanity defense, M'Naghten rule,
heterozygosity 1970 Mar p 98–107 [1172]	Durham rule, psychiatrists as witnesses 1974 June p 18–23
DNA repeat segments, genome size, sDNA, DNA-RNA hybridization	exploding wire, meteorites, shock waves, streak photography, generation
1970 Apr p 24–31 [1173]	of shock waves by exploding wire 1962 May p 102-112
biosphere, Earth, photosynthesis, environment, atmosphere-	explosion-suppression, by counter-explosion 1952 Feb p 36
hydrosphere cycles, introduction to single-topic issue on biosphere	explosions, shock waves, materials technology, solids, phase transitions
1970 Sept p 44–53 [1188]	1969 May p 82–91
albatross, animal behavior, bird flight, sexual behavior, soaring, natural	explosive compression, high-pressure technology, magnetism, ultrastrong
history 1970 Nov p 84–93 [1204]	magnetic fields, implosion, flux compression 1965 July p 64-73
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life,	exponential-time problems, algorithms, computer science, Koenigsberg
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems,
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life,	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395]
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30-42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56-66 [903]	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30-42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56-66 [903] air pollution, melanism, moths, gene mutation, population genetics,	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30-42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56-66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90-99 [1314]	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 'extended fine structure' effect, atomic structure, crystallographic
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30–42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56–66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90–99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism,	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 'extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30–42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56–66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90–99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 'extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption 1976 Apr p 96–103
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30-42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56-66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90-99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences curriculum study 1976 Apr p 33-39	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 'extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption 1976 Apr p 96–103 external combustion engines, Philips air engine, heat engines, Stirling
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30-42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56-66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90-99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences curriculum study 1976 Apr p 33-39 Darwinism, Huxley's own account, 'apes and bishops'	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 'extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption 1976 Apr p 96–103 external combustion engines, Philips air engine, heat engines, Stirling engine, hot-air engine
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30-42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56-66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90-99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences curriculum study 1976 Apr p 33-39 Darwinism, Huxley's own account, 'apes and bishops'	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 'extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption 1976 Apr p 96–103 external combustion engines, Philips air engine, heat engines, Stirling engine, hot-air engine 1948 July p 52–55 automobile engines, Stirling engine, engine efficiency
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30-42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56-66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90-99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences curriculum study 1976 Apr p 33-39 Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 'extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption 1976 Apr p 96–103 external combustion engines, Philips air engine, heat engines, Stirling engine, hot-air engine 1948 July p 52–55 automobile engines, Stirling engine, engine efficiency
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30–42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56–66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90–99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences curriculum study 1976 Apr p 33–39 Darwinism, Huxley's own account, 'apes and bishops' biology textbook controversy 1964 Oct p 56 organic molecules, early life on Earth 1965 June p 58	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 'extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption 1976 Apr p 96–103 external combustion engines, Philips air engine, heat engines, Stirling engine, hot-air engine 1948 July p 52–55 automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30–42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56–66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90–99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences curriculum study 1976 Apr p 33–39 Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules, early life on Earth 1965 June p 58 protein clock 1976 Nov p 70	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 'extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption 1976 Apr p 96–103 external combustion engines, Philips air engine, heat engines, Stirling engine, hot-air engine 1948 July p 52–55 automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation, ecological niche, 'Is man here to stay''
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30–42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56–66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90–99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences curriculum study 1976 Apr p 33–39 Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules, early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 'extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption 1976 Apr p 96–103 external combustion engines, Philips air engine, heat engines, Stirling engine, hot-air engine 1948 July p 52–55 automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation, ecological niche, 'Is man here to stay'' 1950 Nov p 52–55
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30–42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56–66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90–99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences curriculum study 1976 Apr p 33–39 Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules, early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 'extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption 1976 Apr p 96–103 external combustion engines, Philips air engine, heat engines, Stirling engine, hot-air engine 1948 July p 52–55 automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation, ecological niche, 'Is man here to stay'' 1950 Nov p 52–55 moas, evolution, hunting, New Zealand flightless birds
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30–42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56–66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90–99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences curriculum study 1976 Apr p 33–39 Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules, early life on Earth protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 'extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption 1976 Apr p 96–103 external combustion engines, Philips air engine, heat engines, Stirling engine, hot-air engine 1948 July p 52–55 automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation, ecological niche, 'Is man here to stay'' 1950 Nov p 52–55 moas, evolution, hunting, New Zealand flightless birds
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30–42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56–66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90–99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences curriculum study 1976 Apr p 33–39 Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules, early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers 1953 Dec p 65–72 hominid, Olduvai Gorge, toolmakers, human evolution, foodsharing	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 'extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption 1976 Apr p 96–103 external combustion engines, Philips air engine, heat engines, Stirling engine, hot-air engine 1948 July p 52–55 automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation, ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 moas, evolution, hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale, animal migration 1955 Jan p 62–66
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30–42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56–66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90–99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences curriculum study 1976 Apr p 33–39 Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules, early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers 1953 Dec p 65–72 hominid, Olduvai Gorge, toolmakers, human evolution, foodsharing evidence for protohuman behavior in two-million-year-old sites	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 'extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption 1976 Apr p 96–103 external combustion engines, Philips air engine, heat engines, Stirling engine, hot-air engine 1948 July p 52–55 automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation, ecological niche, 'Is man here to stay'' 1950 Nov p 52–55 moas, evolution, hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale, animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30–42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56–66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90–99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences curriculum study 1976 Apr p 33–39 Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules, early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers 1953 Dec p 65–72 hominid, Olduvai Gorge, toolmakers, human evolution, foodsharing evidence for protohuman behavior in two-million-year-old sites	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 'extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption 1976 Apr p 96–103 external combustion engines, Philips air engine, heat engines, Stirling engine, hot-air engine 1948 July p 52–55 automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation, ecological niche, 'Is man here to stay'' 1950 Nov p 52–55 moas, evolution, hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale, animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age extragalactic radio waves, radio astronomy, radio map of Galaxy, solar
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30–42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56–66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90–99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences curriculum study 1976 Apr p 33–39 Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules, early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers 1953 Dec p 65–72 hominid, Olduvai Gorge, toolmakers, human evolution, foodsharing evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90–108 [706] evolution of language, linguistics, information theory, a theory of natural	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 'extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption 1976 Apr p 96–103 external combustion engines, Philips air engine, heat engines, Stirling engine, hot-air engine 1948 July p 52–55 automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation, ecological niche, 'Is man here to stay'' 1950 Nov p 52–55 moas, evolution, hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale, animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age 1972 Mar p 60–72 extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30–42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56–66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90–99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences curriculum study 1976 Apr p 33–39 Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules, early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers 1953 Dec p 65–72 hominid, Olduvai Gorge, toolmakers, human evolution, foodsharing evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90–108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 'extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption 1976 Apr p 96–103 external combustion engines, Philips air engine, heat engines, Stirling engine, hot-air engine 1948 July p 52–55 automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation, ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 moas, evolution, hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale, animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age 1972 Mar p 60–72 extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sent p 34–41
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30–42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56–66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90–99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences curriculum study 1976 Apr p 33–39 Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules, early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers 1953 Dec p 65–72 hominid, Olduvai Gorge, toolmakers, human evolution, foodsharing evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90–108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language 1952 Apr p 82–87 evolutionary diversity, chromosome, mutation, science, genetics 1900-	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 'extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption 1976 Apr p 96–103 external combustion engines, Philips air engine, heat engines, Stirling engine, hot-air engine 1948 July p 52–55 automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation, ecological niche, 'Is man here to stay'' 1950 Nov p 52–55 moas, evolution, hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale, animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age 1972 Mar p 60–72 extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sept p 34–41 extranuclear DNA, cytoplasmic inhenitance, material inhenitance
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30–42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56–66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90–99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences curriculum study 1976 Apr p 33–39 Darwinism, Huxley's own account, 'apes and bishops' biology textbook controversy 1964 Oct p 56 organic molecules, early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers 1953 Dec p 65–72 hominid, Olduvai Gorge, toolmakers, human evolution, foodsharing evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90–108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language 1952 Apr p 82–87 evolutionary diversity, chromosome, mutation, science, genetics 1900–1950, one gene-one enzyme 1950 Sept p 55–58	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 'extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption 1976 Apr p 96–103 external combustion engines, Philips air engine, heat engines, Stirling engine, hot-air engine 1948 July p 52–55 automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation, ecological niche, 'Is man here to stay'' 1950 Nov p 52–55 moas, evolution, hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale, animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age 1972 Mar p 60–72 extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sept p 34–41 extranuclear DNA, cytoplasmic inheritance, maternal inheritance, mitochondria, chloroplast, Chlamydomonas
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30–42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56–66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90–99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences curriculum study 1976 Apr p 33–39 Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules, early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers 1953 Dec p 65–72 hominid, Olduvai Gorge, toolmakers, human evolution, foodsharing evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90–108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language 1952 Apr p 82–87 evolutionary diversity, chromosome, mutation, science, genetics 1900– 1950, one gene-one enzyme 1950 Sept p 55–58 evolutionary pressure, female size 1976 Sept p 55–58	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 'extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption 1976 Apr p 96–103 external combustion engines, Philips air engine, heat engines, Stirling engine, hot-air engine 1948 July p 52–55 automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation, ecological niche, 'Is man here to stay'' 1950 Nov p 52–55 moas, evolution, hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale, animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sept p 34–41 extranuclear DNA, cytoplasmic inheritance, maternal inheritance, mitochondria, chloroplast, Chlamydomonas
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30–42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56–66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90–99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences curriculum study 1976 Apr p 33–39 Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules, early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers 1953 Dec p 65–72 hominid, Olduvai Gorge, toolmakers, human evolution, foodsharing evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90–108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language 1952 Apr p 82–87 evolutionary diversity, chromosome, mutation, science, genetics 1900– 1950, one gene-one enzyme 1950 Sept p 55–88 evolutionary radiation, extinction, species specificity, adaptation, natural	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 'extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption 1976 Apr p 96–103 external combustion engines, Philips air engine, heat engines, Stirling engine, hot-air engine 1948 July p 52–55 automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation, ecological niche, 'Is man here to stay'' 1950 Nov p 52–55 moas, evolution, hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale, animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sept p 34–41 extranuclear DNA, cytoplasmic inheritance, material inheritance, mitochondria, chloroplast, Chlamydomonas 1965 Jan p 70–79 [1002]
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30–42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56–66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90–99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences curriculum study 1976 Apr p 33–39 Darwinism, Huxley's own account, 'apes and bishops' biology textbook controversy 1964 Oct p 56 organic molecules, early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers 1953 Dec p 65–72 hominid, Olduvai Gorge, toolmakers, human evolution, foodsharing evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90–108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language 1952 Apr p 82–87 evolutionary diversity, chromosome, mutation, science, genetics 1900–1950, one gene-one enzyme 1950 Sept p 55–58 evolutionary radiation, extinction, species specificity, adaptation, natural selection, ecological niche, 'Is man here to stay?' 1950 Nov p 52–55	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption 1976 Apr p 96–103 external combustion engines, Philips air engine, heat engines, Stirling engine, hot-air engine 1948 July p 52–55 automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation, ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 moas, evolution, hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale, animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age 1972 Mar p 60–72 extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sept p 34–41 extranuclear DNA, cytoplasmic inheritance, maternal inheritance, mitochondria, chloroplast, Chlamydomonas 1965 Jan p 70–79 [1002] extrasensory perception, see ESP extraterrestrial communication, on frequencies of H2O 1974 Jan p 52
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30–42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56–66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90–99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences curriculum study 1976 Apr p 33–39 Darwinism, Huxley's own account, 'apes and bishops' biology textbook controversy 1964 Oct p 56 organic molecules, early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers 1953 Dec p 65–72 hominid, Olduvai Gorge, toolmakers, human evolution, foodsharing evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90–108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language 1950 Sept p 82–87 evolutionary diversity, chromosome, mutation, science, genetics 1900– 1950, one gene-one enzyme 1950 Sept p 55–58 evolutionary radiation, extinction, species specificity, adaptation, natural selection, ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 evolutionary universe, cosmology, universe expansion, Olber's paradox.	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption 1976 Apr p 96–103 external combustion engines, Philips air engine, heat engines, Stirling engine, hot-air engine 1948 July p 52–55 automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation, ecological niche, 'Is man here to stay' 1950 Nov p 52–55 moas, evolution, hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale, animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age 1972 Mar p 60–72 extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sept p 34–41 extranuclear DNA, cytoplasmic inheritance, maternal inheritance, mitochondria, chloroplast, Chlamydomonas 1965 Jan p 70–79 [1002] extrasensory perception, see ESP extraterrestrial communication, on frequencies of H2O 1974 Jan p 52 extraterrestrial intelligence, interstellar communication, origins of life,
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30–42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56–66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90–99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences curriculum study 1976 Apr p 33–39 Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules, early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers 1953 Dec p 65–72 hominid, Olduvai Gorge, toolmakers, human evolution, foodsharing evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90–108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language 1952 Apr p 82–87 evolutionary diversity, chromosome, mutation, science, genetics 1900– 1950, one gene-one enzyme 1950 Sept p 55–58 evolutionary radiation, extinction, species specificity, adaptation, natural selection, ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 evolutionary universe, cosmology, universe expansion, Olber's paradox, world lines, curvature of space, red shift, galactic evolution, element formation, genesis	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption 1976 Apr p 96–103 external combustion engines, Philips air engine, heat engines, Stirling engine, hot-air engine 1948 July p 52–55 automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation, ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 moas, evolution, hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale, animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age 1972 Mar p 60–72 extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sept p 34–41 extranuclear DNA, cytoplasmic inheritance, maternal inheritance, mitochondria, chloroplast, Chlamydomonas 1965 Jan p 70–79 [1002] extrasensory perception, see ESP extraterrestrial communication, on frequencies of H2O 1974 Jan p 52 extraterrestrial intelligence, interstellar communication, origins of life, planetary systems, cyclops project 1975 May p 80–89 [347]
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30–42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56–66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90–99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences curriculum study 1976 Apr p 33–39 Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules, early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers 1953 Dec p 65–72 hominid, Olduvai Gorge, toolmakers, human evolution, foodsharing evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90–108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language 1952 Apr p 82–87 evolutionary diversity, chromosome, mutation, science, genetics 1900– 1950, one gene-one enzyme 1950 Sept p 55–58 evolutionary radiation, extinction, species specificity, adaptation, natural selection, ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 evolutionary universe, cosmology, universe expansion, Olber's paradox, world lines, curvature of space, red shift, galactic evolution, element formation, genesis	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 'extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption 1976 Apr p 96–103 external combustion engines, Philips air engine, heat engines, Stirling engine, hot-air engine 1948 July p 52–55 automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation, ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 moas, evolution, hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale, animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age 1972 Mar p 60–72 extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sept p 34–41 extranuclear DNA, cytoplasmic inheritance, maternal inheritance, mitochondria, chloroplast, Chlamydomonas 1965 Jan p 70–79 [1002] extrasensory perception, see ESP extraterrestrial intelligence, interstellar communication, origins of life, planetary systems, cyclops project 1975 May p 80–89 [347] N A S A report
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30–42 [395] species dispersion, continental drift, fossil record, plate tectonics. 1972 Nov p 56–66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90–99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences curriculum study 1976 Apr p 33–39 Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules, early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers 1953 Dec p 65–72 hominid, Olduvai Gorge, toolmakers, human evolution, foodsharing evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90–108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language 1952 Apr p 82–87 evolutionary diversity, chromosome, mutation, science, genetics 1900– 1950, one gene-one enzyme 1950 Sept p 55–58 evolutionary radiation, extinction, species specificity, adaptation, natural selection, ecological niche, 'is man here to stay?' 1950 Nov p 52–55 evolutionary universe, cosmology, universe expansion, Olber's paradox, world lines, curvature of space, red shift, galactic evolution, element formation, genesis 1954 Mar p 54–63 cosmic background radiation universe expansion, radio galaxies, 'big bane' theory	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 'extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption 1976 Apr p 96–103 external combustion engines, Philips air engine, heat engines, Stirling engine, hot-air engine 1948 July p 52–55 automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation, ecological niche, 'Is man here to stay'' 1950 Nov p 52–55 moas, evolution, hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale, animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sept p 34–41 extranuclear DNA, cytoplasmic inheritance, material inheritance, mitochondria, chloroplast, Chlamydomonas 1965 Jan p 70–79 [1002] extrasensory perception, see ESP extraterrestrial communication, on frequencies of H2O 1974 Jan p 52 extraterrestrial intelligence, interstellar communication, origins of life, planetary systems, cyclops project 1975 May p 80–89 [347] 1977 Dec p 84 extraterrestrial life, stellar evolution, main-sequence stars bigger.
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30–42 [395] species dispersion, continental drift, fossil record, plate tectonics. 1972 Nov p 56–66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90–99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences curriculum study 1976 Apr p 33–39 Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules, early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers 1953 Dec p 65–72 hominid, Olduvai Gorge, toolmakers, human evolution, foodsharing evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90–108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language 1952 Apr p 82–87 evolutionary diversity, chromosome, mutation, science, genetics 1900– 1950, one gene-one enzyme 1950 Sept p 55–58 evolutionary radiation, extinction, species specificity, adaptation, natural selection, ecological niche, 'is man here to stay?' 1950 Nov p 52–55 evolutionary universe, cosmology, universe expansion, Olber's paradox, world lines, curvature of space, red shift, galactic evolution, element formation, genesis 1954 Mar p 54–63 cosmic background radiation universe expansion, radio galaxies, 'big bane' theory	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 'extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption 1976 Apr p 96–103 external combustion engines, Philips air engine, heat engines, Stirling engine, hot-air engine 1948 July p 52–55 automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation, ecological niche, 'Is man here to stay'' 1950 Nov p 52–55 moas, evolution, hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale, animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age 1972 Mar p 60–72 extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sept p 34–41 extranuclear DNA, cytoplasmic inheritance, maternal inheritance, mitochondria, chloroplast, Chlamydomonas 1965 Jan p 70–79 [1002] extrasensory perception, see ESP extraterrestrial intelligence, interstellar communication, origins of life, planetary systems, cyclops project 1975 May p 80–89 [347] N A S A report 1977 Dec p 84 extraterrestrial life, stellar evolution, main-sequence stars, binary stars probability of extra terrestrial life calculated from astronomical
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30–42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56–66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90–99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences curriculum study 1976 Apr p 33–39 Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules, early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers 1953 Dec p 65–72 hominid, Olduvai Gorge, toolmakers, human evolution, foodsharing evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90–108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language 1952 Apr p 82–87 evolutionary diversity, chromosome, mutation, science, genetics 1900– 1950, one gene-one enzyme 1950 Sept p 55–58 evolutionary pressure, female size 1976 Sept p 68 evolutionary radiation, extinction, species specificity, adaptation, natural selection, ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 evolutionary universe, cosmology, universe expansion, Olber's paradox, world lines, curvature of space, red shift, galactic evolution, element formation, genesis 1954 Mar p 54–63 cosmic background radiation universe expansion, radio galaxies, 'big bang' theory 1974 Aug p 26–33 evavating machines, tunneling rock borers, earth-moving, surface mining mining	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 'extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption 1976 Apr p 96–103 external combustion engines, Philips air engine, heat engines, Stirling engine, hot-air engine 1948 July p 52–55 automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation, ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 moas, evolution, hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale, animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age 1972 Mar p 60–72 extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sept p 34–41 extranuclear DNA, cytoplasmic inheritance, maternal inheritance, mitochondria, chloroplast, Chlamydomonas 1965 Jan p 70–79 [1002] extrasensory perception, see ESP extraterrestrial communication, on frequencies of H2O 1974 Jan p 52 extraterrestrial intelligence, interstellar communication, origins of life, planetary systems, cyclops project 1975 May p 80–89 [347] N A S A report 1977 Dec p 84 extraterrestrial life, stellar evolution, main-sequence stars, binary stars probability of extra terrestrial life calculated from astronomical numbers
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30–42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56–66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90–99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences curriculum study 1976 Apr p 33–39 Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules, early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers 1978 Apr p 90–108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language 1952 Apr p 82–87 evolutionary diversity, chromosome, mutation, science, genetics 1900– 1950, one gene-one enzyme 1950 Sept p 55–58 evolutionary radiation, extinction, species specificity, adaptation, natural selection, ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 evolutionary universe, cosmology, universe expansion, Olber's paradox, world lines, curvature of space, red shift, galactic evolution, element formation, genesis 1954 Mar p 54–63 cosmic background radiation universe expansion, radio galaxies, 'big bang' theory 1974 Aug p 26–33 evalution, anthracene crystallography, photosynthesis electron transfer	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 'extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption 1976 Apr p 96–103 external combustion engines, Philips air engine, heat engines, Stirling engine, hot-air engine 1948 July p 52–55 automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation, ecological niche, 'Is man here to stay'' 1950 Nov p 52–55 moas, evolution, hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale, animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age 1972 Mar p 60–72 extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sept p 34–41 extranuclear DNA, cytoplasmic inheritance, maternal inheritance, mitochondria, chloroplast, Chlamydomonas 1965 Jan p 70–79 [1002] extrasensory perception, see ESP extraterrestrial communication, on frequencies of H2O 1974 Jan p 52 extraterrestrial communication, on frequencies of H2O 1975 May p 80–89 [347] N A S A report 1977 Dec p 84 extraterrestrial life, stellar evolution, main-sequence stars, binary stars probability of extra terrestrial life calculated from astronomical numbers 1960 Apr p 55–63 meteorites, chondries, pangenesis organic molecules, organic
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30–42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56–66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90–99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences curriculum study 1976 Apr p 33–39 Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules, early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers 1953 Dec p 65–72 hominid, Olduvai Gorge, toolmakers, human evolution, foodsharing evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90–108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language 1952 Apr p 82–87 evolutionary diversity, chromosome, mutation, science, genetics 1900– 1950, one gene-one enzyme 1950 Sept p 55–58 evolutionary pressure, female size 1976 Sept p 68 evolutionary radiation, extinction, species specificity, adaptation, natural selection, ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 evolutionary universe, cosmology, universe expansion, Olber's paradox, world lines, curvature of space, red shift, galactic evolution, element formation, genesis 1954 Mar p 54–63 cosmic background radiation universe expansion, radio galaxies, 'big bang' theory 1974 Aug p 26–33 evavating machines, tunneling rock borers, earth-moving, surface mining mining	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 'extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption 1976 Apr p 96–103 external combustion engines, Philips air engine, heat engines, Stirling engine, hot-air engine 1948 July p 52–55 automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation, ecological niche, 'Is man here to stay'' 1950 Nov p 52–55 moas, evolution, hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale, animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age 1972 Mar p 60–72 extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sept p 34–41 extranuclear DNA, cytoplasmic inheritance, maternal inheritance, mitochondria, chloroplast, Chlamydomonas 1965 Jan p 70–79 [1002] extrasensory perception, see ESP extraterrestrial communication, on frequencies of H2O 1974 Jan p 52 extraterrestrial indeligence, interstellar communication, origins of life, planetary systems, cyclops project 1975 May p 80–89 [347] N A S A report 1977 Dec p 84 extraterrestrial life, stellar evolution, main-sequence stars, binary stars probability of extra terrestrial life calculated from astronomical numbers 1960 Apr p 55–63 meteorites, chondrites, pangenesis organic molecules, organic molecules in carbonaceous chondries
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30–42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56–66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90–99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences curriculum study 1976 Apr p 33–39 Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules, early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers 1978 Apr p 90–108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language 1952 Apr p 82–87 evolutionary diversity, chromosome, mutation, science, genetics 1900– 1950, one gene-one enzyme 1950 Sept p 55–58 evolutionary radiation, extinction, species specificity, adaptation, natural selection, ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 evolutionary universe, cosmology, universe expansion, Olber's paradox, world lines, curvature of space, red shift, galactic evolution, element formation, genesis 1954 Mar p 54–63 cosmic background radiation universe expansion, radio galaxies, 'big bang' theory 1974 Aug p 26–33 evalution, anthracene crystallography, photosynthesis electron transfer	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 'extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption 1976 Apr p 96–103 external combustion engines, Philips air engine, heat engines, Stirling engine, hot-air engine 1948 July p 52–55 automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation, ecological niche, 'Is man here to stay'' 1950 Nov p 52–55 moas, evolution, hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale, animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age 1972 Mar p 60–72 extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sept p 34–41 extranuclear DNA, cytoplasmic inheritance, maternal inheritance, mitochondria, chloroplast, Chlamydomonas 1965 Jan p 70–79 [1002] extrasensory perception, see ESP extraterrestrial communication, on frequencies of H2O 1974 Jan p 52 extraterrestrial intelligence, interstellar communication, origins of life, planetary systems, cyclops project 1975 May p 80–89 [347] N A S A report 1977 Dec p 84 extraterrestrial life, stellar evolution, main-sequence stars, binary stars probability of extra terrestrial life calculated from astronomical numbers 1960 Apr p 55–63 meteorites, chondrites, pangenesis organic molecules, organic molecules in carbonaceous chondrites myndous Mar p 43–49 infrared astronomy, Venus atmospheric windous Mar p 43–49 infrared astronomy, Venus atmospheric windous Mar p 43–49 infrared astronomy, Venus atmospheric windous Mar Pata-
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils 1971 May p 30–42 [395] species dispersion, continental drift, fossil record, plate tectonics 1972 Nov p 56–66 [903] air pollution, melanism, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90–99 [1314] science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences curriculum study 1976 Apr p 33–39 Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules, early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers 1953 Dec p 65–72 hominid, Olduvai Gorge, toolmakers, human evolution, foodsharing evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90–108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language 1952 Apr p 82–87 evolutionary diversity, chromosome, mutation, science, genetics 1900– 1950, one gene-one enzyme 1950 Sept p 68 evolutionary pressure, female size 1976 Sept p 68 evolutionary radiation, extinction, species specificity, adaptation, natural selection, ecological niche, '1s man here to stay?' 1950 Nov p 52–55 evolutionary universe, cosmology, universe expansion, Olber's paradox, world lines, curvature of space, red shift, galactic evolution, element formation, genesis 1954 Mar p 54–63 cosmic background radiation universe expansion, radio galaxies, 'big bang' theory 1974 Aug p 26–33 evcavating machines, tunneling rock borers, earth-moving, surface mining mining 1967 Nov p 74–85 evciton, anthracene crystallography, photosynthesis electron transfer, plants, organic crystallography, photosynthesis	exponential-time problems, algorithms, computer science, Koenigsberg bridges, undecidable questions, polynomial-time problems, efficiency of algorithms 1978 Jan p 96–109 [395] extended family, Ashanti, Tallensi, social anthropology, kinship, social structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158 'extended fine structure' effect, atomic structure, crystallographic techniques, materials technology, X-ray absorption 1976 Apr p 96–103 external combustion engines, Philips air engine, heat engines, Stirling engine, hot-air engine 1948 July p 52–55 automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation, ecological niche, 'Is man here to stay'' 1950 Nov p 52–55 moas, evolution, hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale, animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age 1972 Mar p 60–72 extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sept p 34–41 extranuclear DNA, cytoplasmic inheritance, maternal inheritance, mitochondria, chloroplast, Chlamydomonas 1965 Jan p 70–79 [1002] extrasensory perception, see ESP extraterrestrial communication, on frequencies of H2O 1974 Jan p 52 extraterrestrial indeligence, interstellar communication, origins of life, planetary systems, cyclops project 1975 May p 80–89 [347] N A S A report 1977 Dec p 84 extraterrestrial life, stellar evolution, main-sequence stars, binary stars probability of extra terrestrial life calculated from astronomical numbers 1960 Apr p 55–63 meteorites, chondrites, pangenesis organic molecules, organic molecules in carbonaceous chondries

8 የ

mechanism of hormone action 1965 June p 36-4.	5 [1013] Furana al-mara I
durchar giand, pinear organ, biological clock, progesterone, mele	stoning, I alcontine settlements, stone tools
scrotount, puttal regulation of sex glands 1025 Libert 20	0 f101€) ₩
estrus, ricas, parasitism, nost-parasite relationship, hormone, rabbi	its stool broadens
adaptation, the rabbit flea and rabbit hormones	
1965 Dec n 44-53	European economy, economic development, trade deficit Economic
estuary, ecology, natural history, a teeming life province	To Europe, East-West trade, industrial reconstruction
1954 May a	64-68 Furance Occasion 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Eta Carina, Clouds of Magellan, galactic center, nebulae, globular of	
stars, Southern sky, astronomical riches of the southern sky	
1952 July p	dendrochronology 1971 Oct p 63-72 [672]
nova de novo 1952 Aug	and a structure, metanting, controlled effection
etching, chemical milling, metal cutting, operation of chemical mill	
1957 Jan p 10	
cosmic radiation, nuclear tracks, fission-track dating, ionizing	Part that the relative de Composites, matrix
radiation, applications of charged-particle tracks in solids	1967 Sept p 160-176
1969 June p	eutrophication, climate, marshland, swamp, ecology, wetlands, natural
ether drift, Fitzgerald contraction, Maxwell's equations, relativity th	1500 Oct p 117 10m [v.v]
Lorentz transformation, life and work of G F Fitzgerald	
1953 Nov p	US Great Lakes' aging 1966 Nov p 94-104 [1056]
luminiferous ether, special relativity, speed of light, interferometry	
'big bang' theory, cosmic background radiation, Hubble constant,	A man and a supplication of the supplication and area of a supplication and a supplicatio
anisotropy in 3-degree Kelvin radiation 1978 May p 64-74	
	•
ether reinstated, by Dirac 1952 Feb ethnic groups, public opinion, voters' attitudes, voting behavior,	
correlation analysis, income, social status, family, 'votes in the	drinking, eland and oryx, survival without drinking 1969 Jan p 88-95
making 1950 Nov p black power, American Negro, racial discrimination, group identif	11–13 water cycle, transpiration, runoff, agricultural system, ocean
economic power, slavery, social deprivation	y, precipitation, biosphere, photosynthesis 1970 Sept p 98-108 [1191]
	evaporite minerals, fossil record, Glomar Challenger findings, Miocene
1967 Apr p 21-27 comparative religion, gene isolation, Israel, Judaism, Samaritans,	[633] desiccation, salt, Mediterranean as desert 1972 Dec p 26-36 [904] evolution, reptile, dinosaurs, mammalian evolution, paleontology,
Holon and Nablus communities 1977 Jan p 100-108	[690] therapsids ichthyosaurs origin of mammals 1949 Mar p 40-43
ethology, stickleback, courtship display, animal behavior, sexual	sexual reproduction, heredity, origin of sexual reproduction
behavior, displacement activity 1952 Dec p 22–26	
courtship display, gulls, animal behavior, releaser stimulus,	population genetics, E coli, Drosophila, mutation sexual
displacement activity 1954 Nov p 4	7_46 recombination speciation natural selection genetic basis of
animal behavior, evolution, ritualized behavior, innate behavior,	evolution 1950 Jan p 32-41 [6]
releaser stimulus, evolution of behavioral patterns	Darwin's finches speciation, Galanagos Islands
1958 Dec p 67-78	[412] 1953 Apr p 66-72 [44]
social behavior, gulls, comparative psychology, animal behavior,	intelligent life astronomical probabilities. The thesis man is alone in
evolution, reconstructing gull family tree from behavior of specie	s space 1953 July p 10-40
1960 Dec p 118-130 [4561 E anh manually registering mutation rate explusion physised
arena behavior, bowerbirds, sexual behavior, animal behavior,	1953 Oct p 18-03
courtship display, releaser stimulus, natural history	Lysenkoism, Lamarck, acquired characteristics, genotype, phenotype.
1963 Aug p 38-46 [10	mutation, ostrich calluses, speciation religion orthodoxy,
animal behavior, speciation, gulls, evolution sexual behavior, innate	Darwinism, experiments in acquired characteristics 1953 Dec p 92-99
behavior, species discrimination, Larus, eye rings	
1967 Oct p 94-102 [10	
ethylene, fruit pectin 1954 May p 40-44 [1	
Etruscans, metallurgy, bronze 1955 Nov p 90	24 20 [X31]
Classical archeology, overview of Etruscan civilization	
1962 Feb p 82-	1956 Feb p 62-72 [108]
Ettingshausen effect, Hall effect, Nernst effect, Right-Leduc effect,	consisting mullement of us melanism contributory arran evolution
galvanomagnetism, thermomagnetism, science history, industrial technology, technological applications of 19th c discoveries	1957 May p 124-15
technology, technological applications of 15th consecutions 1961 Dec p 124-1	26 intelligence learning memory language imagery experimental
eucaryotic cell, fossils in 1,2 billion-year-old rock 1969 Aug p	49 nevehology learning in man and animals 1957 June p 140-100
Euclidean geometry, mathematics straight line, geometry, curved line	biology philosophy of science natural selection, creativity innovation
and limits of axiomatic approach 1906 Mar p 104-1	14 in biology 1958 Sept p 100-115 (**)
colordus falling-stone problem, infinitesimals, mathematical logic.	ethology, animal behavior, ritualized behavior innate behavior
the 4 of substitute point and analysis 1972 June D 70-70	releaser stimulus evolution of behavioral patterns 1958 Dec. p. 67-78 [412]
the summer application natural selection, gene initiation, initiation	
correlation theory, Galton, dermatoglypnics, me and work of Francis	
a all a plusion call Arganette, Citto Opiast Citaos Internal	1959 Mar p 49-53 [842]
mitochondria, symbiosis, prokaryone company a 48-57 [1230	of science history, geology, Lyell Charles Lyell Diography
plastids plastids analytic geometry, conic	
Euler, Fermat, Descartes, mathematics instory, analytics 1949 Jan p 40-4	5 tonizing radiation mutation radiation-induced mutation in evolution
sections, mathematics	1000 April 10 10 10 10 10 10 10 10 10 10 10 10 10
Koenigsberg bridges topology, essay by Economic 1953 July p 66-7	ethology, social behavior, gulls, comparative psychology, animal
Koenigsberg bridges	hehmor, reconstructing gull family tree from behavior of specie
Euler's problem, see Kocaigsterg ortoges Europa, Galileo, Jupiter Jovian satellites solar system Callisto 1976 May p 108-116	10(0 13a, m 110 130 (193)
Europa, Galileo, Jupiter Jovian satellites solai svilla 1976 May p 108-110 Ganymede Io	v · · · · ·
Quilyined	

to the state of th	
animal behavior, innate behavior, lovebird, sexual behavior,	electromagnetic radiation, electron-hole liquid, quantum mechanics,
interspecies differentiation of behavior 1962 Jan p 88–98	semiconductor 1976 June p 28–37
nsect behavior, bee dances, social insect, evolutionary 'dialects' of	exciton split, electron-hole pair 1969 May p 56
'language of the bees' 1962 Aug p 78-86	exclusion principle, atom, Pauli, theoretical physics, antimatter, quantum
Infra-Cambrian Ice Age, glaciation, fossil record, continental drift,	mechanics, structure of atoms and nuclei 1959 July p 74-86 [264]
paleomagnetism 1964 Aug p 28–36	executive, predicting success 1961 May p 84
intelligence, habit reversal, probability learning, intelligence compared	exercise, brown fat, altitude adaptation, Quechua Indians,
in five animals 1965 Jan p 92–100 [490]	acclimatization, deer mice, hemoglobin, metabolic rate, human
hemoglobin, myoglobin, molecular evolution, amino acids,	physiology at high altitude 1970 Feb p 52-62 [1168]
evolutionary distance measured by amino-acid substitution	exercise adaptation, breathing, heart, blood circulation, hemoglobin,
1965 May p 110-118 [1012]	human physiology 1965 May p 88–96 [1011]
bee dances, insect behavior, directional orientation, species specificity,	exocytosis, cell membrane, cell secretion, endoplasmic reticulum,
communication by sound, by dancing 1967 Apr p 96-104 [1071]	membrane fusion, fluid-mosaic model of membrane
animal behavior, fossil tracks, fossil animal tracks, burrows	1975 Oct p 28–37 [1328]
1967 Aug p 72-80 [872]	exoelectrons, Geiger counter, metal fatigue, metal-surface defects, wear
animal behavior, speciation, gulls, sexual behavior, innate behavior,	1977 Jan p 74-82 [350]
ethology, species discrimination, Larus, eye rings	exotic atoms, atomic nucleus, atomic structure, kaonic atoms, muonic
1967 Oct p 94–102 [1084]	atoms, particle accelerator, pions, quantum mechanics, high-energy
lungfish, air-breathing fishes, Devonian period, fish physiology,	physics 1972 Nov p 102–110
conquest of land-breathing organs 1968 Oct p 102-111 [1125]	antiproton 1970 Nov p 45
Darwinism, religion, Scopes trial, science teaching, creationism,	exotic molecules, comet origins, cometary structure, solar system,
antievolution laws in U S 1969 Feb p 15-21	primordial dust cloud, Comet Kohoutek 1974 Feb p 48-57
horn, antler, osteogenesis, bone, keratin, ungulates, differences between	exotoxins, bacterial infection, endotoxins, toxins, bacterial toxin, effects
horns and antlers 1969 Apr p 114–122 [1139]	of endotoxins 1964 Mar p 36-45
proteins, species specificity, computer analysis, cytochrome, amino-	experience, vision, learning, sensory deprivation, 'arrested vision', role of
acid substitution, phylogeny from amino-acid substitution	environment experience in normal development
1969 July p 86–95 [1148]	1950 July p 16–19 [408]
blood groups, genetic drift, mutation, consanguinity, gene pool,	experimental psychology, education, learning, memory, 'drill' in learning
population genetics, Parma Valley, Italy 1969 Aug p 30-37	1958 Aug p 68–72 [422]
gene pool, mutation, genetic load, electrophoresis, population genetics,	expert witnesses, criminal law, insanity defense, M'Naghten rule,
heterozygosity 1970 Mar p 98–107 [1172]	Durham rule, psychiatrists as witnesses 1974 June p 18–23
DNA repeat segments, genome size, sDNA, DNA-RNA hybridization	exploding wire, meteorites, shock waves, streak photography, generation
1970 Apr p 24–31 [1173]	of shock waves by exploding wire 1962 May p 102–112
biosphere, Earth, photosynthesis, environment, atmosphere-	explosion-suppression, by counter-explosion 1952 Feb p 36
hydrosphere cycles, introduction to single-topic issue on biosphere	explosions, shock waves, materials technology, solids, phase transitions
1970 Sept p 44-53 [1188]	1969 May p 82–91
albatross, animal behavior, bird flight, sexual behavior, soaring, natural	explosive compression, high-pressure technology, magnetism, ultrastrong
history 1970 Nov p 84–93 [1204]	magnetic fields, implosion, flux compression 1965 July p 64-73
bacteria, blue-green algae, fossil cells, Gunflint cherts, origins of life,	exponential-time problems, algorithms, computer science, Koenigsberg
Precambrian rocks, prokaryotic cells, oldest fossils	bridges, undecidable questions, polynomial-time problems,
1971 May p 30-42 [395]	efficiency of algorithms 1978 Jan p 96–109 [395]
species dispersion, continental drift, fossil record, plate tectonics	extended family, Ashanti, Tallensi, social anthropology, kinship, social
1972 Nov p 56–66 [903]	structure, social psychology, primitive Tallensian and Ashantian kinship 1959 June p 146–158
air pollution, melanism, moths, gene mutation, population genetics,	'extended fine structure' effect, atomic structure, crystallographic
predation, evolution observed again 1975 Jan p 90–99 [1314]	techniques, materials technology, X-ray absorption
science teaching, religion, curriculum reform, Darwinism, creationism, Bible, high school, Man, a Course of Study, biological sciences	1976 Apr p 96–103
curriculum study 1976 Apr p 33–39	external combustion engines, Philips air engine, heat engines, Stirling
Darwinsm, Huxley's own account 'anes and hishons'	
Darwinism, Huxley's own account, 'apes and bishops'	engine, hot-air engine 1948 July p 52-55
Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52	engine, hot-air engine 1948 July p 52-55 automobile engines, Stirling engine, engine efficiency
Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56	engine, hot-air engine 1948 July p 52-55 automobile engines, Stirling engine, engine efficiency 1973 Aug p 80-87
Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules early life on Earth 1965 June p 58	engine, hot-air engine 1948 July p 52-55 automobile engines, Stirling engine, engine efficiency 1973 Aug p 80-87 extinction, species specificity, adaptation, natural selection, evolutionary
Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules early life on Earth 1965 June p 58 protein clock 1976 Nov p 70	engine, hot-air engine 1948 July p 52-55 automobile engines. Stirling engine, engine efficiency 1973 Aug p 80-87 extinction, species specificity, adaptation, natural selection, evolutionary radiation ecological niche, 'Is man here to stay?' 1950 Nov p 52-55
Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe	engine, hot-air engine 1948 July p 52-55 automobile engines. Stirling engine, engine efficiency 1973 Aug p 80-87 extinction, species specificity, adaptation, natural selection, evolutionary radiation ecological niche, 'Is man here to stay?' 1950 Nov p 52-55
Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 1964 Oct p 56 organic molecules early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers 1953 Dec p 65–72	engine, hot-air engine 1948 July p 52-55 automobile engines, Stirling engine, engine efficiency 1973 Aug p 80-87 extinction, species specificity, adaptation, natural selection, evolutionary radiation ecological niche, 'Is man here to stay?' 1950 Nov p 52-55 moas, evolution hunting, New Zealand flightless birds 1954 Feb p 84-90
Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers 1953 Dec p 65–72 hominid, Olduvai Gorge, toolmakers, human evolution foodsharing	engine, hot-air engine automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 moas, evolution hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale animal migration 1955 Jan p 62–66
Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers 1953 Dec p 65–72 hominid, Olduvai Gorge, toolmakers, human evolution foodsharing evidence for protohuman behavior in two-million-year-old sites	engine, hot-air engine automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 moas, evolution hunting, New Zealand flightless birds gray whale, whale animal migration extinction mechanism, bears, cave bear, Ice Age 1972 Mar p 60–72
Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers 1953 Dec p 65–72 hominid, Olduvai Gorge, toolmakers, human evolution foodsharing evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90–108 [706]	engine, hot-air engine automobile engines. Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 moas, evolution hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age 1972 Mar p 60–72 extragalactic radio waves, radio astronomy, radio map of Galaxy, solar
Darwinism, Huxley's own account, 'apes and bishops' biology textbook controversy organic molecules early life on Earth protein clock see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers evolution of behavior, human evolution in two-million-year-old sites 1978 Apr p 90-108 [706] evolution of language, linguistics, information theory, a theory of natural	engine, hot-air engine automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 moas, evolution hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale animal migration 1955 Jan p 62–66
Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers 1953 Dec p 65–72 hominid, Olduvai Gorge, toolmakers, human evolution foodsharing evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90–108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language	engine, hot-air engine automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 moas, evolution hunting, New Zealand flightless birds gray whale, whale animal migration gray whale, whale animal migration extinction mechanism, bears, cave bear, Ice Age extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sent p 34–41
Darwinism, Huxley's own account, 'apes and bishops' biology textbook controversy organic molecules early life on Earth protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers hominid, Olduvai Gorge, toolmakers, human evolution foodsharing evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90–108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language 1952 Apr p 82–87 evolutionary diversity, chromosome, mutation, science, genetics 1900-	engine, hot-air engine automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation ecological niche, 'Is man here to stay'? 1950 Nov p 52–55 moas, evolution hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age 1972 Mar p 60–72 extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sept p 34–41 extranuclear DNA, cytoplasmic inheritance, maternal inheritance
Darwinism, Huxley's own account, 'apes and bishops' biology textbook controversy organic molecules early life on Earth protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers hominid, Olduvai Gorge, toolmakers, human evolution foodsharing evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90–108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language 1952 Apr p 82–87 evolutionary diversity, chromosome, mutation, science, genetics 1900- 1950, one gene-one enzyme 1950 Sept p 55–58	engine, hot-air engine automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation ecological niche, 'Is man here to stay'? 1950 Nov p 52–55 moas, evolution hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age 1972 Mar p 60–72 extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sept p 34–41 extranuclear DNA, cytoplasmic inheritance, maternal inheritance, mitochondna, chloroplast, Chlamydomonas
Darwinism, Huxley's own account, 'apes and bishops' biology textbook controversy organic molecules early life on Earth protein clock see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90-108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language 1952 Apr p 82-87 evolutionary diversity, chromosome, mutation, science, genetics 1900- 1950, one gene-one enzy me 1950 Sept p 55-58 evolutionary pressure, female size 1976 Sept p 68	engine, hot-air engine automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 moas, evolution hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age 1972 Mar p 60–72 extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sept p 34–41 extranuclear DNA, cytoplasmic inheritance, maternal inheritance, mitochondria, chloroplast, Chlamydomonas
Darwinism, Huxley's own account, 'apes and bishops' biology textbook controversy organic molecules early life on Earth protein clock see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90–108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language 1952 Apr p 82–87 evolutionary diversity, chromosome, mutation, science, genetics 1900- 1950, one gene-one enzyme 1950 Sept p 55–58 evolutionary pressure, female size 1976 Sept p 68 evolutionary radiation, extinction, species specificity, adaptation, natural	engine, hot-air engine automobile engines, Stirling engine, engine efficiency 1973 Aug p 80-87 extinction, species specificity, adaptation, natural selection, evolutionary radiation ecological niche, 'Is man here to stay?' 1950 Nov p 52-55 moas, evolution hunting, New Zealand flightless birds 1954 Feb p 84-90 gray whale, whale animal migration 1955 Jan p 62-66 extinction mechanism, bears, cave bear, Ice Age 1972 Mar p 60-72 extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sept p 34-41 extranuclear DNA, cytoplasmic inheritance, maternal inheritance, mutochondria, chloroplast, Chlamydomonas 1965 Jan p 70-79 [1002]
Darwinism, Huxley's own account, 'apes and bishops' biology textbook controversy organic molecules early life on Earth protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90–108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language 1952 Apr p 82–87 evolutionary diversity, chromosome, mutation, science, genetics 1900- 1950, one gene-one enzyme 1950 Sept p 55–58 evolutionary radiation, extinction, species specificity, adaptation, natural selection, ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 evolutionary universe, cosmology, universe expansion, Olber's paradox.	engine, hot-air engine automobile engines. Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 moas, evolution hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age 1972 Mar p 60–72 extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sept p 34–41 extranuclear DNA, cytoplasmic inheritance, maternal inheritance, mitochondria, chloroplast, Chlamy domonas 1965 Jan p 70–79 [1002] extrasensory perception, see ESP extraterrestrial communication, on frequencies of H2O 1974 Jan p 52
Darwinism, Huxley's own account, 'apes and bishops' biology textbook controversy organic molecules early life on Earth protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90–108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language 1952 Apr p 82–87 evolutionary diversity, chromosome, mutation, science, genetics 1900- 1950, one gene-one enzyme 1950 Sept p 55–58 evolutionary radiation, extinction, species specificity, adaptation, natural selection, ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 evolutionary universe, cosmology, universe expansion, Olber's paradox.	engine, hot-air engine automobile engines. Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 moas, evolution hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age 1972 Mar p 60–72 extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sept p 34–41 extranuclear DNA, cytoplasmic inheritance, maternal inheritance, mitochondria, chloroplast, Chlamydomonas 1965 Jan p 70–79 [1002] extrasensory perception, see ESP extraterrestrial communication, on frequencies of H2O 1974 Jan p 52 extraterrestrial intelligence, interstellar communication, origins of life.
Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers 1953 Dec p 65–72 hominid, Olduvai Gorge, toolmakers, human evolution foodsharing evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90–108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language 1952 Apr p 82–87 evolutionary diversity, chromosome, mutation, science, genetics 1900–1950, one gene-one enzyme 1950 Sept p 55–58 evolutionary pressure, female size 1976 Sept p 68 evolutionary radiation, extinction, species specificity, adaptation, natural selection, ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 evolutionary universe, cosmology, universe expansion, Olber's paradox, world lines curvature of space, red shift, galactic evolution element formation genesis	engine, hot-air engine automobile engines. Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 moas, evolution hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age 1972 Mar p 60–72 extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sept p 34–41 extranuclear DNA, cytoplasmic inheritance, maternal inheritance, mitochondria, chloroplast, Chlamydomonas 1965 Jan p 70–79 [1002] extrasensory perception, see ESP extraterrestrial communication, on frequencies of H2O 1974 Jan p 52 extraterrestrial intelligence, interstellar communication, origins of life, planetary systems, cyclops project 1975 May p 80–89 [347]
Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers 1953 Dec p 65–72 hominid, Olduvai Gorge, toolmakers, human evolution foodsharing evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90–108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language 1952 Apr p 82–87 evolutionary diversity, chromosome, mutation, science, genetics 1900–1950, one gene-one enzyme 1950 Sept p 55–58 evolutionary pressure, female size 1976 Sept p 68 evolutionary radiation, extinction, species specificity, adaptation, natural selection, ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 evolutionary universe, cosmology, universe expansion, Olber's paradox, world lines curvature of space, red shift, galactic evolution element formation genesis	engine, hot-air engine automobile engines. Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 moas, evolution hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age 1972 Mar p 60–72 extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sept p 34–41 extranuclear DNA, cytoplasmic inheritance, maternal inheritance, mitochondria, chloroplast, Chlamydomonas 1965 Jan p 70–79 [1002] extrasensory perception, see ESP extraterrestrial communication, on frequencies of H2O 1974 Jan p 52 extraterrestrial intelligence, interstellar communication, origins of life, planetary systems, cyclops project 1975 May p 80–89 [347] N A S A report
Darwinism, Huxley's own account, 'apes and bishops' biology textbook controversy organic molecules early life on Earth protein clock see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers hominid, Olduvai Gorge, toolmakers, human evolution foodsharing evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90–108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language 1952 Apr p 82–87 evolutionary diversity, chromosome, mutation, science, genetics 1900- 1950, one gene-one enzyme 1950 Sept p 55–58 evolutionary pressure, female size evolutionary radiation, extinction, species specificity, adaptation, natural selection, ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 evolutionary universe, cosmology, universe expansion, Olber's paradox, world lines curvature of space, red shift, galactic evolution element formation genesis 1954 Mar p 54–63 cosmic background radiation, universe expansion radio galaxies 'big bane' theory	engine, hot-air engine automobile engines. Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 moas, evolution hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age 1972 Mar p 60–72 extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sept p 34–41 extranuclear DNA, cytoplasmic inheritance, maternal inheritance, mitochondria, chloroplast, Chlamydomonas 1965 Jan p 70–79 [1002] extrasensory perception, see ESP extraterrestrial communication, on frequencies of H2O 1974 Jan p 52 extraterrestrial intelligence, interstellar communication, origins of life, planetary systems, cyclops project 1975 May p 80–89 [347] N A S A report 1977 Dec p 84 extraterrestrial life, stellar evolution, manusequence stars beneficial.
Darwinism, Huxley's own account, 'apes and bishops' biology textbook controversy organic molecules early life on Earth protein clock see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers location of language, linguistics, information theory, a theory of natural selection in language evolutionary diversity, chromosome, mutation, science, genetics 1900- 1950, one gene-one enzyme locationary pressure, female size evolutionary radiation, extinction, species specificity, adaptation, natural selection, ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 evolutionary universe, cosmology, universe expansion, Olber's paradox, world lines curvature of space, red shift, galactic evolution element formation genesis location in location, universe expansion radio galaxies 'big bang' theory location, each of the distribution, universe, earth-moving surface location in location, universe, earth-moving surface	engine, hot-air engine automobile engines. Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 moas, evolution hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age 1972 Mar p 60–72 extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sept p 34–41 extranuclear DNA, cytoplasmic inheritance, maternal inheritance, mitochondria, chloroplast, Chlamydomonas 1965 Jan p 70–79 [1002] extrasensory perception, see ESP extraterrestrial communication, on frequencies of H2O 1974 Jan p 52 extraterrestrial intelligence, interstellar communication, origins of life, planetary systems, cyclops project 1975 May p 80–89 [347] N A S A report 1977 Dec p 84 extraterrestrial life, stellar evolution, main-sequence stars binary stars probability of extra terrestrial life calculated from astronomical numbers
Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers 1953 Dec p 65–72 hominid, Olduvai Gorge, toolmakers, human evolution foodsharing evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90–108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language 1952 Apr p 82–87 evolutionary diversity, chromosome, mutation, science, genetics 1900- 1950, one gene-one enzyme 1950 Sept p 55–58 evolutionary pressure, female size 1976 Sept p 68 evolutionary radiation, extinction, species specificity, adaptation, natural selection, ecological niche, 'is man here to stay?' 1950 Nov p 52–55 evolutionary universe, cosmology, universe expansion, Olber's paradox, world lines curvature of space, red shift, galactic evolution element formation genesis 1954 Mar p 54–63 cosmic background radiation, universe expansion radio galaxies 'big bang' theory 1974 Aug p 26–33 eveavating machines, tunneling, rock borers, earth-moving	engine, hot-air engine automobile engines, Stirling engine, engine efficiency 1973 Aug p 80–87 evtinction, species specificity, adaptation, natural selection, evolutionary radiation ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 moas, evolution hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale animal migration 1955 Jan p 62–66 evtinction mechanism, bears, cave bear, Ice Age 1972 Mar p 60–72 evtragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sept p 34–41 evtranuclear DNA, cytoplasmic inheritance, maternal inheritance, mitochondria, chloroplast, Chlamy domonas 1965 Jan p 70–79 [1002] evtrasensory perception, see ESP evtraterrestrial communication, on frequencies of H2O 1974 Jan p 52 evtraterrestrial intelligence, interstellar communication, origins of life, planetary systems, cyclops project 1975 May p 80–89 [347] N A S A report 1977 Dec p 84 evtraterrestrial life, stellar evolution, main-sequence stars binary stars probability of extra terrestrial life calculated from astronomical numbers 1960 Apr p 55–63 meteorites chondrites pangenesis organic molecules contents.
Darwinism, Huxley's own account, 'apes and bishops' biology textbook controversy forganic molecules early life on Earth protein clock protein clock see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90-108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language evolutionary diversity, chromosome, mutation, science, genetics 1900- 1950, one gene-one enzyme 1950 Sept p 55-58 evolutionary pressure, female size 1976 Sept p 68 evolutionary radiation, extinction, species specificity, adaptation, natural selection, ecological niche, 'Is man here to stay?' 1950 Nov p 52-55 evolutionary universe, cosmology, universe expansion, Olber's paradox, world lines curvature of space, red shift, galactic evolution element formation genesis cosmic background radiation, universe expansion radio galaxies 'big bang' theory evalung machines, tunneling, rock borers, earth-moving surface mining, mining eviton, anthracene crystallography, photosynthesis electron transfer	engine, hot-air engine automobile engines. Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 moas, evolution hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age 1972 Mar p 62–66 extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sept p 34–41 extranuclear DNA, cytoplasmic inheritance, maternal inheritance, mutochondria, chloroplast, Chlamy domonas 1965 Jan p 70–79 [1002] extrasensory perception, see ESP extraterrestrial communication, on frequencies of H2O 1974 Jan p 52 extraterrestrial intelligence, interstellar communication, origins of life, planetary systems, cyclops project 1975 May p 80–89 [347] N A S A report 1977 Dec p 84 extraterrestrial life, stellar evolution, main-sequence stars binary stars probability of extra terrestrial life calculated from astronomical numbers 1960 Apr p 55–63 meteorites chondrites pangenesis organic molecules organic mo
Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers 1953 Dec p 65–72 hominid, Olduvai Gorge, toolmakers, human evolution foodsharing evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90–108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language 1952 Apr p 82–87 evolutionary diversity, chromosome, mutation, science, genetics 1900- 1950, one gene-one enzyme 1950 Sept p 55–58 evolutionary pressure, female size 1976 Sept p 68 evolutionary radiation, extinction, species specificity, adaptation, natural selection, ecological niche, 'is man here to stay?' 1950 Nov p 52–55 evolutionary universe, cosmology, universe expansion, Olber's paradox, world lines curvature of space, red shift, galactic evolution element formation genesis 1954 Mar p 54–63 cosmic background radiation, universe expansion radio galaxies 'big bang' theory 1974 Aug p 26–33 evcavating machines, tunneling, rock borers, earth-moving surface mining, mining 1967 Nov p 74–85 evciton, anthracene crystallography, photosynthesis, electron transfer, plants, organic crystalls, conjugated aromatic hydrocarbons	engine, hot-air engine automobile engines. Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 moas, evolution hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age 1972 Mar p 60–72 extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sept p 34–41 extranuclear DNA, cytoplasmic inheritance, maternal inheritance, mitochondria, chloroplast, Chlamydomonas 1965 Jan p 70–79 [1002] extrasensory perception, see ESP extraterrestrial communication, on frequencies of H2O 1974 Jan p 52 extraterrestrial intelligence, interstellar communication, origins of life, planetary systems, cyclops project 1975 May p 80–89 [347] N A S A report 1977 Dec p 84 extraterrestrial life, stellar evolution, main-sequence stars binary stars probability of extra terrestrial life calculated from astronomical numbers 1960 Apr p 55–63 meteorites chondrites pangenesis organic molecules organic molecules in carbonaceous chondrites 1963 Mar p 43–49 infrared astronomy, Venus, atmospheric windows. Mars. Mars.
Darwinism, Huxley's own account, 'apes and bishops' biology textbook controversy forganic molecules early life on Earth protein clock protein clock see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90-108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language evolutionary diversity, chromosome, mutation, science, genetics 1900- 1950, one gene-one enzyme 1950 Sept p 55-58 evolutionary pressure, female size 1976 Sept p 68 evolutionary radiation, extinction, species specificity, adaptation, natural selection, ecological niche, 'Is man here to stay?' 1950 Nov p 52-55 evolutionary universe, cosmology, universe expansion, Olber's paradox, world lines curvature of space, red shift, galactic evolution element formation genesis cosmic background radiation, universe expansion radio galaxies 'big bang' theory evalung machines, tunneling, rock borers, earth-moving surface mining, mining eviton, anthracene crystallography, photosynthesis electron transfer	engine, hot-air engine automobile engines. Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 moas, evolution hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age 1972 Mar p 60–72 extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sept p 34–41 extranuclear DNA, cytoplasmic inheritance, maternal inheritance, mitochondria, chloroplast, Chlamydomonas 1965 Jan p 70–79 [1002] extrasensory perception, see ESP extraterrestrial communication, on frequencies of H2O 1974 Jan p 52 extraterrestrial intelligence, interstellar communication, origins of life, planetary systems, cyclops project 1975 May p 80–89 [347] N A S A report 1977 Dec p 84 extraterrestrial life, stellar evolution, main-sequence stars binary stars probability of extra terrestrial life calculated from astronomical numbers 1960 Apr p 55–63 meteorites chondrites pangenesis organic molecules organic molecules in carbonaceous chondrites 1963 Mar p 43–49 infrared astronomy, Venus, atmospheric windows. Mars. Mars.
Darwinism, Huxley's own account, 'apes and bishops' 1954 Mar p 52 biology textbook controversy 1964 Oct p 56 organic molecules early life on Earth 1965 June p 58 protein clock 1976 Nov p 70 see also galactic evolution, human evolution and the like, evolutionary universe evolution of behavior, human evolution, toolmakers 1953 Dec p 65–72 hominid, Olduvai Gorge, toolmakers, human evolution foodsharing evidence for protohuman behavior in two-million-year-old sites 1978 Apr p 90–108 [706] evolution of language, linguistics, information theory, a theory of natural selection in language 1952 Apr p 82–87 evolutionary diversity, chromosome, mutation, science, genetics 1900- 1950, one gene-one enzyme 1950 Sept p 55–58 evolutionary pressure, female size 1976 Sept p 68 evolutionary radiation, extinction, species specificity, adaptation, natural selection, ecological niche, 'is man here to stay?' 1950 Nov p 52–55 evolutionary universe, cosmology, universe expansion, Olber's paradox, world lines curvature of space, red shift, galactic evolution element formation genesis 1954 Mar p 54–63 cosmic background radiation, universe expansion radio galaxies 'big bang' theory 1974 Aug p 26–33 evcavating machines, tunneling, rock borers, earth-moving surface mining, mining 1967 Nov p 74–85 evciton, anthracene crystallography, photosynthesis, electron transfer, plants, organic crystalls, conjugated aromatic hydrocarbons	engine, hot-air engine automobile engines. Stirling engine, engine efficiency 1973 Aug p 80–87 extinction, species specificity, adaptation, natural selection, evolutionary radiation ecological niche, 'Is man here to stay?' 1950 Nov p 52–55 moas, evolution hunting, New Zealand flightless birds 1954 Feb p 84–90 gray whale, whale animal migration 1955 Jan p 62–66 extinction mechanism, bears, cave bear, Ice Age 1972 Mar p 62–66 extragalactic radio waves, radio astronomy, radio map of Galaxy, solar radio output, status and expectations of the new astronomy 1949 Sept p 34–41 extranuclear DNA, cytoplasmic inheritance, maternal inheritance, mutochondria, chloroplast, Chlamy domonas 1965 Jan p 70–79 [1002] extrasensory perception, see ESP extraterrestrial communication, on frequencies of H2O 1974 Jan p 52 extraterrestrial intelligence, interstellar communication, origins of life, planetary systems, cyclops project 1975 May p 80–89 [347] N A S A report 1977 Dec p 84 extraterrestrial life, stellar evolution, main-sequence stars binary stars probability of extra terrestrial life calculated from astronomical numbers 1960 Apr p 55–63 meteorites chondrites pangenesis organic molecules organic mo

1977 (NOV 5 57 6) 12	fallout, atomic bomb test, ionizing radiation, isotopes,	environmental
views Earth as zoo or Petri dish? 1977 Nov p 52-61 [3	221 DOMUMON, Disclear medicine circulation of radions	otopes
extra ascular pressure, comparative physiology, blood pressure,	JI	1959 Sept n 84-93
oreatning, giralic respiration 1974 Nov. p. 96, 105, 112	atomic bomb test, radiation damage, ionizing radiat	ion, leukemia
eye, fod cens, cone cens, retina, iris, optogram, rhodonsin, camera	tendential de la contraction de la contraction de	
anatomy and physiology of the eye, camera as metaphor	environmental pollution tonizing radiation atomic	59 Sept p 117-137
Sharrangton Charles Saux Ol		s of radiation to
Sherrington, Charles Scott Sherrington on the eye 1952 May p 30-vision, retina, 'floaters', nature and origin of 'floaters'	society 1959 Sept	p 219-232 [1214]
	DDT residues, insecticide, ecological cycles, food ch	ain, ecological
1962 June p 119-1 vision, retinal pigments, color perception, cone cells, trichromaticity	redistribution of pollutants 1967 M	ar p 24-31 [1066]
implies three cone pigments 1962 Nov p 120-132 [13	civil defense, arms race, limited nuclear warfare, tech	nology
visual cortex, retina, optic nerve, vision, organization of sight into	F	ear war 976 Nov p 27-37
Vision 1963 Nov p. 54–62 [16	RI photographic film forgad	1949 Oct p 26
numan anatomy, sensory perception, neuropsychology, ear. Descartes	alarm and a death from H-bomb test	1954 Nov p 48
17th c approach to human perception, mechanistic hypothesis	protest from Churchill	1955 Jan p 42
1964 May p 108-116 [18 emotion, pupil size, attitude, attention, effect of attitude on pupil size		1955 Mar p 50
1965 Apr p 46–54 [49]	'one chest X-ray'	1955 Apr p 46
binocular vision, depth perception, neurophysiology, optic chiasm,	l Pauling's warnings NASA radiation study	1955 May p 52 1955 June p 47
stereopsis, visual cortex 1972 Aug p 84-95 1125	environmental pollution, atomic radiation	1956 July p 46
motion perception, visual perception 1975 June p. 76–88 [564	alarm in Britain	1956 Sept p 110
communication, nonverbal communication, pupil size, effect of pupil	ionizing radiation, radiation effects on human tissue c	
size on attitude 1975 Nov p 110–119 [567		1957 Jan p 64
motion-perception system, moving-target perception, neurophysiology visual perception 1977 Jan p 60-73 [575		1957 Aug p 36
visual perception 1977 Jan p 60-73 [575 compound eye, insect eye, ommatidia 1977 July p 108-120 [1364	atomic bomb test, irradiation effect on human populat	1958 Sept p 84
eye disease, trachoma, virus disease, vaccination, epidemiology,	atomic bomb test, carbon 14, C14 fallout	1959 Jan p 62
immunization 1964 Jan p 79–86	, ,	1959 June p 76
eye-hand coordination, vision, infant, learning, human eye	concentration in milk	1959 Aug p 62
1950 Feb p 20-22 [401]	atomic bomb test, US Federal Radiation Council reco	mmendations
child development, infant perceptions, object concept, perceptual	and the D.C. Dakke He to Comme	1959 Oct p 80 1960 July p 79
development 1971 Oct p 30-38 [539] eye-head coordination, coordination of movement, sensory feedback,	monitored by U.S. Public Health Service strontium 90 radiation in decline	1960 Oct p 87
visual targeting 1974 Oct p 100–106 [1305]	atomic bomb test, assessment of cumulative fallout	1962 July p 71
eye lens, cataract, retina, etiology, course and treatment of cataract	1962 testing doubled the rate	1963 Aug p 48
1962 Mar p 106-114	strontium 90, iodine 131, carbon 14	1963 Nov p 64
aging, cataract, human eye, vision 1975 Dec p 70-81	fallout shelters, civil defense, arms race, social psychology,	COUNTERFORCE
		rn 46-311020
eye movement, feedback, visual tracking, visual scanning, human eye,	strategy, social impact of fallout shelters 1962 Maj	ויכטן וכ-40 קי
control mechanisms of the eye 1964 July p 24-33	arms race, atomic test ban, national security, atomic bot	nb test, missile p 27-35 [319]
	arms race, atomic test ban, national security, atomic bor policy, military technology 1964 Oct 'false bottom', marine biology, plankton, sonar, shrimp, he	nb test, missile p 27-35 [319] teropod deep
control mechanisms of the eye 1964 July p 24-33 vision, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera 1968 Aug p 88-95 [516] pattern recognition, scan-path recordings, serial-recognition	arms race, atomic test ban, national security, atomic bor policy, military technology 1964 Oct 'false bottom', marine biology, plankton, sonar, shrimp, he	nb test, missile p 27-35 [319] teropod deep Aug p 24-28
control mechanisms of the eye 1964 July p 24-33 vision, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera 1968 Aug p 88-95 [516] pattern recognition, scan-path recordings, serial-recognition hypothesis, visual perception 1971 June p 34-43 [537]	arms race, atomic test ban, national security, atomic bor policy, military technology 1964 Oct 'false bottom', marine biology, plankton, sonar, shrimp, he sea scattering layer, deep sea 'layer of life' 1951 sonar, echo sounding ocean floor, plankton, deep sea sea	nb test, missile p 27-35 [319] teropod deep Aug p 24-28 attering layer.
control mechanisms of the eye 1964 July p 24–33 vision, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera 1968 Aug p 88–95 [516] pattern recognition, scan-path recordings, serial-recognition hypothesis, visual perception 1971 June p 34–43 [537] visual perception, bilingualism, dyslexia, grammatical relations,	arms race, atomic test ban, national security, atomic bor policy, military technology 1964 Oct 'false bottom', marine biology, plankton, sonar, shrimp, he sea scattering layer, deep sea 'layer of life' 1951 sonar, echo sounding ocean floor, plankton, deep sea see photic zone	nb test, missile p 27-35 [319] teropod deep Aug p 24-28 attering layer, lyluly p 44-50 Chelifer
control mechanisms of the eye 1964 July p 24–33 vision, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera 1968 Aug p 88–95 [516] pattern recognition, scan-path recordings, serial-recognition hypothesis, visual perception 1971 June p 34-43 [537] visual perception, bilingualism, dyslexia, grammatical relations, language, reading, perception of words 1972 July p 84-91 [545]	arms race, atomic test ban, national security, atomic bor policy, military technology 1964 Oct 'false bottom', marine biology, plankton, sonar, shrimp, he sea scattering layer, deep sea 'layer of life' 1951 sonar, echo sounding ocean floor, plankton, deep sea sea photic zone 1966 false scorpion, Arachnida, natural history, animal behavior captoides 1966 Mar p	7 p 46-31 [1637] nb test, missile p 27-35 [319] teropod deep Aug p 24-28 attering layer, 2 July p 44-50 Chehfer 95-100 [1039]
control mechanisms of the eye 1964 July p 24–33 vision, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera 1968 Aug p 88–95 [516] pattern recognition, scan-path recordings, serial-recognition hypothesis, visual perception 1971 June p 34–43 [537] visual perception, bilingualism, dyslexia, grammatical relations, language, reading, perception of words 1972 July p 84–91 [545] brain circuitry, neurophysiology, pons, visual cortex, visual processing visual cells in pons 1976 Nov p 90–98	arms race, atomic test ban, national security, atomic bor policy, military technology 1964 Oct 'false bottom', marine biology, plankton, sonar, shrimp, he sea scattering layer, deep sea 'layer of life' 1951 sonar, echo sounding ocean floor, plankton, deep sea sc photic zone 1966 false scorpion, Arachnida, natural history, animal behavior cantoides 1966 Mar p	y p 46–31 [157] nb test, missile p 27–35 [319] teropod deep Aug p 24–28 attering layer. ! July p 44–50 Chehfer 95–100 [1039] rrelation
control mechanisms of the eye 1964 July p 24-33 vision, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera 1968 Aug p 88-95 [516] pattern recognition, scan-path recordings, serial-recognition hypothesis, visual perception 1971 June p 34-43 [537] visual perception, bilingualism, dyslexia, grammatical relations, language, reading, perception of words 1972 July p 84-91 [545] brain circuitry, neurophysiology, pons, visual cortex, visual processing visual cells in pons 1976 Nov p 90-98 eye-witness testimony, crime, perception, memory, jury trial	arms race, atomic test ban, national security, atomic bor policy, military technology 1964 Oct 'false bottom', marine biology, plankton, sonar, shrimp, he sea scattering layer, deep sea 'layer of life' 1951 sonar, echo sounding ocean floor, plankton, deep sea sc photic zone 1966 false scorpion, Arachnida, natural history, animal behavior, canroides 1966 Mar p family, public opinion, voters' attitudes voting behavior, co	y p 46–31 [1637] nb test, missife p 27–35 [319] teropod deep Aug p 24–28 attering layer, 2 July p 44–50 Chehifer 95–100 [1039] rrelation the making
control mechanisms of the eye 1964 July p 24–33 vision, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera 1968 Aug p 88–95 [516] pattern recognition, scan-path recordings, serial-recognition hypothesis, visual perception 1971 June p 34–43 [537] visual perception, bilingualism, dyslexia, grammatical relations, language, reading, perception of words 1972 July p 84–91 [545] brain circuitry, neurophysiology, pons, visual cortex, visual processing visual cells in pons 1976 Nov p 90–98	arms race, atomic test ban, national security, atomic bor policy, military technology 1964 Oct 'false bottom', marine biology, plankton, sonar, shrimp, he sea scattering layer, deep sea 'layer of life' 1951 sonar, echo sounding ocean floor, plankton, deep sea scaphotic zone 1966 se scorpion, Arachnida, natural history, animal behavior canroides 1966 Mar p family, public opinion, voters' attitudes voting behavior, coanalysis, ethnic groups, income social status, 'votes in 1950 constant librers, mental health, schizophrenia endemio	y p 46–31 [037] hb test, missile p 27–35 [319] teropod deep Aug p 24–28 attering layer, 2 July p 44–50 Chelifer 95–160 [1039] rrelation the making' Nov p 11–13 logy.
control mechanisms of the eye 1964 July p 24-33 vision, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera 1968 Aug p 88-95 [516] pattern recognition, scan-path recordings, serial-recognition hypothesis, visual perception 1971 June p 34-43 [537] visual perception, bilingualism, dyslexia, grammatical relations, language, reading, perception of words 1972 July p 84-91 [545] brain circuitry, neurophysiology, pons, visual cortex, visual processing visual cells in pons 1976 Nov p 90-98 eye-witness testimony, crime, perception, memory, jury trial	arms race, atomic test ban, national security, atomic bor policy, military technology 1964 Oct 'false bottom', marine biology, plankton, sonar, shrimp, he sea scattering layer, deep sea 'layer of life' 1951 sonar, echo sounding ocean floor, plankton, deep sea scaphotic zone 1966 se scorpion, Arachnida, natural history, animal behavior, canroides 1966 Mar p family, public opinion, voters' attitudes voting behavior, coanalysis, ethnic groups, income social status, 'votes in 1950 emotional illness, mental health schizophrenia, epidemio psychosis, income status 1954 Mar et 1964 Mar et 1964 Mar et 1964 mar et 1964 Mar et 1965 e	y p 40-31 [1037] hb test, missile p 27-35 [319] teropod deep Aug p 24-28 attering layer, 2 July p 44-50 Chelifer 95-160 [1039] rrelation the making' Nov p 11-13 logy, p 38-42 [441]
control mechanisms of the eye 1964 July p 24-33 vision, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera 1968 Aug p 88-95 [516] pattern recognition, scan-path recordings, serial-recognition hypothesis, visual perception 1971 June p 34-43 [537] visual perception, blingualism, dyslexia, grammatical relations, language, reading, perception of words 1972 July p 84-91 [545] brain circuitry, neurophysiology, pons, visual cortex, visual processing visual cells in pons 1976 Nov p 90-98 eye-witness testimony, crime, perception, memory, jury trial 1974 Dec p 23-31 [562]	arms race, atomic test ban, national security, atomic bor policy, military technology 1964 Oct 'false bottom', marine biology, plankton, sonar, shrimp, he sea scattering layer, deep sea 'layer of life' 1951 sonar, echo sounding ocean floor, plankton, deep sea scaphotic zone 1966 se scorpion, Arachnida, natural history, animal behavior, canroides 1966 Mar p family, public opinion, voters' attitudes voting behavior, coanalysis, ethnic groups, income social status, 'votes in 1950 emotional illness, mental health schizophrenia, epidemio psychosis, income status 1954 Mar adolescence, alienation, racial discrimination, divorce, po	y p 40-31 [037] hb test, missile p 27-35 [319] teropod deep Aug p 24-28 attering layer, 2 July p 44-50 Chelifer 95-160 [1039] rrelation the making' Nov p 11-13 logy, p 38-42 [441] verty, infant
control mechanisms of the eye 1964 July p 24-33 vision, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera 1968 Aug p 88-95 [516] pattern recognition, scan-path recordings, serial-recognition hypothesis, visual perception 1971 June p 34-43 [537] visual perception, bilingualism, dyslexia, grammatical relations, language, reading, perception of words 1972 July p 84-91 [545] brain circuitry, neurophysiology, pons, visual cortex, visual processing visual cells in pons 1976 Nov p 90-98 eye-witness testimony, crime, perception, memory, jury trial	arms race, atomic test ban, national security, atomic bor policy, military technology 1964 Oct 'false bottom', marine biology, plankton, sonar, shrimp, he sea scattering layer, deep sea 'layer of life' 1951 sonar, echo sounding ocean floor, plankton, deep sea sca photic zone 1966 Mar p false scorpion, Arachinda, natural history, animal behavior canroides 1966 Mar p family, public opinion, voters' attitudes voting behavior, coanalysis, ethnic groups, income social status, 'votes in 1950 emotional illness, mental health schizophrenia, epidemio psychosis, income status 1954 Mar adolescence, alienation, racial discrimination, divorce, por mortality crime succide drive addiction, chappers in An	y p 46-31 (1971) nb test, missile p 27-35 [319] teropod deep Aug p 24-28 attering layer, 2 July p 44-50 Chelifer 95-100 [1039] rrelation the making, Nov p 11-13 logy, p 38-42 [441] verty, infant
control mechanisms of the eye 1964 July p 24-33 vision, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera 1968 Aug p 88-95 [516] pattern recognition, scan-path recordings, serial-recognition hypothesis, visual perception 1971 June p 34-43 [537] visual perception, bilingualism, dyslexia, grammatical relations, language, reading, perception of words 1972 July p 84-91 [545] brain circuitry, neurophysiology, pons, visual cortex, visual processing visual cells in pons 1976 Nov p 90-98 eye-witness testimony, crime, perception, memory, jury trial 1974 Dec p 23-31 [562]	arms race, atomic test ban, national security, atomic bor policy, military technology 1964 Oct 'false bottom', marine biology, plankton, sonar, shrimp, he sea scattering layer, deep sea 'layer of life' 1951 sonar, echo sounding ocean floor, plankton, deep sea se photic zone 1966 Mar p false scorpion, Arachnida, natural history, animal behavior, canroides 1966 Mar p family, public opinion, voters' attitudes voting behavior, co analysis, ethnic groups, income social status, 'votes 1950 emotional illness, mental health schizophrenia, epidemio psychosis, income status 1954 Mar adolescence, alienation, racial discrimination, divorce, por mortality, crime, suicide drug addiction, changes in An family structure 1974 Aug	y p 46–31 [157] hb test, missile p 27–35 [319] teropod deep Aug p 24–28 attering layer, ly July p 44–50 Chelifer 95–100 [1039] rrelation the making' Nov p 11–13 logy, p 38–42 [441] verty, infant herican b 53–61 [561] eption U S
control mechanisms of the eye 1964 July p 24-33 vision, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera 1968 Aug p 88-95 [516] pattern recognition, scan-path recordings, serial-recognition hypothesis, visual perception 1971 June p 34-43 [537] visual perception, bilingualism, dyslexia, grammatical relations, language, reading, perception of words 1972 July p 84-91 [545] brain circuitry, neurophysiology, pons, visual cortex, visual processing visual cells in pons 1976 Nov p 90-98 eye-witness testimony, crime, perception, memory, jury trial 1974 Dec p 23-31 [562]	arms race, atomic test ban, national security, atomic bor policy, military technology 1964 Oct 'false bottom', marine biology, plankton, sonar, shrimp, he sea scattering layer, deep sea 'layer of life' 1951 sonar, echo sounding ocean floor, plankton, deep sea se photic zone 1966 Mar p false scorpion, Arachnida, natural history, animal behavior, canroides 1966 Mar p family, public opinion, voters' attitudes voting behavior, co analysis, ethnic groups, income social status, 'votes 1950 emotional illness, mental health schizophrenia, epidemio psychosis, income status 1954 Mar adolescence, alienation, racial discrimination, divorce, por mortality, crime, suicide drug addiction, changes in An family structure 1974 Aug 1974 Aug family planning, birth rate birth control, family size, contrace population trends acceptance of contraception 1959	y p 40-31 [1531] hb test, missile p 27-35 [319] teropod deep Aug p 24-28 attering layer. 2 July p 44-50 Chehifer 95-100 [1039] rrelation the making, Nov p 11-13 logy, p 38-42 [441] verty, infant herican b 53-61 [561] eption U S Apr p 50-55
control mechanisms of the eye 1964 July p 24-33 vision, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera 1968 Aug p 88-95 [516] pattern recognition, scan-path recordings, serial-recognition hypothesis, visual perception 1971 June p 34-43 [537] visual perception, bilingualism, dyslexia, grammatical relations, language, reading, perception of words 1972 July p 84-91 [545] brain circuitry, neurophysiology, pons, visual cortex, visual processing visual cells in pons 1976 Nov p 90-98 eye-witness testimony, crime, perception, memory, jury trial 1974 Dec p 23-31 [562]	arms race, atomic test ban, national security, atomic bor policy, military technology 1964 Oct 'false bottom', marine biology, plankton, sonar, shrimp, he sea scattering layer, deep sea 'layer of life' 1951 sonar, echo sounding ocean floor, plankton, deep sea se photic zone 1966 mily se scorpion, Arachnida, natural history, animal behavior, canroides 1966 Mar p family, public opinion, voters' attitudes voting behavior, cc analysis, ethnic groups, income social status, 'votes in 1950 emotional illness, mental health schizophrenia, epidemio psychosis, income status 1954 Mar adolescence, alienation, racial discrimination, divorce, por mortality, crime, suicide drug addiction, changes in An family structure 1974 Aug 1974 family planning, birth rate birth control, family size, contrac population trends acceptance of contraception 1959 economic development demographic transition, industrial	y p 40–31 [037] hb test, missile p 27–35 [319] teropod deep Aug p 24–28 attering layer. 2 July p 44–50 Chelifer 95–100 [1039] rrelation the making' Nov p 11–13 logy, p 38–42 [441] verty, infant serican berican c 53–61 [561] eption U S App p 50–55 tzation
control mechanisms of the eye 1964 July p 24-33 vision, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera 1968 Aug p 88-95 [516] pattern recognition, scan-path recordings, serial-recognition hypothesis, visual perception 1971 June p 34-43 [537] visual perception, bilingualism, dyslexia, grammatical relations, language, reading, perception of words 1972 July p 84-91 [545] brain circuitry, neurophysiology, pons, visual cortex, visual processing visual cells in pons 1976 Nov p 90-98 eye-witness testimony, crime, perception, memory, jury trial 1974 Dec p 23-31 [562] Facial expression, behavior, speech, vocal display, nonverbal communication, facial expression in communication 1965 Oct p 88-94 [627] fortan englished anylety personality 1963 Mar p 96-104 [475]	arms race, atomic test ban, national security, atomic bor policy, military technology 1964 Oct 'false bottom', marine biology, plankton, sonar, shrimp, he sea scattering layer, deep sea 'layer of life' 1951 sonar, echo sounding ocean floor, plankton, deep sea scaphotic zone 1966 se scorpion, Arachnida, natural history, animal behavior, carroides 1966 Mar p family, public opinion, voters' attitudes voting behavior, coanalysis, ethnic groups, income social status, 'votes in 1950 emotional illness, mental health schizophrenia, epidemio psychosis, income status 1954 Mar adolescence, alienation, racial discrimination, divorce, por mortality, crime, suicide drug addiction, changes in An family structure 1974 Aug if family planning, birth rate birth control, family size, contract population trends acceptance of contraception 1959 economic development demographic transition, industrial urbanization, population control economic development	y p 46-31 (37) y p 46-31 (37) hb test, missile p 27-35 [319] teropod deep Aug p 24-28 attering layer, 2 July p 44-50 Chelifer 95-100 [1039] rrelation the making' Nov p 11-13 logy, p 38-42 [441] verty, infant serican b 53-61 [561] eption US Apr p 50-55 lization t and the
control mechanisms of the eye vision, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera pattern recognition, scan-path recordings, serial-recognition hypothesis, visual perception language, reading, perception of words language, reading, perception, visual cortex, visual processing visual cells in pons language, reading, perception, memory, jury trial language, perception, memory, jury trial language, perception, perception, memory, jury trial language, perception, perception, memory, jury trial language, perception, memory, jury trial language, perception, perception, memory, jury trial language, perception, perception, memory, jury trial language, perception, perception, memory, jury trial language, perception, perception, perception, memory, jury trial language, perception, perception, perception, memory, jury trial language, perception, percepti	arms race, atomic test ban, national security, atomic bor policy, military technology 1964 Oct 'false bottom', marine biology, plankton, sonar, shrimp, he sea scattering layer, deep sea 'layer of life' 1951 sonar, echo sounding ocean floor, plankton, deep sea se photic zone 1966 Mar p false scorpion, Arachmida, natural history, animal behavior, controides 1966 Mar p family, public opinion, voters' attitudes voting behavior, contained analysis, ethnic groups, income social status, 'votes in 1950 emotional illness, mental health schizophrenia, epidemio psychosis, income status 1954 Mar adolescence, alienation, racial discrimination, divorce, por mortality, crime, suicide drug addiction, changes in An family structure 1974 Aug I family planning, birth rate birth control, family size, contract population trends acceptance of contraception 1959 acconomic development demographic transition, industrial urbanization, population control, economic development demographic transition 1963 Sept p birth control, population growth, economic development I	y p 40-31 (1931) in test, missile p 27-35 [319] teropod deep Aug p 24-28 attering layer, 2 July p 44-50 Chelifer 95-100 [1039] rrelation the making' Nov p 11-13 logy, p 38-42 [441] verty, infant serican p 53-61 [561] eption U S Apr p 50-55 ization t and the 62-71 [645] irromotion of
control mechanisms of the eye vision, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera pattern recognition, scan-path recordings, serial-recognition hypothesis, visual perception hypothesis, visual perception 1971 June p 34-43 [537] visual perception, bilingualism, dyslexia, grammatical relations, language, reading, perception of words brain circuitry, neurophysiology, pons, visual cortex, visual processing visual cells in pons visual cells in pons preception, memory, jury trial 1974 Dec p 23-31 [562] Facial expression, behavior, speech, vocal display, nonverbal communication, facial expression in communication 1965 Oct p 88-94 [627] factor analysis, anxiety, personality stone tools, tool assemblages, multivariate analysis computer analysis, Paleolithic archeology, Bordes method stone tools as fossils of	arms race, atomic test ban, national security, atomic bor policy, military technology 1964 Oct false bottom?, marine biology, plankton, sonar, shrimp, he sea scattering layer, deep sea 'layer of life' 1951 sonar, echo sounding ocean floor, plankton, deep sea se photic zone 1966 Mar p false scorpion, Arachnida, natural history, animal behavior, canroides 1966 Mar p family, public opinion, voters' attitudes voting behavior, co analysis, ethnic groups, income social status, 'votesi 1950 emotional illness, mental health schizophrenia, epidemio psychosis, income status 1954 Mar adolescence, alienation, racial discrimination, divorce, por mortality, crime, suicide drug addiction, changes in An family structure 1974 Aug family planning, birth rate birth control, family size, contrace population trends acceptance of contraception 1959 economic development demographic transition, industrial urbanization, population control, economic development demographic transition 1963 Sept p birth control, population growth economic development phirth control in Taiwan 1964 May p	y p 40-31 (2011) y p 40-31 (319) teropod deep Aug p 24-28 attering layer, 2 July p 44-50 Chelifer 95-100 (1039) rrelation the making' Nov p 11-13 logy, p 38-42 (441) verty, infant serican 5 53-61 [561] eption U S Apr p 50-55 ization t and the 62-71 [645] rromotion of 29-37 [621]
control mechanisms of the eye vision, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera pattern recognition, scan-path recordings, serial-recognition hypothesis, visual perception hypothesis, visual perception hypothesis, visual perception of 1971 June p 34-43 [537] visual perception, bilingualism, dyslexia, grammatical relations, language, reading, perception of words language, reading, perception of words brain circuitry, neurophysiology, pons, visual cortex, visual processing visual cells in pons l976 Nov p 90-98 eye-witness testimony, crime, perception, memory, jury trial l974 Dec p 23-31 [562] Facial expression, behavior, speech, vocal display, nonverbal communication, facial expression in communication l965 Oct p 88-94 [627] factor analysis, anxiety, personality stone tools, tool assemblages, multivariate analysis computer analysis, Paleolithic archeology, Bordes method stone tools as fossils of behavior l969 Apr p 70-84 [643] faience, Egyptian glass, glass, glassmakers, Roman glass, chemical and	arms race, atomic test ban, national security, atomic bor policy, military technology 1964 Oct 'false bottom', marine biology, plankton, sonar, shrimp, he sea scattering layer, deep sea 'layer of life' 1951 sonar, echo sounding ocean floor, plankton, deep sea sea photic zone 1966 Mar p false scorpion, Arachnida, natural history, animal behavior, canroides 1966 Mar p family, public opinion, voters' attitudes voting behavior, cc analysis, ethnic groups, income social status, 'votes in 1950 emotional illness, mental health schizophrenia, epidemio psychosis, income status 1954 Mar adolescence, alienation, racial discrimination, divorce, por mortality, crime, suicide drug addiction, changes in An family structure 1974 Aug 1974 family planning, birth rate birth control, family size, contrac population trends acceptance of contraception 1959 economic development demographic transition, industrial urbanization, population control, economic development demographic transition 1963 Sept p birth control, population growth economic development plate population birth control human population. India infant mortality, metally burth control human population.	y p 40-31 [031] hb test, missile p 27-35 [319] teropod deep Aug p 24-28 attering layer. 2 July p 44-50 Chelifer 95-100 [1039] rrelation the making' Nov p 11-13 logy, p 38-42 [441] verty, infant serican b 53-61 [561] eption U S Apr p 50-55 tzation t and the 62-71 [645] foromotion of 29-37 [621] edical care
control mechanisms of the eye vision, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera pattern recognition, scan-path recordings, serial-recognition hypothesis, visual perception lyothesis, visual perception, bilingualism, dyslexia, grammatical relations, language, reading, perception of words lyota July p 84-91 [545] brain circuitry, neurophysiology, pons, visual cortex, visual processing visual cells in pons lyothesis testimony, crime, perception, memory, jury trial lyota Dec p 23-31 [562] Facial expression, behavior, speech, vocal display, nonverbal communication, facial expression in communication lyota Dec p 23-31 [562] factor analysis, anxiety, personality lyota Mar p 96-104 [475] stone tools, tool assemblages, multivariate analysis computer analysis, Paleolithic archeology, Bordes method stone tools as fossils of behavior lyota Apr p 70-84 [643] faience, Egyptian glass, glass, glassmakers, Roman glass, chemical and lyota Nov p 120-130	arms race, atomic test ban, national security, atomic bor policy, military technology 1964 Oct 'false bottom', marine biology, plankton, sonar, shrimp, he sea scattering layer, deep sea 'layer of life' 1951 sonar, echo sounding ocean floor, plankton, deep sea se photic zone 1966 Mar p false scorpion, Arachnida, natural history, animal behavior canroides 1966 Mar p family, public opinion, voters' attitudes voting behavior, analysis, ethnic groups, income social status, 'votes in 1950 emotional illness, mental health schizophrenia, epidemio psychosis, income status 1954 Mar adolescence, alienation, racial discrimination, divorce, por mortality, crime, suicide drug addiction, changes in An family structure 1974 Aug I family planning, birth rate birth control, family size, contract population trends acceptance of contraception 1959 economic development demographic transition, industrial urbanization, population control, economic development demographic transition 1963 Sept p birth control, population growth economic development pirth control, population growth economic development pirth control, human population India, infant mortality, mexperience in an Indian village 1970 July p 10 aboution birth control, contraception population control, and aboution, birth control, contraception population control.	y p 46–31 (b31) nb test, missile p 27–35 [319] teropod deep Aug p 24–28 attering layer, 2 July p 44–50 Chelifer 95–100 [1039] rrelation the making' Nov p 11–13 logy, p 38–42 [441] verty, infant serican b 53–61 [561] eption U S Apr p 50–55 tration t and the 62–71 [645] bromotion of 29–37 [621] edical care 5–114 [1184] public
control mechanisms of the eye vision, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera pattern recognition, scan-path recordings, serial-recognition hypothesis, visual perception lypothesis, visual perception of words language, reading, perception of words lypothesis, perception of words lypothesis, perception of words lypothesis, perception, nemory, lury processing visual cells in pons lypothesis testimony, crime, perception, memory, jury trial lypothesis testimony, crime, perception, memory, jury trial lypothesis, perception, memory, jury trial lypothesis, perception, memory, jury trial lypothesis, anxiety, personality lypothesis, anxiety, personality lypothesis, dollassemblages, multivariate analysis computer analysis, Paleolithic archeology, Bordes method stone tools as fossils of behavior lypothesis, perception lypothesis, perception, memory, jury trial lypothesis, perce	arms race, atomic test ban, national security, atomic bor policy, military technology 1964 Oct false bottom, marine biology, plankton, sonar, shrimp, he sea scattering layer, deep sea 'layer of life' 1951 sonar, echo sounding ocean floor, plankton, deep sea se photic zone 1966 mar photic zone 1966 mar per family, public opinion, voters' attitudes voting behavior, coannoides 1966 mar per family, public opinion, voters' attitudes voting behavior, coannoides 1966 mar per family, public opinion, voters' attitudes voting behavior, coannoides 1966 mar per family, public opinion, voters' attitudes voting behavior, coannoides 1950 memotional illness, mental health schizophrenia, epidemio psychosis, income status 1954 Mar adolescence, alienation, racial discrimination, divorce, por mortality, crime, suicide drug addiction, changes in An family structure 1974 Aug 1964 maily planning, birth rate birth control, family size, contract population trends acceptance of contraception 1959 economic development demographic transition, industrial urbanization, population control, economic development phirth control, population growth economic development phirth control, population growth economic development phirth control, human population India, infant mortality, mexperience in an Indian village 1970 July p 10 policy in US	y p 40-31 (b31) y p 40-31 (b31) hb test, missile p 27-35 [319] teropod deep Aug p 24-28 attering layer, 2 July p 44-50 Chelifer 955-100 [1039] rrelation the making' Nov p 11-13 logy, p 38-42 [441] verty, infant serican 5 53-61 [561] eption U S Apr p 50-55 ization t and the 62-71 [645] foromotion of 29-37 [621] edical care 5-114 [1184] public uly p 17-23
control mechanisms of the eye vision, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera 1968 Aug p 88–95 [516] pattern recognition, scan-path recordings, serial-recognition hypothesis, visual perception 1971 June p 34-43 [537] visual perception, bilingualism, dyslexia, grammatical relations, language, reading, perception of words 1972 July p 84-91 [545] brain circuitry, neurophysiology, pons, visual cortex, visual processing visual cells in pons 1976 Nov p 90–98 eye-witness testimony, crime, perception, memory, jury trial 1974 Dec p 23-31 [562] Facial expression, behavior, speech, vocal display, nonverbal communication, facial expression in communication 1965 Oct p 88–94 [627] factor analysis, anxiety, personality 1963 Mar p 96–104 [475] stone tools, tool assemblages, multivariate analysis computer analysis, Paleolithic archeology, Bordes method stone tools as fossils of behavior faience, Egyptian glass, glass, glassmakers, Roman glass, chemical and physical analysis of ancient glass 1963 Nov p 120–130 falling-body velocity, free fall, Galileo Merton rule science history 1973 May p 84-92	arms race, atomic test ban, national security, atomic bor policy, military technology 1964 Oct false bottom, marine biology, plankton, sonar, shrimp, he sea scattering layer, deep sea 'layer of life' 1951 sonar, echo sounding ocean floor, plankton, deep sea se photic zone 1966 mar plankton, Arachnida, natural history, animal behavior, carroides 1966 Mar planking, public opinion, voters' attitudes voting behavior, canalysis, ethnic groups, income social status, 'votes in 1950 emotional illness, mental health schizophrenia, epidemio psychosis, income status 1954 Mar adolescence, alienation, racial discrimination, divorce, por mortality, crime, suicide drug addiction, changes in An family structure 1974 Aug I family planning, birth rate birth control, family size, contract population trends acceptance of contraception 1959 economic development demographic transition, industrial urbanization, population growth economic development phirth control, population growth economic development phirth control, human population India, infant mortality, mexperience in an Indian village 1970 July p 10 abortion, birth control, contraception population control, popicy in U S 1973 July size, urbanization U S census U S population reapport	y p 40-51 [N57] nb test, missile p 27-35 [319] teropod deep Aug p 24-28 attering layer, 2 July p 44-50 Chelifer 95-100 [1039] rrelation the making, Nov p 11-13 logy, p 38-42 [441] verty, infant serican p 53-61 [561] eption U S Apr p 50-55 ization t and the 62-71 [645] irromotion of 29-37 [621] edical care 5-114 [1184] oublic uly p 17-23 orttonment
control mechanisms of the eye vision, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera 1968 Aug p 88–95 [516] pattern recognition, scan-path recordings, serial-recognition hypothesis, visual perception 1971 June p 34-43 [537] visual perception, bilingualism, dyslexia, grammatical relations, language, reading, perception of words 1972 July p 84-91 [545] brain circuitry, neurophysiology, pons, visual cortex, visual processing visual cells in pons 1976 Nov p 90–98 eye-witness testimony, crime, perception, memory, jury trial 1974 Dec p 23-31 [562] Factor analysis, anxiety, personality 1963 Mar p 96–104 [475] stone tools, tool assemblages, multivariate analysis computer analysis, Paleolithic archeology, Bordes method stone tools as fossils of behavior faience, Egyptian glass, glass, glassmakers, Roman glass, chemical and physical analysis of ancient glass 1963 Nov p 120–130 falling-body velocity, free fall, Galileo Merton rule science history 1973 May p 84–92 falling-stone problem, calculus, Euclidean geometry, infinitesimals	arms race, atomic test ban, national security, atomic bor policy, military technology 1964 Oct 'false bottom', marine biology, plankton, sonar, shrimp, he sea scattering layer, deep sea 'layer of life' 1951 sonar, echo sounding ocean floor, plankton, deep sea se photic zone 1966 Mar p false scorpion, Arachnida, natural history, animal behavior, canroides 1966 Mar p family, public opinion, voters' attitudes voting behavior, co analysis, ethnic groups, income social status, 'votesi 1950 emotional illness, mental health schizophrenia, epidemio psychosis, income status 1954 Mar adolescence, alienation, racial discrimination, divorce, por mortality, crime, suicide drug addiction, changes in An family structure 1974 Aug family planning, birth rate birth control, family size, contract population trends acceptance of contraception 1959 economic development demographic transition, industrial urbanization, population growth economic development pointh control, human population lindia, infant mortality, mexperience in an Indian village 1970 July p 10 abortion, birth control, contraception population control, policy in U S census Of 1950 1951 Aj	y p 40-51 (poly) y p 40-51 (poly) hb test, missile p 27-35 [319] teropod deep Aug p 24-28 attering layer, ly July p 44-50 Chelifer 95-100 [1039] rrelation the making, Nov p 11-13 logy, p 38-42 [441] verty, infant perican p 53-61 [561] eption U S Apr p 50-55 ization t and the 62-71 [645] information of 29-37 [621] edical care 5-114 [1184] subtle july p 17-23 intrionment or p 15-17
control mechanisms of the eye vision, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera 1968 Aug p 88–95 [516] pattern recognition, scan-path recordings, serial-recognition hypothesis, visual perception 1971 June p 34-43 [537] visual perception, bilingualism, dyslexia, grammatical relations, language, reading, perception of words 1972 July p 84-91 [545] brain circuitry, neurophysiology, pons, visual cortex, visual processing visual cells in pons 1976 Nov p 90–98 eye-witness testimony, crime, perception, memory, jury trial 1974 Dec p 23-31 [562] Facial expression, behavior, speech, vocal display, nonverbal communication, facial expression in communication 1965 Oct p 88–94 [627] factor analysis, anxiety, personality 1963 Mar p 96–104 [475] stone tools, tool assemblages, multivariate analysis computer analysis, Paleolithic archeology, Bordes method stone tools as fossils of behavior 1969 Apr p 70–84 [643] faience, Egyptian glass, glass, glassmakers, Roman glass, chemical and physical analysis of ancient glass 1963 Nov p 120–130 falling-body velocity, free fall. Galileo Merton rule science history 1973 May p 84–92 falling-stone problem, calculus, Euclidean geometry, infinitesimals mathematical logic, method of exhaustion, nonstandard analysis 1972 June p 78–86	arms race, atomic test ban, national security, atomic bor policy, military technology 1964 Oct 'false bottom', marine biology, plankton, sonar, shrimp, he sea scattering layer, deep sea 'layer of life' 1951 sonar, echo sounding ocean floor, plankton, deep sea se photic zone 1966 Mar p false scorpion, Arachiida, natural history, animal behavior, canroides 1966 Mar p family, public opinion, voters' attitudes voting behavior, co analysis, ethnic groups, income social status, 'votes in 1950 emotional illness, mental health schizophrenia, epidemio psychosis, income status 1954 Mar adolescence, alienation, racial discrimination, divorce, por mortality, crime, suicide drug addiction, changes in An family structure 1974 Aug I family planning, birth rate birth control, family size, contract population trends acceptance of contraception 1959 economic development demographic transition, industrial urbanization, population control, economic development demographic transition 1963 Sept p birth control, population growth economic development pointh control, human population India, infant mortality, mexperience in an Indian village 1970 July p 10 abortion, birth control, contraception population control, policy in U S 1973 July p 10 abortion, birth control, contraception population control, policy in U S 1973 July p 10 1951 Agricultation trends acceptance of contraception 1959 Agricultation 1959 Agricultation 1950 Agricultation 1959 Agricultat	y p 40–31 (por p 40–31 (por p 40–31 (por p 50–35 (319)) teropod deep Aug p 24–28 attering layer. 2 July p 44–50 Chelifer 95–100 (1039) rrelation the making' Nov p 11–13 logy. 2 p 38–42 (441) perty, infant serican p 53–61 (561) eption U S Apr p 50–55 ization t and the 62–71 [645] foromotion of 29–37 [621] edical care 5–114 [1184] sublic uly p 17–23 intronment or p 15–17 in p 50–55
control mechanisms of the eye vision, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera 1968 Aug p 88–95 [516] pattern recognition, scan-path recordings, serial-recognition hypothesis, visual perception 1971 June p 34-43 [537] visual perception, bilingualism, dyslexia, grammatical relations, language, reading, perception of words 1972 July p 84-91 [545] brain circuitry, neurophysiology, pons, visual cortex, visual processing visual cells in pons 1976 Nov p 90–98 eye-witness testimony, crime, perception, memory, jury trial 1974 Dec p 23-31 [562] Facial expression, behavior, speech, vocal display, nonverbal communication, facial expression in communication 1965 Oct p 88–94 [627] factor analysis, anxiety, personality 1963 Mar p 96–104 [475] stone tools, tool assemblages, multivariate analysis computer analysis, Paleolithic archeology, Bordes method stone tools as fossils of behavior 1969 Apr p 70–84 [643] faience, Egyptian glass, glass, glassmakers, Roman glass, chemical and physical analysis of ancient glass 1963 Nov p 120–130 falling-body velocity, free fall. Galileo Merton rule science history 1973 May p 84–92 falling-stone problem, calculus, Euclidean geometry, infinitesimals mathematical logic, method of exhaustion, nonstandard analysis 1972 June p 78–86	arms race, atomic test ban, national security, atomic bor policy, military technology 1964 Oct false bottom, marine biology, plankton, sonar, shrimp, he sea scattering layer, deep sea 'layer of life' 1951 sonar, echo sounding ocean floor, plankton, deep sea se photic zone 1966 Mar p false scorpion, Arachiida, natural history, animal behavior, carroides 1966 Mar p family, public opinion, voters' attitudes voting behavior, cc analysis, ethnic groups, income social status, 'votes in 1950 emotional illness, mental health schizophrenia, epidemio psychosis, income status 1954 Mar adolescence, alienation, racial discrimination, divorce, por mortality, crime, suicide drug addiction, changes in An family structure 1974 Aug I family planning, birth rate birth control, family size, contract population trends acceptance of contraception 1959 economic development demographic transition, industrial urbanization, population growth economic development phirth control, population growth economic development phirth control, human population India, infant mortality, mexperience in an Indian village 1970 July p 10 abortion, birth control, contraception population control, policy in U S 1973 July size, urbanization U S census U S population reappe U S census of 1950 1951 Ag U S census, urbanization age sex distribution, baby boom	y p 40-31 (2017) y p 40-31 (2017) hb test, missile p 27-35 [319] teropod deep Aug p 24-28 attering layer, 2 July p 44-50 Chelifer 955-100 [1039] rrelation the making' Nov p 11-13 logy, p 38-42 [441] verty, infant serican 5 53-61 [561] eption U S Apr p 50-55 ization t and the 62-71 [645] promotion of 29-37 [621] edical care 5-114 [1184] public uly p 17-23 pritionment or p 15-17 iv p 50-55 central
control mechanisms of the eye vision, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera 1968 Aug p 88–95 [516] pattern recognition, scan-path recordings, serial-recognition hypothesis, visual perception 1971 June p 34-43 [537] visual perception, bilingualism, dyslexia, grammatical relations, language, reading, perception of words 1972 July p 84-91 [545] brain circuitry, neurophysiology, pons, visual cortex, visual processing visual cells in pons 1976 Nov p 90–98 eye-witness testimony, crime, perception, memory, jury trial 1974 Dec p 23-31 [562] Facial expression, behavior, speech, vocal display, nonverbal communication, facial expression in communication 1965 Oct p 88–94 [627] factor analysis, anxiety, personality 1963 Mar p 96–104 [475] stone tools, tool assemblages, multivariate analysis computer analysis, Paleolithic archeology, Bordes method stone tools as fossils of behavior 1969 Apr p 70–84 [643] faience, Egyptian glass, glass, glassmakers, Roman glass, chemical and physical analysis of ancient glass 1963 Nov p 120–130 falling-body velocity, free fall. Galileo Merton rule science history 1973 May p 84–92 falling-stone problem, calculus, Euclidean geometry, infinitesimals mathematical logic, method of exhaustion, nonstandard analysis 1972 June p 78–86 Fallot tetralogy, cardiology, ductus arteriosus cardiovascular surgery 1950 Jan p 14–17	arms race, atomic test ban, national security, atomic bor policy, military technology 1964 Oct 'false bottom', marine biology, plankton, sonar, shrimp, he sea scattering layer, deep sea 'layer of life' 1951 sonar, echo sounding ocean floor, plankton, deep sea se photic zone 1966 Mar p false scorpion, Arachnida, natural history, animal behavior, canroides 1966 Mar p family, public opinion, voters' attitudes voting behavior, co analysis, ethnic groups, income social status, 'votesi 1950 emotional illness, mental health schizophrenia, epidemio psychosis, income status 1954 Mar adolescence, alienation, racial discrimination, divorce, por mortality, crime, suicide drug addiction, changes in An family structure 1974 Aug 1974 Aug family planning, birth rate birth control, family size, contrace population trends acceptance of contraception 1959 economic development demographic transition, industrial urbanization, population growth economic development forth control, population growth economic development pointh control, human population India, infant mortality, mexperience in an Indian village 1970 July p 100 abortion, birth control, contraception population control, policy in U S census of 1950 1951 Aj birth rate, birth control family planning contraception, U S census, urbanization age sex distribution, baby boom entition 1961 July 1960 1960 1960 1960 1960 1960 1960 1960	y p 40-31 (poly) y p 40-31 (poly) hattering layer, 2 July p 44-50 Chelifer 95-100 (1039) rrelation the making' Nov p 11-13 logy, p 38-42 (441) verty, infant perican 5 53-61 (561) eption U S Apr p 50-55 ization t and the 62-71 [645] promotion of 29-37 [621] edical care 5-114 [1184] public sully p 17-23 protionment or p 15-17 in p 50-55 izentral control cont
control mechanisms of the eye vision, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera 1968 Aug p 88–95 [516] pattern recognition, scan-path recordings, serial-recognition hypothesis, visual perception 1971 June p 34-43 [537] visual perception, bilingualism, dyslexia, grammatical relations, language, reading, perception of words 1972 July p 84-91 [545] brain circuitry, neurophysiology, pons, visual cortex, visual processing visual cells in pons 1976 Nov p 90–98 eye-witness testimony, crime, perception, memory, jury trial 1974 Dec p 23-31 [562] Facial expression, behavior, speech, vocal display, nonverbal communication, facial expression in communication 1965 Oct p 88–94 [627] factor analysis, anxiety, personality 1963 Mar p 96–104 [475] stone tools, tool assemblages, multivariate analysis computer analysis, Paleolithic archeology, Bordes method stone tools as fossils of behavior 1969 Apr p 70–84 [643] faience, Egyptian glass, glass, glassmakers, Roman glass, chemical and physical analysis of ancient glass 1963 Nov p 120–130 falling-body velocity, free fall. Galileo Merton rule science history 1973 May p 84–92 falling-stone problem, calculus, Euclidean geometry, infinitesimals mathematical logic, method of exhaustion, nonstandard analysis 1972 June p 78–86	arms race, atomic test ban, national security, atomic bor policy, military technology 1964 Oct false bottom, marine biology, plankton, sonar, shrimp, he sea scattering layer, deep sea 'layer of life' 1951 sonar, echo sounding ocean floor, plankton, deep sea se photic zone 1966 Mar p false scorpion, Arachiida, natural history, animal behavior, carroides 1966 Mar p family, public opinion, voters' attitudes voting behavior, cc analysis, ethnic groups, income social status, 'votes in 1950 emotional illness, mental health schizophrenia, epidemio psychosis, income status 1954 Mar adolescence, alienation, racial discrimination, divorce, por mortality, crime, suicide drug addiction, changes in An family structure 1974 Aug I family planning, birth rate birth control, family size, contract population trends acceptance of contraception 1959 economic development demographic transition, industrial urbanization, population growth economic development phirth control, population growth economic development phirth control, human population India, infant mortality, mexperience in an Indian village 1970 July p 10 abortion, birth control, contraception population control, policy in U S 1973 July size, urbanization U S census U S population reappe U S census of 1950 1951 Ag U S census, urbanization age sex distribution, baby boom	y p 40-51 (p. 17) y p 40-51 (p. 17) nb test, missile p 27-35 [319] teropod deep Aug p 24-28 attering layer, 2 July p 44-50 Chelifer 95-100 [1039] rrelation the making, Nov p 11-13 logy, p 38-42 [441] verty, infant actican p 53-61 [561] eption U S Apr p 50-55 ization t and the 62-71 [645] irromotion of 29-37 [621] edical care 5-114 [1184] public sully p 17-23 irr p 50-55 certical by p 39-45 ice 'bite' is

F.A.O., human nutrition, population, food production, U N technical agencies, 'the food problem' 1950 Aug p 11-15	cybernetics, automatic control, self-regulation, computer science, automata theory, mechanical, biological, social self-regulation
land reform, agricultural technology, food supply, population growth,	1948 Nov p 14–19
human nutrition, F A O Indicative World Plan	automata theory, artificial sensory organs, mechanical behavior, an
1970 Aug p 54-69 [1186]	imitation of life 1950 May p 42–45
Faraday, electrical induction, science history, life and work of Michael	automata theory, learning, conditioned reflex 1951 Aug p 60–63
Faraday 1953 Oct p 90–98	automatic control, self-regulation, automata theory, information theory, introduction to single-topic issue on automatic control
Faraday rotation, galactic magnetism, starlight polarization, spiral	1952 Sept p 44-47
galaxies, spiral arms, stiffening of spiral arms by Milky Way magnetic field 1965 June p 46–54	control loop, servomechanisms, flyball governor, positive feedback,
magnetic field 1965 June p 46-54 fast neutron reactor, fission reactor, nuclear power, breeder reactor,	negative feedback, ecological system, nervous system, economic
boiling-water reactor, homogeneous reactor, sodium-cooled reactor	system, automatic control, feedback concept 1952 Sept p 48–55
1954 Dec p 33–39	bone, calcium, cartilage, hydroxyapatite crystal, osteoclasts
breeder reactor, nuclear power, uranium cycle, thorium cycle, liquid-	1955 Feb p 84-91
metal reactor, fission reactor, energy demand	computer science, von Neumann machine, automata theory, Turing
1970 Nov p 13–21 [339]	machine, self-reproducing machine, 'artificial living plants'
breeder reactor, nuclear power, fission reactor, Superphenix in France	1956 Oct p 118–126
1977 Mar p 26–35	embryonic development, cell differentiation, tissue specialization
fast neutrons, atomic nucleus, spectroscopy, nuclear probe, neutron	1958 Dec p 36–41
spectroscopy, structure of atomic nucleus 1964 Mar p 79-88	eye movement, visual tracking visual scanning, human eye, control mechanisms of the eye 1964 July p 24-33
fasting, diet, human nutrition, metabolism starvation, kwashiorkor,	mechanisms of the eye 1964 July p 24-33 control theory, mathematics, cybernetics, computer programming,
marasmus, physiology of starvation 1971 Oct p 14–21 [1232]	frequency response, stability, dynamic programming, 'policy'
fat metabolism, fatty acids, coenzyme A, ATP, enzymes 1954 Jan p 32-36 [16]	concept 1964 Sept p 186–200
tissue, hormone, obesity, fat tissue, diet, role of fat metabolism in	manipulators, remote control, robot, automatic control, industrial
human physiology 1959 Dec p 70–76	manipulators 1964 Oct p 88–96
enzyme deficiency, genetic disease, amniocentesis, Tay-Sachs disease,	enzymes, protein synthesis, hemoglobin, myoglobin, control systems,
lipids, lipid-storage diseases, 10 lipid-storage diseases	cooperative enzymes, allosteric enzymes control of biochemical
1973 Aug p 88-97	reactions 1965 Apr p 36-45 [1008]
obese mice 1952 Sept p 74	vortex, edge tone, aerodynamic whistles, hole tone, sound waves,
fat tissue, fat metabolism, tissue, hormone, obesity, diet, role of fat	whistles, flutes, organs and rocket engines 1970 Jan p 40-46
metabolism in human physiology 1959 Dec p 70-76	control systems, water clock, thermostat, windmills, automatic control, flyball governor, origins of feedback control 1970 Oct p 110–118
Fata Morgana, atmospheric optics, mirages, optical illusion, refraction, walking on water 1976 Jan p 102–111	fatty acids, hormone-like substances, drug therapy, nervous system,
walking on water 1976 Jan p 102-111 fathogram, ocean floor, topography, Aleutian Trench, seamounts, sonar,	prostaglandm 1971 Nov p 84–92 [1235]
echo-sounding, the Pacific floor 1952 Apr p 19–33	brain function, carbohydrate, neurotransmitters, serotonin, human
fatigue, motivation, 'reactive inhibition', schizophrenia, experiment in	nutrition, tryptophan 1974 Feb p 84-91 [1291]
objective measurement of motivation 1963 May p 130-140	feedback in biology, 'turbidostatic selector' 1952 Sept p 68
fatigue wear, materials technology, wear, adhesive wear, abrasive wear,	feeding behavior, animal behavior, sharks, attack prevention, sensory
corrosion, surfaces in sliding contact 1962 Feb p 127–136	systems 1962 July p 60–68 [127]
fatty acid synthesis, microsome, acetic acid, coenzyme A, lecithin, lipids, synthesis not breakdown in reverse 1960 Feb p 46-51	basal metabolism, libernation homeothermy, circadian rhythm, circannual rhythm, hypothalamus, squirrels, dormice in libernation
synthesis not breakdown in reverse 1960 Feb p 46-51 fatty acids, fat metabolism, coenzyme A, ATP, enzymes	1968 Mar p 110–118 [513]
1954 Jan p 32–36 [16]	animal behavior, innate behavior, learning, parental care, sea gull
thin-film optical devices, interferometry, fluorescence, wave motion,	chicks 1969 Dec p 98–106 [1165]
light waves, monomolecular films 1970 Mar p 108-119	chimpanzee, food sharing hunting, carnivorous chimpanzees
feedback, hormone-like substances, drug therapy, nervous system,	omnivorous chimpanzees, Gombe National Park, Tanzania
prostaglandin 1971 Nov p 84–92 [1235]	1973 Jan p 32–42 [382]
fatty liver, alcoholism, alcohol metabolism, liver function, malnutrition, 'empty calories', acetaldehyde, cirrhosis 1976 Mar p 25-33 [1336]	mosquito bite, yellow fever, insect behavior, malaria, feeding behavior of mosquitoes 1978 June p. 138-148 [1392]
fault, see plate tectonics, block fault	of mosquitoes 1978 June p 138–148 [1392] feelies', tactile simulation 1974 May p 61
fauna, Antarctica, flora, lichens, blue-green algae, ecology, Antarctica	female-role ideology, sex roles women's aspirations, attitude survey
terrestrial life 1962 Sept p 212–230 [865]	1972 Jan p 34–42
Fayum, primate evolution, hominoid, fossil primates, apes, man-apes,	fences, hickory, axe-handles, smoked ham, hickory nuts, economic
Aegyptopithecus, Oligocene ancestor of hominoids	botany, forest, natural history, shagbark hickory 1948 Sept p 40-43
F.D.A: Food and Drug Administration	Fermat, Descartes, mathematics history, analytic geometry, conic sections, Euler, mathematics 1949 Jan p. 40-45
F.D A., pharmaceutical industry, prostheses, medical care, medical	fermentation, enzymes catalysis digestion, respiration, lock-and-key
economics, drug prescription, drug research, medical laboratory	theory, science history 1948 Dec p 28–39
services 1973 Sept p 161–166	ATP, muscle contraction, citric-acid cycle, energy transformation
tear, anger, adrenalin, noradrenalin 1955 May p 74-81 [428]	1953 Apr. p. 8592
emotional development comparative psychology, learning influence of	origins of life Miller-Urey experiment, high-energy radiation,
early environment, experiments with dogs 1956 Jan p 38-42 [469] anger, different adrenalins 1951 Nov p 40	heterotrophs, photosynthesis, autotrophs 1954 Aug p 44–53 [47]
feather duster worm, Annelida, lugworm, biological clock, circadian	ruminants metabolism, symbiosis, cellulose digestion, anaerobic metabolism, how cows digest grass 1958 Feb. p. 34–38
rhythm, marine worm 1959 June p. 132–142	metabolism, how cows digest grass 1958 Feb p 34–38 beer, enzymes, yeast, brewing, hops, chemistry and microbiology of
feather keratin, keratin, X-ray diffraction, protein structure alpha keratin	orewing 1959 Tune p. 00, 100
1969 Aug p 86–96 [1155]	baking yeast brewing aboliavin synthesis cryptococcal menungute
feathers, as food additive 1975 May p 45 Fechner's law, learning visual perception, psychophysics Skinner box,	cen physiology, yeasts, useful and noxious 1960 Feb p. 126 144
behavioral psychology, conditioned behavior, pigeon perception	to Batha 1958 Jan p 44
1961 July = 112_122 [458]	Fermi dies 1/6 and 2 and 2
Federation of American Societies for Experimental Biology, annual	Fermi surface, crystal structure, metals gross properties explained as
meeting 1056 Tune = 54	quantum enects 1062 Tul 110 100
feedback, insect behavior, social insect, army ant, ants, comparative psychology, reproduction pheromones trophallaxis natural history,	order conductivity, Sciliconductor materials technology
philosophy of science, anthropomorphism 1948 June p 16-23	properties, charge carriers electron mean free path, electrical
1940 Julie p 10-23	properties of materials 1967 Sept p 194–204

~-

crystal energetics, crystal structure, metallurgy, conduction electrons,	
quantum mechanics, quasi-particle concept, metal properties	
1073 Inn - 00	refus as transplant, histocompatability, immune response, immuno ocicil
refinition, fugit-energy physics, mesons, v-particles hoson, the mutual and	privilege, reproduction, trophoblast, nidation, placenta
01 particles 1057 fan - 33	
ingliferery physics, poson, guage theory 1077 X	and the state of t
fermium, californium, table of elements, einsteinium 'synthetic' element	
transuranium elements, mendelevium, radioactive decay, periodic	i de la
table at 101 1956 Dec p 66-80 [24	anaphylactic shock, mode of action and hazards of most wideh used
ferredoxin, energy-carrying chain in photosynthesis 1962 Oct p	
ferrite cores, computer memory, ferroelectric crystal memory, mercury	
delay line, magnetic tape, magnetic drum 1955 June p 92-10	phase materials, fiber-reinforced composites matrix, eutecucs
ferrites, magnetism, magnetic domains, iron, cobalt 1955 Jan p 68-7	
crystal structure, magnetism, materials technology, microwave	in the British Ministry of Private of
radiation, computer memory, industrial applications of iron oxides	light conduction 1960 Nov p 72-81
1060 Tune - 02 to	carrier-wave modulation, coaxial cable, communication technology
1960 June p 92-10 ferroelectric crystal memory, computer memory, ferrite cores, mercury	The state of the s
delay line, magnetic tape, magnetic drum 1955 June p 92–10	bandwidth, noise 1972 Sept p 98-113
delay line, magnetic tape, magnetic drum 1955 June p 92-10 ferrograph analysis, Beilby layer, friction, lubrication, machine wear,	
metal faugue, particles of wear, wear 1974 May p. 88-9	1973 Nov p 28-35
metal fatigue, particles of wear, wear 1974 May p 88-9 ferromagnetism, electron spin, materials technology, magnetic domains	
hysteresis, magnetic properties of materials 1967 Sept. p. 222–234	light-wave communication, pulse-code modulation, lightwave
noncrystalline alloy 1967 July p 42 Fertile Crescent, agricultural revolution, human evolution, cultural	
anthropology, Neolithic archeology, 8000 B C domestication of	composite materials, two-phase materials 1965 Feb p 28-37
plants and animals 1960 Sent p. 130–148 1605	fiber-reinforced composites, composite materials, materials technology
plants and animals 1960 Sept. p 130-148 [605] fertility, age-sex distribution, US census, human resources, mortality	whiskers, fiber glass, two-phase materials, matrix, eutectics
rates, population of US 1951 Sept p. 28–35	1967 Sept p 160-176
rates, population of US fertility control, see birth control, contraception 1951 Sept p 28-35	
ferfilization, sea urchin egg. parthenogenesis 1950 Dec p 46–49	
parthenogenesis, progesterone, hyaluronidase, zona pellucida	
	coronary occlusion, electrocardiography, nerve conduction heart infarct 1968 July p 19-27
1951 Mar p 44-47 contraception, birth control, reproduction, ovulation, nidation	infarct 1968 July p 19-21 fibrin, collagen, elastin, keratin, myosin, cell, polymers polymers in 1952
1954 Apr p 31–34	cells 1957 Sept. p 204–216 [35]
antibodies, antigen-antibody reaction, fertilizin	blood clotting, hemagglutination, fibrinogen, molecular biology,
1954 June p 70-75 [43]	thrombin, role of thrombin in converting fibringen into fibrin
cell differentiation, embryonic development, blastula, gastrula,	1962 Mar p 60-66
ectoderm, mesoderm, endoderm, embryological 'organizer', science	fibrinogen, blood clotting, hemagglutination, molecular biology,
history, review of classical embryology 1957 Nov p 79-88 [103]	thrombin fibran role of thrombin in converting fibrinogen into
sea urchin, spermatozoon, acrosome reaction, sexual reproduction,	fibrin 1962 Mar p 60-66
moment of fertilization 1959 July p 124-134	fibroblasts aging mitoric cell culture somatic cells, cell, DNA
cell differentiation, tissue specialization, 'lampbrush' chromosome,	replication, experiments in aging 1968 Mar p 32-3/1103
embryonic development, zygote, ovum, clone, cytology, how cells	u ound healing regeneration laul ocute collagen enidermal cells
specialize 1961 Sept p 124-140	1969 June p 40-20 [17-7]
active transport, passive transport, pinocytosis, phagocytosis, cytology.	collagen, elastin, microfibrils 1971 June p 44-52 [1225]
osmosis, cell membrane, functions of cell membranes	fiddler crab, biological clock, circadian rhythm 1954 Apr p 34-37
1961 Sept p 167–180 [96]	field emission, electron beam, cold cathode, current density, X-ray photography 1964 Jan p 108-118
avian reproduction, ring dove, breeding cycle, sexual behavior,	
hormone 1964 Nov p 48-54 [488]	field-emission microscope, microscopy, pictures of atoms 1952 May p 58-62
mitosis, ovum, embryonic development, meiosis, blastocyst, human	
embry os in the laboratory 1970 Dec p 44-54 [1206]	crystal structure, metals pictures of atoms 1957 June p 113-124 field-scanning rate, color television, picture elements, line structure,
sexual reproduction ionic regulatory mechanisms 1977 Nov p 128-138 [1372]	technology assessment, competing color television systems weighed
	1950 Dec p 13-17
human physiology, 60-hour-old embryo 1950 July p 28 fertilization of flowers, flower, pollunators, species specificity	field theory, high-energy physics, Classical physics quantum fields
1951 June p \$2-56	elementary particles, with 20 particles known, a review of the
fertilizers, insecticide, herbicide, agricultural technology, chemical	theoretical foundations of physics 1953 Apr p 37-64 [203]
2000 app. 1952 Aug. p. 15–19	matter, wave-particle duality, energy levels, electromagnetic lorce.
plant growth food production chemical industry, agricultural	nuclear forces, gravitation, fundamental research, quantum jumps
technology increasing world food supply 1903 June p 02-72	corpuscular streams what is matter? 1953 Sept p 52-57 [241]
to a production food production, pollution, imgation biospicie,	Maxwell's equations electromagnetism, life and work of James Clerk Maxwell 1955 June p 5%-71
a semiliared resolution soil erosion, prospere capacity to produce	Maxwell 1955 June p 5 mathematics physical sciences group theory, 'eightfold way'. S-math'
1970 3001 10 100-110 (1100)	theory, mathematics in physics 1964 Sept. p. 128-146
'green revolution'. India, food and agriculture, technology transfer,	particle interaction, high-energy physics, gauge theory 'weak' force
monsoons, irrigation, rice, agronomy, wheat, hybrid crop plants 1976 Sept p 154-163	electromagnetic force, 'strong' force 1974 July p 50-59
1970 Bept p	fighting behavior, cichlid fish, marine iguana, rattlesnake, animal
	behavior, comparative psychology, oryx 1961 Dec. p. 112-122 [410]
fertilizin, fertilization antibodies, antigen antibodi 1954 June p. 70-75 [43]	figure-ground perception, pattern recognition, texture discrimination
the material behavior mother-child interaction.	visual perception perceptual limitations 1975 Apr. p. 34-43 [561]
fetal conditioning, heartbeat, maternar behaviors 1973 May p 24-29 left-side preference in babyholding embryonic development	filariasis, circadian rhythm parasitism, elephantiasis tropical d sease 1958 July p 94 101
	Chaga's disease, public health 'zoonoses', parasitism trypanosomiaus
fetal injury, cleft palate, congenital anomalics 1957 Oct. p 109-116 teratogenesis rubella, teratology	malaria leishmaniasis plague, vellou fever, typl us ep demiolori
fetal lungs, infant, hvaline membrane disease, lung, surfactant 1973 Apr p 74-85	animal infection and human d sease 1900 May p. 161-170
19/3 Apr p 19-03	chemotherapy found 1949 May p 27
fetus, umbilical cord, placenta, anatoms and physiology of the umb lical 1952 July p 70-74	
cord	

ilm boiling, boiling, liquids, heat transfer, nuclear boiling, transition	fission fragments, nuclear fission, heavy nuclei, liqui	
boiling 1954 June p. 64–68	neutron, uranium 235, shell model	1965 Aug. p. 49–5
ilter board, for radioactive dust	fission fuels, energy consumption, energy resources, fusion fuels, geothermal energy, solar energy, ti	
inches, birds, mimicry, parasitism, sexual behavior, widow birds, animal behavior 1974 Oct. p. 92-98		'1 Sept. p. 60–70 [663
behavior 1974 Oct. p. 92–98 ingerprint, see: dermatoglyphics	fission products, rare earths, table of elements, abun	
ire, ecology, forestry, grassland, forest fire, role of fire in climax ecology	products draws attention to rare earths	1951 Nov. p. 26-30
1961 Apr. p. 150–160 [1099]	isotopes, uses in science and technology	1952 June p. 19-2
fire protection, 'flashover', pyrolysis, flammability standards	nuclear fuel cycle, plutonium separation, fission r	
1974 July p. 21–27		1952 July p. 62–6
fire ants, agricultural pest, dieldrin, pest control, insecticide	uranium fission, nuclear fission, 'synthetic' eleme transuranium elements, science history, discove	
1958 Mar. p. 36-41 fire-making, human evolution, fire vegetation, cooking, Neolithic	transuramum elements, science instory, discove	1958 Feb. p. 76–84
revolution, kiln, furnace, heat, introduction to single-topic issue on	natural reactor, nuclear fission, Oklo phenomeno	
heat 1954 Sept. p. 52–57	reactor, uranium deposits	1976 July p. 36-4
fire protection, fire, 'flashover', pyrolysis, flammability standards	food preservation?	1954 Nov. p. 50
1974 July p. 21–27	fission reactor, nuclear power, heavy-water reactor,	
fire vegetation, fire-making, human evolution, cooking, Neolithic	enriched uranium, A.E.C. program zirconium, jet engines, ilmenite	1951 Apr. p. 43-50 1951 June p. 18-21
revolution, kiln, furnace, heat, introduction to single-topic issue on heat 1954 Sept. p. 52-57	nuclear fuel cycle, plutonium separation, fission p	
fireball blackout', arms control, atomic test ban, EMP effect,	power	1952 July p. 62–6
underground nuclear explosions, strategic weapons	neutron beam, monochromator, neutron diffraction	
1972 Nov. p. 15–23 [342]		53 Aug. p. 23-29 [219
firefly, bioluminescence, glow worm, abyssal fish, luciferase, 'cold light'	nuclear power, breeder reactor, boiling-water reac	
1948 May p. 46–49	reactor, sodium-cooled reactor, fast neutron rea	
bioluminescence, insect behavior, insect physiology, luciferin, luciferase, chemotaxis, biochemistry of bioluminescence	nuclear power, 'atoms for peace', thermonuclear r	1954 Dec. p. 33–39
1962 Dec. p. 76–89 [141]	reactor, C.E.R.N., first of a four-part report on	
animal communication, behavioral adaptation, bioluminescence, insect	Conference on the Peaceful Uses of Atomic En	
behavior, synchronous flashing of fireflies 1976 May p. 74–85	1945	1955 Oct. p. 27-33
first aid, artificial respiration 1952 Jan. p. 35	'atoms for peace', nuclear power, breeder reactor,	
chest-thump heart remedy 1971 Feb. p. 47 Heimlich maneuver 1975 Dec. p. 50	breeder reactor, nuclear power, energy economics	1955 Oct. p. 56–68
Heimlich maneuver 1975 Dec. p. 50 fish, swimming, laminar flow, turbulence, purpoises, how fishes and sea-	U.K.	, atomic power in 1958 Mar. p. 29–35
going mammals swim 1957 Aug. p. 48–54 [1113]	energy economics, nuclear power, fuel rods, design	
animal behavior, marine biology, schooling behavior, sensory, systems	elements	1959 Feb. p. 37-43
for parallel orientation 1962 June p. 128–138 [124]	breeder reactor, nuclear power, energy economics	
sea, food chain, plankton, marine ecology, ocean, marine life, life in the	uranium cycle, breeder reactor development	1960 Jan. p. 82-94
ocean 1969 Sept. p. 46-162 [884] bioluminescence, fish-scale crystals, tapetum lucidum, optics under	neutron radiography, thermal neutrons, nondestra neutrons as inspection tool 1962	uctive testing, Nov. p. 107–119 [287]
water, camouflage 1971 Jan Ep. 64–72 [1209]	breeder reactor, energy demand, uranium fission,	plutonium, 'third
Death Valley, desert pupfish, species isolation, endangered species	generation' breeder reactors	1967 May p. 25-33
1971 Nov. p. 104–110 [1236]	energy demand, electric power, nuclear power, for	
bacteria, bioluminescence, flashlight fishes, symbiosis	economics, history and prospects of nuclear po-	
1977 Mar. p. 106–114 fish communication, animal communication, crustacea, whale, porpoises,	calefaction, Connecticut River, thermal pollution,	1968 Feb. p. 21-31
marine biology, animal sounds in the sea 1956 Apr. p. 93–102	nuclear power, fisheries, ecology, fish crisis	, madstrar coomis,
fish migration, salmon, homing behavior, animal navigation, chemotaxis	1970	May p. 42-52 [1177]
1955 Aug. p. 72–75	breeder reactor, nuclear power, fast neutron react	or, uranium cycle,
metabolism, salmon, swimming, laboratory observation of energy production by salmon 1965 Aug. p. 80-85 [1019]	thorium cycle, liquid-metal reactor, energy dem	and O Nov. – 12 21 (220)
fish physiology, evolution, lungfish, air-breathing fishes, Devonian period,	CANDU reactor, nuclear power, natural reactor,	0 Nov. p. 13-21 [339]
conquest of land-breathing organs 1968 Oct. p. 102-111 [1125]	CANDU system	1975 Oct. p. 17-27
fish population, eutrophication, water pollution, fisheries, runoff, Great	energy conservation, energy resources, nuclear rea	ector, nuclear-waste
Lakes, silt, U.S. Great Lakes' aging 1966 Nov. p. 94–104 [1056] fish-scale crystals, bioluminescence, fish, tapetum lucidum, optics under	disposal, atomic-weapon proliferation, Rasmus	sen report
water, camouflage 1971 Jan. p. 64–72 [1209]	nuclear fuel, nuclear power, Purex process, reproc	76 Jan. p. 21–31 [348]
fisheries, aquaculture, proteins, food, tilapia, pond culture	national faci, national power, I arex process, reproc	25511g 1976 Dec. p. 30–41
1963 May p. 143–152	breeder reactor, fast neutron reactor, nuclear pow	er, Superphénix in
eutrophication, water pollution, fish population, runoff, Great Lakes,	France	1977 Mar n 26-35
silt, U.S. Great Lakes' aging 1966 Nov. p. 94–104 [1056] ocean, food chain, food supply, food resources of the ocean	environmental pollution, nuclear power, public he	alth, radioactive
1969 Sept. p. 178–194 [886]	waste disposal, underground storage 197 in Scandinavia	7 June p. 21-31 [364]
calefaction, Connecticut River, fission reactor, thermal pollution,	low-cost 'swimming pool'	1951 Nov. p. 32 1952 July p. 35
industrial cooling, nuclear power, ecology, fish crisis	Fermi et al. patent	1953 Oct. p. 51
1970 May p. 42-52 [1177] food supply, marine farming, sea-water nutrients, upwelling, fishponds	molten U233 cycle	1954 Sept. p. 74
1970 Dec. p. 14-21 [1205]	Germany at work Calder Hall	1955 Oct. p. 44
protein for Haitians 1951 July p. 30	heavy water-liquid sodium reactor	1956 Dec. p. 52
fishing, anchovy crisis, El Niño, upwelling, Peru Current, Peruvian	Zero Power Reactor No. V	1956 Dec. p. 53 1957 Jan. p. 64
anchovy 1973 June p. 22-29 [1273] fishponds, food supply, fisheries, marine farming, sea-water nutrients,	uranium reactor technology	1957 Oct. p. 57
upwelling 1970 Dec. p. 14–21 [1205]	pressurized-water reactor fire safety	1957 Dec. p. 68
five-fold fertilizer yield 1948 Dec. p. 27	experimental boiling water reactor	1958 Feb. p. 46
lission, see: nuclear lission, meiosis, mitosis, fission reactor	boiling-water reactor technology	1958 Mar. p. 51
fission bomb, see: atomic bomb	plutonium fission reactor	1958 May p. 58 1958 Oct. p. 54
	gold-plated reactor vessel withstands corrosion	1959 May p. 80

_

r-

gas-cooled design for UK	1965 July p	M. Chate and the second
USSR developments	1965 July p	- The state of the
42 operable in U.S.	1974 Mar p	
seculso breeder reactor	•	anti-wake vortexes, contraits, jet hight,
fission-track duting, cosmic radiation, nuclear tracks, et	ching ionizing	flint tools, microwear analysis, Paleolithic archeology
randam, applications of Charged-particle tracks is	n solidi	1077 Nov. p. 108-126 (200)
ecochronology of the new materials	1969 June p. 30-3	flintknapping, technique in Turkey today 1969 Apr n 51
geochronology, plass age, meteorite age, mineral age, radioactive decay, uranium fission 197	pollery age.	Hip mechanism, acrodynamics, animal behavior, bird flight, insect flight,
Litzgerald contraction, ether drift, Maxwell's equations	6 Dec p 114-12	4 Clip-fling mechanism, hovering flight, lift generation
Lorentz transormation life and work of G. L. Litz	rei uivuv incory. medd	1975 Nov. p. 80-87 [133]]
10	951 Nov. n 01 0	'floaters', eye, vision, retina, nature and origin of 'floaters'
ine-told symmetry, liquid structure, polyhedral-hole me	Klel, geometrical	1702 Julic D 117-121
arrangement of molecules in a hand 1960 And	n 17d 13d 1763	flood plain, Arawak Indians, earthworks, agricultural system, ndged fields, New World archeology 1967 July p 92-100
 availon, problem solving, Gestalt psychology, insight, if 	he 'ah i' reaction	floods. Mississippi river meanders alloyal calley delias
1963 And	n 118 125 (476	1951 Apr p 18-23
fixed point theorems, mathematics, topology, surface de contraction	formation,	economic development, irrigation, Mekong river, monsoons hydro-
flagella, contractile proteins, keratin, myosin, epidermis,	6 Jan p 105~110	engineering, rice, Mekong river plan, United Nations
motility in bacteria	, k m e i group, 951 Jan p 20-2-	1963 Apr p 49-59
b icterial-cell wall, lysozyme, homeostasis, bucterial cy	zorom p 20-2. Jodasm	
protoplasts, bacteriophage, dissection of bacteria by	v lysozyme	Carboniferous period, tropical flora, deposition of coal 1948 July p 46-51
1960	June p. 132-142	
cilia, cytology, structure and function 1961 Fel	p 108-116 [79]	terrestrial life 1962 Sept p 212-230 [865]
actinomyosin, cyclosis, cilia, muscle contraction, cytol	ogy, cytoplasmic	flotation, mineral separation, surfactant, hubbles, collector ions, ore
streaming, actin, myosin, underlying unity of cellula	ir motion	beneficiation 1956 Dec p 99-110
ATP, axoneme, cell motility, cilia, microtubules, how c	i p. 184-204 [97]	
paramecium, sperm 1974 Oct	:па move. гр 44–52 [1304]	how solids flow 1959 Dec p 122-138 [268]
bacteria, b icterial motility, 'twiddling', rotation of flag	ella ella	Nower, fertilization of flowers, pollinators, species specificity 1951 June p 52-56
	75 Aug p 36-44	pollen, scanning electron microscope, plant cell, morphology
flagellar action, bacterial motility, cell motility, chemotax	us, E.coli	1968 Apr p 80-90 [1105]
1976 Apr	p 40-47 [1337]	bee, bumblebee energetics, symbiosis 1973 Apr p. 96–102 [1270]
flame chemistry, chemical kinetics, flash tube, ram jet, he		flower pigments, carotenoids, pigment synthesis, flavonoids,
	53 May p 29-35	anthocyanins, biochemistry and genetics of flower pigments 1964 June p 84-92 [186]
heat, oxy-aluminum torch, reaction kinetics, high temp	4 Sept. p 84–95	flowering plant hormones germination photogenodicity, phototropism
flare stars, radio astronomy, radio star, Jodrell Bank radio		1949 May p 40-13
solar flares, definitive evidence of radiowaves from st		plant harmones, photoperoducity, harticulture, control of flowering
	4 Aug p 13-19	1952 May P 49-50 [11-5]
	2 Dec p 70-76	photoperiodicity, plant circulation, pigment, hormone,
flash photolysis, light-matter interaction, photochemistry, light, photolysis, triplet state, photoreduction, photoc		photoperiodicity in regulation of plant physiology 1958 Apr p 108-117 [112]
	Sept p 158–170	plant grouth the technome photoperiodicity germination pigments,
flash tube, flame chemistry, chemical kinetics, ram jet, hea		nigment photogeognius anzume in plants 1900 DCC 9
luminosity, spectroscopy 195	3 May p 29-35	flowmeter, Doppler effect
flashlight fishes, bacteria, bioluminescence, fish, symbiosis		flu, see influenza
	Mar p 106-114	fluid dynamics, automatic control, continuous processing, petroleum refinery, control panel, automatic chemical plant
'flashover', fire, fire protection, pyrolysis, flammability star	4 July p 21–27	1952 Sept p 82-96
flavonoids, carotenoids, flower pigments, pigment synthesis	s,	perodynamics air pollution, microclimate micrometeorology,
anthocyanins, biochemistry and genetics of flower pig	ments	troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62-76
1964 June	p 84-92 [186]	the ground 1964 Oct p de-18 amplifiers, switching, Coanda effect, logic gates 1964 Dec p 80-88
flavoring, food additives, food coloring, food preservatives, agents, safety of additives 1972	Mar p 15-21	liquid supercooling nucleation cryogenics crystal growth, behavior of
flavors, essential oils, oleoresins, steam distillation, vacuum	distillation,	supercooled fluids 1965 Jan P 36 19
nerfumes 1953	Aug p 70-74	computer applications, computer modeling, scaling, wind tunnel,
flea jump, ectoparasites, insect cuticle, insect flight, flea resi	lin as	vortex, computer graphics 1965 Mar p 104-110 aerospace technology, Coanda effect, aerodynamics, propulsion,
elastomer 1973 Nov p	92–100 [1284]	nozzles, burners, nature and applications of Coanda effect
fleas, parasitism, host-parasite relationship, hormone, rabbi adaptation, the rabbit flea and rabbit hormones	iis, csiius,	1966 June p 84-92
1965 Dec p	44–53 [1027]	pipelines, oil, gas, slurries, history and technology of pipelines
Fleming, rectification, radio, thermionic tube, diode, electro	n tube ,	1967 Jan p 62-72 fluid impact, meteorites, cratering, projectile, impact crater, effect of high-
history of science, England, Edison, lamps, Defotest		speed impact 1960 Oct p 128–140
1909 1918	ar p 104–112 oni diode.	fluid inclusions, minerals, geology, Earth history, ancient fluids in crystals
Fleming valve, radio, triode, De Forest, vacuum tube, Marco rectification, De Forest's 1906 contributions 1965 M		1962 Oct p 38-47 [834]
rectification, De Poiest & 1900 confidence, topology,	delight and	fluidization, petroleum cracking, particle bed, turbulence, gas stream, food processing 1968 July p 94-104
depth of mathematics	c p 162–166	food processing 1968 July p 94–104 fluidized sand, quicksand, alkali bog 1953 June p 97–102
flexigation, mathematics, hexaflexagons, flexagon, topology,	delight and c p 162–166	fluorescence, thin-film optical devices, interferometry, wave motion, light
depth of mathematics	ırv	1 - 10- films, fatty acids 1970 Mar p 108-119
Flexner report, medical education, medical specialties, prima physicians, foreign medical graduates, medical research, 1973 Sep	medical care	high technology disease occupational health, phosphorus, chelation,
physicians, foreign medical graduates, 11973 Sep	t p 138–148	fluoridation, caries, dentistry, bacteriology, new theory of tooth decay
flies, bacteria, epidemiology, maggot, dysentery, virology, dis	sease vector July p 92–99	1948 Oct p 20–23
1903.	my p >2	teeth, enamel, dentin, metabolism 1953 June p 38-42

		1
public opinion, anti-scientific attitudes, vot	ing behavior	energy cycle, nitrogen fertilizer, nutnent cycle, soil structure, food chain 1976 Sept p 74-86
	1955 Feb p 35-39 [453] 1952 Oct p 38	agricultural history, animal domestication, archeology, plant
cavities down 47 per cent	1961 Jan p 79	domestication 1976 Sept. p 88–97
fluoridation politics USA fluoride, calcium held in bone and teeth	1967 Jan p 58	agricultural economics, agricultural system, cropping systems
fluorine, fluorocarbons, plastics, stable and pi		1976 Sept p 98–105
illuitile, fillorocarbons, plastics, stable and pr	1949 Nov p 44-47	agricultural economics, food processing, US agriculture, 'agribusiness'
elements, living matter, essential elements,	metallo-enzymes, silicon,	1976 Sept p 106-123
tin, vanadium, list of elements essential t	o life lengthened to 24	'green revolution', agronomy, maize, potatoes, Mexican agriculture
, ·	1972 July p 52-60	1976 Sept p 128–150
fluorine poisoning. Java man bone disease	1970 Apr p 48	'green revolution', India, technology transfer, monsoons, irrigation,
fluorocarbons, plastics, fluorine, stable and pr	romising compounds	fertilizers, rice, agronomy, wheat, hybrid crop plants
	1949 Nov p 44–47	1976 Sept p 154-163 agricultural resources, gene manipulation, irrigation, photosynthesis
in production	1951 Dec p 38 1956 Oct p 68	1976 Sept p 164–178
fortified by nitrogen flute, musical instruments, vibrating air colum		agronomy, crop yields, plant breeding, rice, wheat, maize, plant
English horn, saxophone, physics of the	wood winds	genetics 1976 Sept p 180–194
English horn, sunophone, p-5	1960 Oct p 144-154	developing countries, 'green revolution', technology transfer, economic
flux compression, high-pressure technology, t	magnetism, ultrastrong	development 1976 Sept p 196-205
magnetic fields, explosive compression,	ımplosion	world food production 1976 Sept p 66
_	1965 July p 64–73	Food and Agriculture Organization, see FAO
fluxtrap, superconductivity, low-temperature	physics, critical field	Food and Drug Administration, see F D A food chain, aleae, phytoplankton, kelp, algin, agar 1952 Dec p 15-17
strength, superconductive motor, superc	onductive bearing,	food chain, algae, phytoplankton, kelp, algin, agar 1952 Dec p 15-17 foodchain, human population ecology, population density, 'the human
superconductive amplifier, applications	1960 Mar p 74–82	crop' 1956 Apr p 105–112
fly ash, air pollution, catalysis, combustibility		blue whale, sonar, krill, whaling, natural history of the largest animal
fine particles	1950 Dec p 50–53	1956 Dec p 46-50
air pollution, corona discharge, electrocoa	ting, electrostatics,	plankton, krill, whale, Antarctic convergence, Euphausia superba
photocopying xerography, electrostatic	precipitation and seperation	1958 Jan p 84–89 [853]
	1972 Mar p 46-58	ecology, energy cycle, biomass, solar energy, element abundance,
flyball governor, feedback, control loop, serv	omechanisms, positive	autotrophs, heterotrophs, the ecosphere 1958 Apr p 83–92
feedback, negative feedback, ecological	system, nervous system,	Antarctica, oceanography, marine biology, krill, blue whale, ecology, Antarctic convergence, biological province of Antarctic convergence
economic system, automatic control, fee	1952 Sept p 48-55	1962 Sept p 186–210
control systems, feedback, water clock, the		DDT residues, insecticide, fallout, ecological cycles, ecological
automatic control, origins of feedback	control 1970 Oct p 110-118	redistribution of pollutants 1967 Mar p 24-31 [1066]
'flying spot' microscope, microscopy, ultravi	olet radiation, ultra-	predation, plant toxins, milkweed, blue jay, predator-prey relationship,
microscopy of living cells	1958 May p 38-43	mimicry, ecology, chemical defense against predation
flywheels, automobile propulsion, electric p		1969 Feb p 22–29 [1133]
storage, composite materials, materials	technology	sea, plankton, marine ecology, ocean, fish, marine life, life in the ocean
fog, cloud seeding, water cycle, air pollution	1973 Dec p 17-23	1969 Sept p 146-162 [884] ocean, fisheries, food supply, food resources of the ocean
inversion layer, smog	1968 Dec p 74-82 [876]	1969 Sept p 178–194 [886]
folic acid, metabolite antagonists, imitative		calcium metabolism, eggshell thinning, pollution, chorinated
aminobenzoic acid	1951 Apr p 60–63	hydrocarbons, DDT, dieldrin, avian reproduction, insecticide,
folklore, opossum, marsupial, natural histor	ry 1953 June p 88-94	ecological effect of pesticides 1970 Apr p 72–78 [1174]
follicle-stimulating hormone, ACTH, hormo		solar radiation, photosynthesis, biosphere, agricultural ecosystem,
growth, thyroid-stimulating hormone, estrogens, secondary sexual characteristics.		climax ecosystem, energy cycle, ecosystem, respiration, biosphere energy cycle 1970 Sept p 64-74 [1190]
endocrine system, chemical integrators		energy cycle, Eskimo, hunting societies, seal, power, Baffin Island,
	1957 Mar p 76-88 [1122]	ecosystem 1971 Sept p 104-115 [665]
'following bow' experiment, musical instrum	nents, string instruments,	forest communities, lichens, ecology, algae, nitrogen cycle, treetop
Raman waves, 'wolf' note, physics of b		ecosystems 1973 June p 74–80 [1274]
Folgon was New W. 11 . shades as as	1974 Jan p 87–95	biological wax, copepod lipids, coral reef wax, marine wax, metabolic
Folsom man, New World archeology, stone	1951 Feb p 15–19	fuel 1975 Mar p 76-86 [1318] energy cycle, nitrogen fertilizer, nutrient cycle, soil structure, food and
nb found	1953 Apr p 52	agriculture 1976 Sept p 74–86
antedated	1954 Sept p 76	food coloring, flavoring, food additives, food preservatives, texture agents,
Folsom points, Clovis culture, hunting, mai		safety of additives 1972 Mar p. 15-21
World archeology, elephant extinction		food gathering, hunting, herding, tribal cultures, agricultural society.
food, marine biology, human nutrition foo		aboriginal culture, India, 'living prehistory' in India
snail, Helix pomatia, natural history	1949 Oct p 16-19 1957 Aug p 113-118	1967 Feb p 104-114 food plants, botanical collections, herbanum resources, pharmacology
fisheries, aquaculture, proteins, tilapia, p	oond culture	1977 May p 96–104 [1359]
	1963 May p 143~152	food poisoning, leftover Hollandaise 1951 Apr p 37
food additives, flavoring, food coloring, foo		1000 preservation, hypobaric storage 1976 June n. 54
safety of additives agene, flour bleach banned	1972 Mar p 15–21	1000 preservatives, flavoring, food additives, food coloring, texture
carcinogenic additives	1949 Jan p 28 1956 Oct p 68	agents, safety of additives 1972 Mar p 15-21
Delaney clause in USA legislation	1960 May p. 89	food processing, fluidization, petroleum cracking, particle bed, turbulence, gas stream 1968 July p. 24-104
food and agriculture, economic developme	ent, 'green revolution', hunger	agricultural economics food and agriculture, US agriculture,
population, introduction to single-top	pic issue on food and	agribusiness' 1076 Cent p. 106, 122
agriculture developing countries poverty, hunger, r	1976 Sept p 30–39	rood production, numan nutrition, population. UN technical agencies
	1976 Sept p 40_49	1950 Aug p 11–15
amino-acid deficiencies dietary require	ments, human nutrition.	argae, Cinorcia 1052 O-4 = 21 26
metabolism	1976 Sept p 50-64	birth control population growth, Malthusian doctrine, developing countries Julian Huxley on world population growth
	-	
		1956 Mar p 64-76 [616]

radiation

economic development, agricultural technology, technology transfer,	
hum in nutrition, nutrition il self-sufficiency in economic	forest fire, ecology, fire, forestry, grassland, role of fire in climax ecology
Gevelopment 1963 Sent in 77 skilling	1961 Apr n 150-160/1/0001
economic development, industrialization, population control	The state of the s
agricultural production, technology transfer, economic planning	resource prospecting, economic planning, mineral resources, electric
India, economic development by democratic planning	power, the Amazon frontier 1948 May p 11-14
1963 Sept. p. 189-20	forest products, cellulose, rayon, crystal structure, lignin, polymers, paper,
plant growth, fertilizers, chemical industry, agricultural technology	1 mocs, everytew of mitural polymer 1937 Sept b 136-168
increasing world food supply 1965 June n 62-7	wextd pulp, paper, cellulose, lignin, rayon, waste recycling, kraft process 1974 Apr. p. 52-62
proteins, petroleum, petroleum fermentation 1965 Oct p. 13-1	7 forest succession, ecology, trees, leaf distribution
agricultural technology, poultry production, animal husbandry,	1075 Max n 90_0x [137]]
Chicken, eggs, U.S. chicken factories 1966 July n. 56-6	forestry, spruce, climax ecosystem, balsam, birch, climax forest of
plant hybrids, wheat, hybrid wheat, agronomy 1969 May p 21-2	9 Northeast U.S 1948 Nov. p. 20-23
human population fertilizers, pollution, irrigation, biosphere,	oak blight, fungi, threat to US oak population 1957 May p 112-122
agricultural revolution, soil crosion, biosphere capacity to produce	ecology, fire, grassland, forest fire, role of fire in climax ecology
food sharing, chimpanzee, hunting, carnivorous chimpanzees, omnisorous	
chimpanzees, feeding behavior, Gombe National Park, Tanzania	
1973 Jan p 32-42 [382	U S Western states 1970 Feb p 88–96 [1169]
food supply, kwashiorkor, malnutrition, diet, human nutrition	nitrogen fixation, ecosystem, resource management, runoff, étosion, watershed, deforestation, deforestation experiment
1954 Dec p 46-50	1970 Oct p 92-101 [1202]
deer, hunting, population control 1955 Nov. p. 101-109	resource management, gene manipulation, grafting techniques.
mouse, population control, animal migration 1955 Dec. p. 92-100	Southern pine, tree farming, seed-orchard concept
mainutrition, human population, hunger, human nutrition, Incaparina,	1971 Nov p 94-103
eland, capybara, manatee, mussels, developing countries,	chemotherapy for blister rust 1961 Jan p 86
unorthodox food sources 1967 Feb p 27-35 [1068]	forgetting, learning, memory, proactive and retroactive interference
ocean, food chain, fisheries, food resources of the ocean	1964 Mar p 91-99 [482]
1969 Sept. p. 178–194 [886]	
land reform, agricultural technology, population growth, FAO, human nutrition, FAO Indicative World Plan	theory 1967 Oct p 117-124 [209] forging, crystal structure, dislocations, metal forming, strain hardening
1970 Aug p 54-69 [1186]	creep in metals 1975 Apr p 116-125
fisheries, marine farming, sea-water nutrients, upwelling fishponds	form. Thompson, growth, science history, life and work of D'Arc)
1970 Dec p 14-21 [1205]	Thompson 1952 Aug p 60-60
human nutrition, population control, world food bank, human	form perception, vision, color perception, role of experience in visual
population, agricultural production 1974 Sept. p. 160-170	perception 1949 Aug p 52-55
food supply for U.S., a Malthusian forecast 1952 Aug p 32	visual perception, learning, perception, innate or learned form perception 1961 May p 66-72 [459]
foodchain, eelgrass, marine ecology, ecology, fungal infection, account of an ecological catastrophe 1951 Jan p 52-55	discoverted figures, retinal operation, visual perception
food chain, human population, ecology, population density, 'the	1974 Jan p 78–83 [33/1
human crop' 1956 Apr p 105-112	formalism infinitesimals mathematical logic Platonism real-number
foodsharing, hominid, Olduvai Gorge, toolmakers, human evolution,	line 1971 Aug p 32-77
evolution of behavior, evidence for protohuman behavior in two-	formy Imethionine, amino acids, protein synthesis, ribosome, mRNA, tRNA, initiation of protein synthesis 1968 Jan p 36-42 [1092]
million-year-old sites 1978 Apr p 90-108 [706]	tRNA, initiation of protein synthesis 1968 Jan p 36-42 [1072] fornix, electrostimulation of formx 1956 June p 35
footracing, sports, human physiology, athletics, psychology, metabolism, running records, Aesop principle 1976 June p 109-119	Fort Monmouth, loyalty and security, McCarthy, US Army, Scientists'
forage crops, agricultural economics, grasses, agronomy, hay, legumes,	Committee on Lovalty and Security report on Nighal COIDS
livestock feed, ruminants, silage, Rhizobium bacteria	Engineering Laboratory 1954 June p 27-31
1976 Feb p 60-75	fortification illusions, migraine headaches, neurophysiology, optical illusion 1971 May p 88-96 [536]
foraminifera, oxygen isotopes, temperature measurement, abyssal	illusion 1971 May p 80-70 [250]
sediments, paleontology, glaciation, climatic change, measurement	fossil, coal, flora, Mississippian period, Pennsylvanian period, Carboniferous period, tropical flora, deposition of coal
of ancient temperatures 1958 Feb p 54-63 micropaleontology, ocean floor, climate history recorded in ocean	1948 July p 46-51
sediments 1962 July p 96–106 [856]	aming acids hone mollick shells nalegatology nalegatochemistry
help date start of Pleistocene 1963 Mar p 76	1956 July p 83–92 [104]
force-free windings, electromagnetism, magnetism, magnetic field, million	Neopilina galatheae 1957 Sept p 114
gauss field 1958 Feb p 28-33	fossil cells, bacteria, blue-green algae, evolution, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils
foreign aid, technology transfer, developing countries, technical	of me, Freeding talk rocks, prokaryone cens, oldest rossis 1971 May p 30-42 [395]
assistance, human population 1974 Sept p 172-182 foreign medical graduates, Flexner report, medical education, medical	forcil croter Chubb crater metapritic impact cratering astroblemes
angulare primary physicians medical research, medical care	1951 May p 64-07
19/3 Sept p 130-140	meteorite craters, cratering, fossil craters in Canadian Shield 1958 July p 32-39
forensic chemistry, police laboratory, crime detection	fossil fauna, Antarctica, fossil flora, peology, paleontology, Glossoptens,
1933 Feb p 50	coal, continental drift evidence 1962 Sept. p. 168-184 [803]
1962 Aug p 56	fossil fish, coelocanth, evolution, land animals 1955 Dec. p. 34–39 [831]
Napoleon Bonaparte autopsy	first coelocanth 1953 Feb p 36 six coelocanths 1954 Nov p 56
forensic psychiatry, loyalty and security, technique 1950 Mar p 29	six coelocanths 1954 Nov p 30 90 lb coelocanth 1955 July p 54
forest, hickory, fences, axe-handles, smoked ham, hickory nuts, economic 1948 Sept p 40-43	fossil flora. Antarctica, fossil fauna, geology, paleontology, Glossopteris,
forest, hickory, fences, axe-namics, shocked had botany, natural history, shagbark hickory 1948 Sept p 40-43 botany, natural history, shagbark hickory 1948 Sept p 40-43	coal, continental drift evidence 1962 Sept p 168-184 [863]
energy cycle, ecosystem, partitioning of chergy mar p 92-103 [1384]	fossil algae and fungae two billion years old fossil fuels, fossil fuels, Athabaska tar sands 1949 May p 52-55
tood chain nitrogen cycle,	fossil fuel, fossil fuels, Athabaska tar sands 1949 May p 52-55 petroleum reserves, coal reserves, energy consumption, liquid-fuel
forest communities, hehens, ecology, argae, food in 1973 June p 74–80 [1274] treetop ecosystems	consumption, shale, tar sands, coal liquefaction, the fuel problem
forest ecosystem, X-ray, gamma radiation, with other of high-energy	1949 Dec p 32-39
forest ecosystem, X-ray, gamma radiation, white effects of high-energy weeds, environmental pollution, ecological effects of high-energy 1963 June p 40-49 [159]	coal, underground gasification of coal 1950 June p 52-55

oil shales, shale rotors, mining, energy resources, oil from shales	four-color-map problem, topology, inner-tube eversion, Möbius band,
1952 Feb p 15–19	Klein bottle, trefoil knot, Koenigsberg bridges, three-cottages problem 1950 Jan p 18-24
coal, chemical raw material, coking, 'water gas' process, hydrogenation 1955 July p 58-67	problem 1950 Jan p 18-24 mathematical proof, foundations of mathematics, proof by computer
coal, energy resources, natural gas, oil reserves, energy economics,	1977 Oct p 108–121 [387]
impending petroleum shortage 1956 Oct p 43-49	proof by computer 1976 Oct p 57 Fourier analysis, electroencephalography, brain waves, alpha rhythms,
climate, carbon dioxide 'window', meteorology, air pollution, threat of 'greenhouse effect' 1959 July p 41-47 [823]	medical diagnosis, toposcope display, automata theory
fission reactor, energy demand, electric power, nuclear power, energy	1954 June p 54-63
economics, history and prospects of nuclear power in US	Bragg's law, X-ray crystallography, atomic structure, crystal structure,
1968 Feb p 21–31	X-ray diffraction 1968 July p 58–70 [325] spectroscopy, Fraunhofer lines, prism, light, diffraction grating, Girard
energy consumption, energy resources, fission fuels, power, fusion fuels, geothermal energy, solar energy, tidal energy	grid, interferometry 1968 Sept p 72–82
1971 Sept p 60–70 [663]	fovea, vision, eye movement, saccades, visual attention, human eye, visual
energy conservation, nuclear power, solar energy, synthetic fuels,	fixation, experiments with eye-marker camera
energy policy of U S 1974 Jan p 20–29 [684]	1968 Aug p 88–95 [516]
coal technology, technology history, Industrial Revolution, 16th c energy crisis, wood-fuel shortage 1977 Nov p 140–151 [391]	color blindness, cone cells, genetic disease, retinal image-processing visual pigments 1975 Mar p 64-74 [1317]
energy crisis, wood-fuel shortage 1977 Nov p 140-151 [391] coal, underground gasification of coal 1948 Aug p 23	fowl, animal behavior, incubator birds, eggs, chicken, ornithology,
in finite supply 1949 Apr p 26	hatching eggs in hot places 1959 Aug p 52-58
fossil fuel combustion, calcium carbonate, carbon cycle, sedimentary rock,	foxglove, digitalis, heart physiology, dropsy, digitoxin, cardiac
photosynthesis, biosphere, atmosphere, carbon dioxide	insufficiency, history of digitalis 1965 June p 110–119 fractionation, chromatography, paper chromatography, amino-acid
1970 Sept p 125–132 [1193] fossil fuel cycle, energy demand, thermal pollution, Industrial Revolution,	separation 1951 Mar p 35–41
biosphere, energy technology, carbon dioxide, industrial emissions,	ultracentrifuge, molecular weight, sedimentation, oil drive, air drive
modification of natural cycles by man 1970 Sept p 174-190 [1197]	magnetic suspension, 900,000 g, 60 million r p m
fossil fuels, fossil fuel, Athabaska tar sands 1949 May p 52–55	1951 June p 42–51 fracture zones, ocean floor, Pacific Ocean, Mendocino escarpment,
fossil hominid brains, African hominids, brain evolution, hominid, human brain, pongid brains, endocranial casts 1974 July p 106–115 [686]	seamounts, Earth mantle convection 1955 July p 36–41
fossil men, human evolution, Homo erectus, Java man, Peking man,	fragment assembly, RNA, nucleic acid, nucleotide sequence, alanine,
Homo erectus in family tree of H sapiens 1966 Nov p 46-53 [630]	tRNA, enzyme cleavage, first nucleotide sequence
fossil primates, anthropoid, primate evolution, hominoid, early relatives of man 1964 July p 50-62 [622]	1966 Feb p 30–39 [1033] frames of reference, gravity, inertia, Galilean relativity, Einstein,
primate evolution, hominoid, apes, man-apes, Fayum,	philosophy of science, relativity, identity of inertia and gravity
Aegyptopithecus, Oligocene ancestor of hominoids	1957 Feb p 99–109
1967 Dec p 28–35 [636]	frankincense, Arabia irrigation, trade, Near East, myrrh, Biblical
apes, human evolution, population genetics, genetic variation 1972 Jan p 94-103 [676]	archeology, cultures of southern Arabia 1969 Dec p 36-46 [653] Franklin, science history, sentry-box experiment, electrical nature of
fossil reactor, in Gabon 1975 June p 41	lightning, 'electrical fluid', Benjamin Franklin, life and work
fossil record, coelenterata, precambrian animals, life 500 million years	1948 Aug p 36-43
before present 1961 Mar p 72-78 [837] species extinction, natural selection, glaciation, 'catastrophism', crises	Frasch process, sulfur, sulfuric acid, agricultural technology, sulfur demand-and-supply production 1970 May p 62-72
in the history of life 1963 Feb p 76-92 [867]	fraternal twins, twins, identical twins, ovulation, estrin, physiology of
evolution, Infra-Cambrian Ice Age, glaciation, continental drift,	twinning 1951 Jan p 48-51
paleomagnetism 1964 Aug p 28–36 organic molecules, sedimentary rock, gas chromatography, chlorophyll,	Fraunhofer lines, spectroscopy, prism, light, Fourier analysis, diffraction grating, Girard grid, interferometry 1968 Sept p 72–82
hydrocarbons, 'chemical fossils' 1967 Jan p 32-43 [308]	free-electron density, light velocity, radiowave, phase velocity, plasma.
locomotion, walking, primates, human evolution, bipedal walking,	'things that go faster than light' 1960 July p 142–152
muscle, bone, origin of human walking 1967 Apr p 56-66 [1070] species dispersion, continental drift, evolution, plate tectonics	free-electron laser, tunable laser 1977 June p 62 free fall, falling-body velocity, Galileo, Merton rule, science history
1972 Nov p 56–66 [903]	1973 May p 84–92
evaporite minerals, Glomar Challenger findings, Miocene desiccation,	Galileo's experiments, terminal velocity, gravity, acceleration of gravity
salt, Mediterranean as desert 1972 Dec p 26-36 [904] fossil reefs, algae, coral, coral rings, paleontology, climatic change, dating	1975 Mar p 102–111
by coral rings 1966 Oct p 26–33 [871]	free radicals, ionizing radiation photoelectric effect, Compton effect,
climatic change, coral reefs energy cycle, manne ecosystems, reef	chemical effects, cytology, lethal effects of radiation
evolution 1972 June p 54-65 [901] fossil river, Teays river, Kanawha river 1952 June p 74-80	1951 Dec p 22–25
fossil tracks, animal behavior, evolution, fossil animal tracks, burrows	chain reaction, chain initiators, half-life reaction kinetics 1953 Dec p 74-78
1967 Aug p 72-80 [872]	cryogenics, frozen free radicals, free radicals trapped for study
'fossil' water, irrigation ground water, artesian well, agricultural technology, Sahara desert water resource management, land	1957 Mar p. 90–102 (263)
reclamation, intercalary water, making desert fertile	ionizing radiation, polymerization, organic chemistry, ionizing radiation in industrial chemistry 1959 Sept p 180-196
1966 May p 21-29	photolysis photochemistry, chemical reaction, reaction kinetics
foundations of mathematics, geometry, intuition, Hans Hahn on geometry and intuition 1954 Apr. p. 84-91	spectroscopy, color centers, high speed chemistry
and intuition 1954 Apr p 84-91 mathematical proof, mathematical philosophy, set theory	catalysis corona discharge ozone national state of the st
1964 Sept p 112-127	catalysis corona discharge, ozone, polymerization, corona chemistry, water purification, hydrocarbon cracking 1965 June p 90–98
four-color-map problem mathematical proof, proof by computer 1977 Oct p 108-121 [387]	aging, radiation damage, electron-spin resonance, chemical bond
foundling institutions, birth control celibacy, disease, infanticide	spectroscopy, effects of free radicals on living systems
Malthusian doctrine, marriage age, population growth, population	trapped for study 1970 Aug p 70–83 [335] 1955 Jan p 48
control in Europe 1750-1850 1972 Feb p 92-99 [674] fountain effect, helium supercooling superfluidity, neutron scattering.	solidified and stored radicals
'quasi particles' model of liquid helium 1960 Nov p 138–150 [272]	formation in photosynthesis freedom of expression, communication, civil rights, U S First
	Amendment 1972 Sept p 163–172 [680]
	1772 Sept p 103-172 [680]

freedom of science, science funding, science policy, university science, creativity, conditions favoring advance in science	energy transformation, energy demand, fuel-conversion efficiency,
freeze, accelerated by glycerol 1958 Sept. p. 170-17	The state of the s
Frenquel, psychoactive drugs, tranquilizers, chlorpromazine, reserpine	power, comparative efficiencies of energy transformation pathways in industrial civilization 1971 Sept. p. 148–160 [668]
frequency modulation, radio, communication, Armstrong, life and work of Fdwin H. Armstrong 1954 Apr. p. 64-6	energy resources, hydrogen, electrolyzer technology, hydrogen-energy
frequency response, control systems, automatic control	coal-burning 1952 Oct p 40
servomechanisms, actuators, pneum itie servomechanisms, hydraulie servomechanisms, control systems 1952 Sept. p. 56-6	industrialization, population, energy resources, energy requirements
control theory, mathematics, expernetics, computer programming	and resources for economic development 1963 Sept p 110-126 automobiles, energy conservation, engine efficiency
feedback, stability, dynamic programming, 'policy' concept 1964 Sept. p. 186-200	1975 Ian p 34-44
Freshel rings, Moire patterns, optics without lens, properties and uses	fuel-conversion efficiency, energy transformation, energy demand power,
Freud, psychoanalysis, dreams 1963 May p 54-63 [299 1949 May p 44-47 [495	prime movers, steam turbines, magnetohydrodynamics gas turbine, internal combustion engine, fuel cell, solar cells, power, nuclear
psychoanalysis, biography and appraisal of Sigmund Freud at \$2 1949 Oct. p. 50-54	power, comparative efficiencies of energy transformation pathways
friction, Leonardo, Coulomb, technology history, sliding surfaces,	fuel-element fabrication, 'atoms for peace', nuclear power, nuclear fuel,
stick-slip friction, bearing, violin bow, lubrication, uses and prevention	uranium ore, Geneva chemistry 1955 Oct p 34-37 fuel imports, energy resources, liquid natural gas technology assessment,
of friction 1956 May p 109-118 bearing, mechanical engineering, lubrication, sliding rolling.	risk estimation, tankers, LNG 1977 Apr p 22-29
pressurized-contactless bearings 1966 Mar p 60-71	
perpetual motion machines, entropy, thermodynamics 1968 Jan p 114-122	fundamental reasoning, probability, statistics, mathematical proof, fundamental research, What is probability? 1953 Sept. p. 128-138
bearing, gears, technology history, Leonardo, Codex Madrid I 1971 Feb. p. 100-110	fundamental research, NSF, science funding, university research.
Beilby layer, ferrograph analysis, lubrication, michine wear, metal	curiosity, science funding, 'mission-oriented' funding agencies
fatigue, particles of wear, wear 1974 May p 88-97 bearing, lubrication, journal bearing, wear 1975 July p 50-64	university science, N.S.F., introduction to a single-topic issue on fundamental questions in science 1953 Sept. p. 47-51
frog, salamander, regeneration, embryonic development, nerve fibers, role	matter, wave-particle duality, energy levels, electromagnetic force, nuclear forces, gravitation, field theory, quantum jumps, corpuscular
tadpole, thyroid hormone, amphibian metamorphosis, chemistry of	streams what is matter? 1953 Sept p 52-57 [241]
amphibian metamorphosis 1963 Nov p 110-118 [170] amphibian, color vision, retina, retinal image-processing, visual	electromagnetic force, nuclear forces, proton, neutron, mesons, particle scattering, high-energy physics, what holds the nucleus together?
perception, retinal processing of visual sensation 1964 Mar p 110-119	1953 Sept p 58-63 cosmic radiation, massive nuclei, high-energy physics, Milky Way.
amphibian, metamorphosis, thyroxin, pituitary gland, hypothalamus,	magnetic field, particle acceleration, supernovae, where do cosmic
neurosecretory system, hormone, chemistry of amphibian metamorphosis 1966 May p 76-88 [1042]	stellar populations, stellar evolution, galactic rotation, galactic
frog calls, sound spectrogram 1950 May p 46-47 frog eggs, genetic engineering, gene expression, hemoglobin, mRNA,	evolution, Why do galaxies have spiral form? 1953 Sept p 89-99 embryonic development, cell differentiation, embryological 'organizer',
RNA molecule 1976 Aug p 60–71 [1343]	Cartesian diver, How do cells differentiate? 1953 Sept p 108-116 memory, brain, learning, cerebral cortex, What is memory?
frog embry o, cell differentiation, nucleus transplantation, clone, genetic engineering, somatic cell nucleus, gene complement, gene regulation	1953 Sept p 118–120 (111
1968 Dec p 24-35 [1128] frontier history, cavalry, Mongol conquests, war, Chingis Khan, nomatic	probability, statistics, mathematical proof, fundamental reasoning What is probability? 1953 Sept p 128-138
civilization, Chingis Khan, biography 1963 Aug p 54-68 frontier life, Britain, Roman Britain, Hadrian's Wall, Vindolanda site	N S F, science funding university science 1954 Mar p 25-33
1977 Feb p 39-46 [692]	institutional grants, science policy, project grants, university science, problems in government support of science in the US
frost, ice, snow, water, supercooling, condensation nuclei, ice worms, how water freezes 1959 Feb p 114-122	1965 July p 19-25
frostbite, capillary bed, rapid thawing prescribed 1952 Feb p 52-56 cryogenic storage, spermatozoon bank, ussue preservation, freezing of	funerary monument, archeology, Nemrud Dagh, burial site Turkey, tomb of Antiochus I 1956 July p 38-44
living cells 1956 June p 105-114	fungal hyphae, rain-forest ecosystem, slash-burn agriculture, ecological fragility, tropical rain forest 1973 Dec p 58-67 [1286]
frozen free radicals. Jupiter, imine radical, hydrazine radical, low	fungal infection, histoplasmosis, respiratory infection, airborne infection epidemiology, coccidioidomycosis 1948 June p 12–15
temperature physics modelling of Jupiter 1990 June p 119 120	eelgrass, marine ecology, foodchain, ecology, account of an ecological
1957 Mai p 30-102 (2003)	potato blight, plant genetics, late-blight of potatoes
fruit fly, gene mutation, insect eye, paper chromatography, machine 1062 Apr. p. 100-110 [1166]	1959 May p 100-112 [109] disease-resistant plants, plant breeding, agronomy, plant disease, plant
the fruit fly cell culture, cell differentiation, larvae, transdetermination 1968 Nov p 110-120 [1127]	pathogens, sugarcane, mechanism of disease resistance in plants 1975 Jan p 80-88 [1313]
sexual behavior, releaser stimulus, courtship song, insect behavior,	fungi, mycology, wheat rust, ergot, potato blight, morel, amanita, Penicillium notatum, yeast, molds and men
species specificity	1952 Jan p 28-32 [115] wheat, einkorn, wild einkorn, emmer, hybrid cells, chromosome
1954 May p 40-44 [118]	doubling plant breeding, origin and perfection of wheat 1953 July p 50-59
fuel cell, battery, electric power generation, energy transformer	mushrooms, plant growth mycelium, burgeoning explained 1956 May p 97-106
energy economics, direct conversion chemical to 1959 Oct p 72–78	oak blight forestry, threat to U S oak population 1957 May p 112-122
	1757 May p 112-122

carnivorous plants, soil molds, nematodes, carnivorou	s fungi	Clouds of Magellan, nebulae, globular cluster stars	s, Southern sky, Eta
1958 July p 67–72 [1094]		Carina, astronomical riches of the southern sky 1952 July p 46-57 Milky Way, quasars, radio source, Sagittarius A, Seyfert galaxies, spiral	
algae, lichens, symbiosis, desert ecology, polar ecology nature of lichens 1959 Oct	p 144–156 [111]	galaxies	1974 Apr p 66-77
algae, lichens, symbiosis, fungi as symbionts in lichens		infrared observation	1967 June p 52
1963	3 Feb p 122–132	galactic clusters, turbulence, nebulae, galaxies, luerar	
orchids, symbiosis, mycorrhiza, plant evolution, adap	tation, adaptive	space supergalaxy, Milky Way, local clusters	1952 June p 26–30 1954 July p 30–35
	966 Jan p 70–78	astronomy, philosophy of science, universe, planet	
insect behavior, fungus gardens, mutualism, insect-fun	p 112–120 [1086]	system, cosmology, introduction to single-topic	
bacteria, ectoparasites, skin, lice, hair, human skin ecc	osystem		1956 Sept p 72-81
1969 Jan	p 108–115 [1132]	radio astronomy, colliding galaxies, powerful signa	
mushrooms, mushroom poisoning, toxins, Amanita p	halloides, thioctic	of astronomy l cosmology, red shift, universe expansion, universe,	.956 Sept p 125–134
acid 19 ungus gardens, fungi, insect behavior, mutualism, insec	75 Mar p 90–101	galaxies, recession velocity, observational cosmo	
1967 Nov	p 112–120 [1086]		Sept p 170-182 [240]
ur, circulatory system, thermoregulation, cold adaptati	on, metabolism,	probability, universe, gravitation, cosmology, Mon	
insulation 1966 Jan	i p 94–101 [1032]	distribution of galaxies as test of cosmologies 1 galactic evolution, universe, irregular galaxies, irre	
urnace, fire-making, human evolution, fire vegetation, revolution, kiln, heat, introduction to single-topic i	cooking, Neomine	clues to galactic evolution	1961 Feb p 50–57
levolution, kim, neat, introduction to single topic i	954 Sept p 52-57	Andromeda Galaxy, local clusters, M81 cluster, Vi	
fusion reactor, nuclear power, astron technology	1958 Oct p 53		7 Nov p 76–98 [390]
fusion bomb, see hydrogen bomb, atomic bomb	6 1	Milky Way belongs to one	1953 Dec p 54
fusion fuels, energy consumption, energy resources, fiss	ion fuels, power,	galactic collision, radio star, Crab Nebula, supernova 200 radio stars counted, some speculation on the	
fossil fuel, geothermal energy, solar energy, tidal en	ept p 60–70 [663]	200 facto stars counted, some speculation on the	1953 Jan p 17–21
fusion reactor, nuclear power, 'atoms for peace', thermo		galactic dust clouds, galaxy structure, interstellar mat	
fission reactor, CER.N, first of a four-part repor	t on the	stellar formation, supernovae, nebulae, Gum Ne	:
International Conference on the Peaceful Uses of	Atomic Energy, 1955 Oct p 27–33	galactic energetics, black hole, binary stars, globular	1972 Aug p 48-61
Geneva, August 1945 nuclear power, magnetohydrodynamics, plasma cont	ainment pinch	stars, stellar evolution, X-ray stars, astronomy s	
effect, thermonuclear reaction, thermonuclear ene	rgy for domestic	197	7 Oct p 42-55 [385]
power 1957 I	Dec p 73–84 [236]	galactic evolution, Palomar Observatory, cosmology,	
nuclear power, magnetic bottle, plasma confinement	, deuterium, 1958 Oct p 28–35	populations, interstellar matter, Hale telescope, inch telescope	1952 Feb p 43-51
tritium, magnetic pumping, stellerator nuclear power, plasma confinement, magnetic bottle		stellar populations, stellar evolution, galactic rotat	
plasma physics	1966 Dec p 21–31	research, Why do galaxies have spiral form?	1953 Sept p 89-99
magnetic field, plasma instability, thermonuclear rea	iction, magnetic	cosmology, universe expansion, Olber's paradox, v	
bottle, anomalous diffusion, nuclear power, leakage	ge of plasma 1967 July p 76–88	of space, red shift, evolutionary universe, elemen	1954 Mar p 54-63
nuclear power, recycling, materials, fusion torch, end		gravitational collapse, barred galaxy, spiral galaxie	
transformation, plasma containment, magnetohyo	irodynamics	evolution from taxonomy 1	956 Sept p 100-108
1971	Feb p 50-64 [340]	Cepheid variable, 'cosmic yardstick', universe evol	
laser-pulse fusion, plasma physics, nuclear power nuclear power, plasma confinement, Tokomak, mag	netic bottle	umverse, irregular galaxies, galactic clusters, irregu	1959 July p 48–55
	1972 July p 65–75	to galactic evolution	1961 Feb p 50–57
laser implosion, nuclear power, nuclear power, there	nonuclear reaction,	spiral galaxies, elliptical galaxies, origin and histor	y from shape
plasma confinement research at Los Alamos	1974 June p 24-37 1949 May p 29	interstellar hydrogen, microwaves, radio astronom	1963 Jan p 70–84
Argentine tall tale	1951 May p 32		1963 June p 94–106
Project Sherwood	1955 Nov p 54	gravity, red shift, gravitational instability, primord	lial fireball,
magnetic 'pinch effect'	1956 Feb p 54	nonuniformities, protogalaxies, origin of galaxie	
research in USSR. nuclear power, thermonuclear power potential	1956 June p 58 1956 Oct p 68	seen forming	1970 June p 26–35
progress report	1956 Nov p 60	see also dust cloud hypothesis	1976 May p 54
zero-energy thermonuclear assembly (ZETA) 'Per		galactic formation, comet, nebular hypothesis, solar s	ystem evolution,
US program	1958 Mar p 50 1958 June p 45	stellar evolution	1975 Sept p 32-41
Geneva conference on thermonuclear research	1958 Nov p 52	galactic halo, cosmic radiation, radio galaxies, quasai radio source, extragalactic radio source as origin	S, radio astronomy,
nuclear power, fusion reactor technology	1960 Nov p 100		1966 Aug. p 32-38
progress at Livermore	1960 Dec p 82	cosmic radiation, cosmic ray showers, supernovae,	synchrotron
U S version of Tokamak proton-boron fuel cycle	1970 Mar p 60 1973 Nov p 48	radiation, particle acceleration, abundance, ener cosmic rays	gies, sources of
fusion torch, nuclear power, recycling, materials, fusion	n reactor, energy	galactic interactions, galaxy shapes, intergalactic tide	1969 Feb p 50–63
transformation, plasma containment, magnetohy		dynamics, intergalactic bridges	1973 Dec n 38 48
1971	Feb p 50-64 [340]	galactic magnetism, cosmic radiation, supernovae, co	smic ray showers,
		evidence for particles of 10 ¹⁵ ev energy 1 cosmic radiation, solar particles, geomagnetism, ga	959 Nov p 134–146
Ģ		theory	1960 June n 64 71
O		Faraday rotation, starlight polarization, spiral gala	Kies spiral arme
g factor, antimatter, electron, magnetic moment, elec-	tron spin, positron.	stiffening of spiral arms by Milky Way magnetic	e field
magnetic bottle	1968 Jan n 72-85	measurement based on Zeeman effect	1965 June p 46-54 1960 Nov p 94
g-forces, space medicine, acceleration, weightlessness canals, black-out	, semicircular 1951 Jan p 16-19	magnetic fields	1064 1.1 46
galactic center, Milky Way, nebulae, globular cluster	stars, spiral arms,	galactic nucleus, spiral structure, interstellar hydroge, galaxy, mapping the local Galaxy 1959	n, radio astronomy.
dust clouds, seeing a galaxy from the inside	1950 Feb p 30-39	quasars, Seyfert galaxies, radio emission	Aug p 44-51 [250]
			1969 Jan p 28-37

galactic radiation, gravitational waves, gravitational-radiation detector,	Jupiter Joseph ratellitas references To C. B. C. B.
1071 14	Jupiter, Joyian satellites, solar system, Europa, Callisto, Ganymede Io 1976 May p. 103-116
galactic radio sources, radio astronomy, radio galaxies	Galife o's experiments, free fall, terminal velocity, gravity, acceleration of
galactic recession, cosmology, red shift, element abundance, 'synthetic'	35 gravity 1975 Mar p 102-111 time-keeping, gravitational acceleration, music as time measure
cientents, universe expansion 1018 July p. 20	1975 June p. 98–104
astronomy, galaxies, red shift, universe expansion, science, stellar evolution, general relativity, astronomy 1900-1950	Galileo's heresy, Bruno, science history, Copernican revolution
1950 Sept. p. 24	martyrdom of Giordano Bruno re-examined 1973 Apr p 86-94 Gableo's sexton, abacus, calculating machine, mechanical calculators
galactic rotation, stellar populations stell ir evolution, galactic evolution fundamental research. Why do galaxies have spiral form?	• Slide rule, sexton 1976 Apr p 104-113
1953 Sept. p. 89-6	Galley Hill skull, Homo sapiens Neanderthal man, Charente skull, human evolution, Swanscombe cranium, antiquity of Homo sapiens
Andromeda Galaxy 1973 June p. 30.	36 1948 July p 16-19
galactic structure. Clouds of Magell in, spiral galaxies, radio astronomy, resolution of structure of nearest galaxies 1956 Apr. p. 52-5	gallium arsenide, electric field. Gunn effect, microwave emission, negative
stellar populations, spiral arms, stellar classification and structure of	generation 1966 Aug. p. 22-31
galaxies 1958 Nov. p. 44-50 [20] galactic survey, Palomar Observatory, Hale telescope, Schmidt telescope	gallstones, crystal structure, lithiasis, kidney calculi, X-ray diffraction,
cosmology, 200-inch and 48-inch Palomar telescopes	bladder stones, unnary calculi 1968 Dec p 104-111 Galton, correlation theory, eugenics, dermatoglyphics, life and work of
1948 Aug p 12-1	7 Francis Galton, regression to mean 1954 Jan p 72–76
galactic yardstick, universe expansion, Cepheid variable, Clouds of Magellan, Andromed i Galaxy, doubling of yardstick doubles size	Galvani, animal electricity, voltaic pile, a major discovery in physics as
and age of the universe 1953 June p. 56-6	well as biology 1950 Feb p 40-43 battery, electrochemistry, electric power, Volta, Volta's contributions
spectroscopy, stellar distances, calcium absorption lines supply new	biography 1965 Jan p 82-91
'yardstick' 1961 Jan p 107-11 Galapagos Islands, Darwin's finches, speciation, evolution	galvanic cell, pH, glass electrode, hydrogen ions, acidity 1951 Jan p 40-43
1953 Apr. p 66–72 [22	
galaxies, astronomy, red shift, galactic recession, universe expansion, science, stellar evolution, general relativity, astronomy 1900-1950	Leduc effect, thermomagnetism, science history, industrial
1950 Sept p 24-27	technology, technological applications of 19th c discoveries 1961 Dec p 124-136
turbulence, nebulae, galactic clusters, hierarchy of turbulence in space	gambler's fallacy, probability, law of large numbers, random walk,
1952 June p 26-30 cosmology, red shift, universe expansion, universe, spectroscopy,	mathematical proof, philosophy of science 1950 Oct p 44-47 gambling, psychology, probability, decision making, subjective
recession velocity, galactic clusters, observational cosmology	probability, Monte Carlo fallacy, subjective and objective
1956 Sept p 170-182 [240] BL Lacertae objects, quasars, radio astronomy	probability 1957 Nov p 128-138 [427] games theory, mathematics, decision theory, work of J Von Neumann
1977 Aug. p 32–39 [372]	and O Morgenstern 1949 May p 22-23
pregalactic formations 1963 Feb p 65	uncertainty principle, decision theory, probability, pure strategy, card
Local Group, Maffei 1 and 2 1971 Mar p 44 galaxy, stellar evolution, massive stars, nebulae, stellar associations,	decision theory minimax pure strategy, mixed stratgey, worst-case
massive stars are short-lived 1956 Feb p 36-41	analysis 1955 Feb p 78-83 human conflict, probability, zero-sum game, multary strategy, use and
radio astronomy, interstellar hydrogen, radio star, the radio sky 1956 July p 32-37	misuse of game theory 1962 Dec p 100-110
stellar evolution, universe, stellar populations, spiral galaxies,	logic, computer theory, algorithms, problem solving, Turing machine 1965 Nov p 98-106
distribution of 'population I' and 'II' stars in local Galaxy 1956 Sept p 92-99	mathematical logic paradox decision theory, 'metalogic' to solve
spiral structure, interstellar hydrogen, radio astronomy, galactic	paradox 1967 July p 50-50
nucleus, mapping the local Galaxy 1959 Aug p 44-51 [250] radio astronomy, spiral arms, interstellar hydrogen, mapping the spiral	gametocyte, biological clock, malaria, Plasmodium, parasitism, reproduction, mosquitoes 1970 June p 123–131 [1181]
arms of the local Galaxy 1959 Dec p 92-104	Gamma Draconis, Earth, orbital motion, stellar aberration, discovery of
Clouds of Magellan, stellar evolution, ultraviolet radiation 1964 Jan p 32-41	gamma radiation, forest ecosystem, X-ray, white oak, atomic bomb test,
Doppler effect, hydroxyl radical, microwaves, radio-absorption, gas	weeds, environmental pollution, ecological effects of high-energy
clouds 1965 July p 26-33	DDT soil pollution, herbicide, X-ray, soil ecology
V = 1966 Apr p 50	1969 Apr p 88-99 [1138] atomic nucleus, chemical bond, energy levels, molecular structure.
see also galaxies, galactic evolution, galactic magnetism, galactic halo,	Mbssbauer spectroscopy 1971 Oct p 86–93
Milky Way, galactic clusters galaxy M 82, cosmic radiation, radio galaxies, synchrotron radiation,	antimatter, crystal structure, gravitational interaction, positron probes, solid state physics, scintigraph 1975 July p 34-42
exploding galaxies, proposed origin of cosmic rays 1964 Nov p 38-47	gamma radiation spectrometry, variation of scintillation counter
1950 Aug p 30	1950 July p 28 gamma-ray astronomy, Earth satellite, telemetry, first glimpse
galaxy shapes, galactic interactions, intergalactic tides, galaxy shapes, galactic interactions, intergalactic tides, galaxy	of gamma-ray sky 1962 May p 52-61
dynamics, integrated bridges Milky Way, stellar formation,	black hole, cosmic radiation, neutron stars, pulsar, satellite astronomy, Cygnus X-1 1976 Oct p 66-79A
supernovae, galactic dust clouds, liebulae, Galactic Aug p 48-61	gamma ray star. Sagittarius 1969 Nov p 57
globules Galen work and influence	gammaglobulin, poliomyelitis, epidemiology, immunity, blood fractionation, vaccine 1953 July p 25-29
	bacterial infection, blood proteins, antibodies, immunology, tissue grafts, agammaglobulinemia, hereditary immunological deficiency
Galilean relativity, gravity, inertia, Einstein, frames of reference, philosophy of science, relativity, identity of inertia and gravity 1957 Feb p 99–109	1957 July p 93–104
Califor by by and	antibodies, antigens, antigen-antibody reaction, antibody-antigen
Galileo, moons of Jupiter, inertia, gravity, Galileo, biography and 1949 Aug p 40-47 appraisal	region cells, color vision, retina, cone cells, pigments,
appraisal falling-body velocity, free fall, Merton rule, science history 1973 May p 84-92	spectrophotometry, three-color receptor system 1964 Dec p 48–56 [197]

ganglion reflexes, cell communication, central nervous system, nerve	charmonium, charmed quarks, high-energy physics, hadrons, leptons,
conduction, neuroreceptors, retina, nerve impulse, neurotransmitters, neural synapse, cytology, neuromuscular synapse,	quark hypothesis, 'color' and 'flavor' in quarks 1975 Oct p 38-50 Gauls in France, Celtic religion, Seine River source, shrine of Sequana
how cells communicate 1961 Sept p 209-220 [98]	1971 July p 65–73
Ganymede, Galileo, Jupiter, Jovian satellites, solar system, Europa, Callisto. Io 1976 May p 108-116	Gauss, mathematics history, number theory, Disquisitiones Arithmeticae 1977 July p 122-131 [371]
gas, pipelines, fluid dynamics, oil, slurnes, history and technology of pipelines 1967 Jan p 62-72	gears, bearing, friction, technology history, Leonardo, Codex Madrid I 1971 Feb p 100-110
gas chromatography, chemical separation, sensitivity and application	gegenschein, gas-taul hypothesis 1971 Aug p 47 Geiger counter, exoelectrons, metal fatigue, metal-surface defects, wear
1961 Oct p 58-67 [276] fossil record, organic molecules, sedimentary rock, chlorophyll,	1977 Jan p 74-82 [350]
hydrocarbons, 'chemical fossils' 1967 Jan p 32–43 [308]	gemstones, diffraction, grain structure, opal colors, periodic structures,
high sensitivity 1958 Apr p 52 hacterial 'signature' 1966 July p 54	silica-sphere packing 1976 Apr p 84-95 gene action visualized, DNA transcription, electron microscopy,
gas clouds, Doppler effect, hydroxyl radical, microwaves, galaxy, radio-	nbosome, mRNA 1973 Mar p 34-42 [1267]
absorption 1965 July p 26–33	gene activation, actinomyosin, ecdysone, cortisone, insulin, estrogens, RNA synthesis, aldosterone, growth hormone, ACTH, thyroxin,
gas compression, shock waves, shock tube, high temperature, plasma, mechanically and electromagnetically driven shock waves	mechanism of hormone action 1965 June p 36-45 [1013]
1963 Feb p 109–119	gene complement, hybrid cells, DNA, RNA, ribosomal RNA, gene
gas exchange, thorax, lung, pulmonary ventilation, breathing, alveoli, human physiology, vital capacity, mechanics and physiology of	transcription, density-gradient centrifugation, DNA-RNA hybridization experiments 1964 May p 48-56
breathing, anatomy of lung 1966 Feb p 56–68 [1034]	cell differentiation, nucleus transplantation, clone, genetic engineering,
lung, gill, oxygen transfer, carbon dioxide, water-breathing by	somatic cell nucleus, frog embryo, gene regulation
mammals, breathing, animal experiments in water-breathing 1968 Aug p 66-74 [1123]	1968 Dec p 24-35 [1128] gene culture, polyoma virus, cell transformation, SV40 virus, viral DNA,
gas hydrates, clathrates, inclusion compounds, crystallography, inclusion	viral carcinogenesis 1967 Apr p 28-37 [1069]
compounds in biology and technology 1962 July p 82-92 [280]	gene expression, neurospora, mutation, natural selection, Mendelian inheritance, genetic disease, tryptophan-niacin relation, one gene-
gas injection, petroleum, water injection, secondary recovery 1965 July p 34-42	one enzyme hypothesis, selection for defect 1948 Sept p 30-39 [1]
gas kinetics, Monte Carlo method, computer modeling, mathematical	phenotype, genotype, mutation 1949 Oct p 46-49
model, chemistry by computer 1964 July p 100–108 gas laser, Raman laser effect, solid-state lasers, diode junction laser, laser	agammaglobulinemia, alkaptonuria, Wilson's disease, congenital anomalies, chemistry of hereditary disease, one gene-one enzyme
technology in rapid development 1963 July p 34-45 [294]	hypothesis 1956 Dec p 126-136
carbon dioxide, laser, infrared radiation, nitrogen, physics of carbon	cancer, multipotential cells, tumor, teratoma, plant cell, inhibitions
dioxide laser 1968 Aug p 22–33 Doppler effect, energy levels, laser spectroscopy, spectroscopy	1965 Nov p 75-83 [1024] phagocytosis, repressor molecules, operator-repressor system, lac
1973 Dec p 69-85	repressor, lambda repressor, isolation of two gene repressors, how
gas molecules, molecular beam, electron theory, resonance absorption, atomic radiation, coherent radiation, nuclear magnetic resonance,	they work 1970 June p 36-44 [1179] DNA operator, DNA repressor, gene regulation, host-restriction
Stern-Gerlach experiment 1965 May p 58-74	endonuclease, operator-repressor system 1976 Jan p 64-76 [1333]
gas phase, superfluidity, helium 3, liquid phase, solid state physics,	genetic engineering, frog eggs, hemoglobin, mRNA, RNA molecule
quantum effects, quantum fluids, phase transitions 1976 Dec p 56-71	1976 Aug p 60-71 [1343] bacteriophage structure, latent viruses, provirus, virus action,
gas plasma, ball lightning, nuclear fusion, ionization, Kapitza theory, Hill	coexisting viruses, viral genes in host chromosome
theory 1963 Mar p 106-116 gas separation, laser, laser-light pressure, radiation pressure, isotope	1976 Dec p 102–113 [1347] repressors isolated 1967 June p 52
separation, 'optical bottle', atomic and molecular beams	bind to gene operators 1974 June p 48
1972 Feb p 62-71 gas stream, fluidization, petroleum cracking, particle bed, turbulence,	gene fusion, large, two-function enzymes 1971 Jan p 46 gene isolation, DNA fractionation, ribosome, ribosomal RNA-coding
food processing 1968 July p 94–104	genes 1973 Aug p 20-29 [1278]
gas turbine, aircraft propulsion, centrifugal compressor, axial-flow compressor, ducted fan, electric power generation	comparative religion, ethnic groups, Israel, Judaism, Samaritans,
1953 Nov p 65-72	Holon and Nablus communities 1977 Jan p 100–108 [690] isolation of single gene 1962 Apr p 77
energy transformation, energy demand, fuel-conversion efficiency,	lac operon 1970 Jan p 50
power, prime movers, steam turbines, magnetohydrodynamics, internal combustion engine, fuel cell, solar cells, power, nuclear	gene loci, fruit fly, genetics of behavior, insect behavior, genetic mosaic, mutants 1973 Dec p 24-37 [1285]
power, comparative efficiencies of energy transformation pathways	gene manipulation, electrophoresis, sex determination, spermatozoon
in industrial civilization 1971 Sept p 148-160 [668] coal gasification, pollution control, oil gasification, energy resources	motility, sorting out Y-bearing sperm by electrophoresis
1972 Oct p 26-35	1958 Nov p 87-94 resource management, grafting techniques, forestry, Southern pine, tree
single-crystal blades 1967 Feb p 58 gas vacuoles, algae, algal bloom, blue-green bacteria, cyanobacteria	farming, seed-orchard concept 1971 Nov p 94-103 molecular cloning, plasmids, recombinant DNA, Asilomar conference,
1977 Aug p 90-97 [1367]	hazard evaluation 1975 July p. 24_33 [1324]
gasification processes, coal gasification, energy resources, Lurgi process, Hygas process, synthane process CO ₂ acceptor process, coal	agricultural resources, irrigation, photosynthesis, food and agriculture
technology 1974 Mar n 19-25	1976 Sept p 164-178 gene splicing, National Academy of Sciences, recombinant DNA,
gasoline from coal, Bureau of Mines pilot plant 1951 Jan p 28 gastrointestinal gas, hydrogen from colon 1969 Sept p 95	science policy, NIH guidelines 1977 July p. 22–23 [1362]
gastrula, cell differentiation, embryonic development, blastula,	altering mutation rate 1961 Oct p 86 gene mapping, DNA, chromosome, bacteriophage, mapping genes by
fertilization, ectoderm, mesoderm, endoderm embryological	induced and spontaneous mutations 1962 lange 70 94 (120)
'organizer', science history, review of classical embryology 1957 Nov. p. 79-88 [103]	bacteriophage, amber mutants, virus particles
gauge theory, particle interaction, high-energy physics, field theory.	protein structure amino-acid sequence, gene-protein colinearity, DNA
"weak" force, electromagnetic force, 'strong' force 1974 July p 50-59 electromagnetic force, particle interaction, neutrino interactions 'weak'	structure, mutation, base 1967 May p 80-94 [1074]
force, neutral-weak-current interactions 1974 Dec p 108-119	•

galactic radiation, gravitational waves, gravitation	al-radiation detector,	Jupiter, Jovenn's itellite, solar system Europa Callisto Ganamedeli
relativity theory galactic radio sources, radio astronomy, radio gala	1971 May p. 22-2	1976 May n 102-116
	1975 Aug n 26 3	Ciable D's Capterionents front all terronnal colonies march, confermed
galactic recession, cosmology, red shift, element at elements, universe expansion	bund ince, 'synthetic'	time-keeping gravitational acceleration musical time matter
astronomy, galaxies, red shift, universe expansion	1945 July p. 20-2:	7 1975 June p 9위에
evolution, general relativity, astronomy 1900.	1950	Galileo's heresy. Bruno science history, Copernican resolution, marryrdom of Giordano Bruno re-examined 1973 Apr p 86-84
	1958 Sent in 24-21	marry from of Chordano Bruno re-examined 1973 Apr p & 34 Galileo's sexton, ab icus, calculating machine, mechanical calculators
galactic rotation, stellar populations, stellar evolution fundamental research, Why do galaxies have s	ion, galactic evolution,	slide rule, sexton 1976 Apr p 104-113
to careful why do galaxies have	1953 Sept. p. 89-99	Galley Hill skull, Homo sapiens, Neunderthal man, Charenteskull
Andromed i Galaxy	1973 June n 30 36	
galactic structure, Clouds of Magellan, spiral galax	ies, radio astronoms,	gallium arvenide, electric field. Gunn effect, micro and emission results
resolution of structure of nearest galaxies stellar populations, spiral arms, stellar classificat	1956 Apr p 52-58	resistance, solid state physics, electronics, solid state microwave
galaxies 19	58 Nov. n. 44_50 (203)	generation 1966 Aug p 22-31 gallstones, crystal structure, lithiasis, kidney calculi, X-ray diffraction.
galactic survey, Palomar Observatory, Hale telescop	pe. Schmidt telescope.	bladder stones, urmary calculi 1968 Dec p 104-111
cosmology, 200-inch and 48-inch Palomar tele		Galton, correlation theory, eugenics, dermatoglyphics, life and work of
galactic yardstick, universe expansion, Cepheid vari	1948 Aug p 12-17	Francis Galton, regression to mean 1954 Jan p 72-10
Magellan, Andromeda Galaxy, doubling of ya	rdstick doubles size	Galvani, animal electricity, voltaic pile, a major discovery in physics as well as biology 1950 Feb p 40-43
and age of the universe	1953 June p 56-66	battery, electrochemistry, electric power, Volta, Volta's contributions
spectroscopy, stellar distances, calcium absorptic 'yardstick'		biography 1965 Jan p 82-91
Galapagos Islands, Darwin's finches, speciation, esc	1961 Jan p 107–119	galvanic cell, pH, glass electrode, hydrogen ions acidity 1951 Jan p 40-43
1	953 Apr p 66-72 [22]	galvanomagnetism, Ettingshausen ellect, Hall ellect, Nernst ellect, Right
galaxies, astronomy, red shift, galactic recession, ur	niverse expansion.	Leduc effect, thermomagnetism, science history, industrial
science, stellar evolution, general relativity, ast	ronomy 1900-1950 1950 Sept p 24-27	technology, technological applications of 19th c discovenes 1961 Dec p 124-136
turbulence, nebulae, galactic clusters, hierarchy o	f turbulence in space	cambler's fallow probability law of large numbers random walks
	1952 June p 26-30	mathematical proof, philosophy of science 1950 Oct p 44-47
cosmology, red shift, universe expansion, universe	e, spectroscopy,	gambling, psychology, probability, decision making, subjective
recession velocity, galactic clusters, observation 1956:	Sept p 170–182 [240]	probability. Monte Carlo fallacy, subjective and objective probability 1957 Nov p 128-138 [427]
BL Lacertae objects, quasars, radio astronomy		games theen mathematics desired theen used of I Von Neumann
197	77 Aug p 32-39 [372]	and O. Morgenstern 1949 Ma) P 22
pregalactic formations Local Group, Maffet 1 and 2	1963 Feb p 65 1971 Mar p 44	uncertainty principle, decision theory, probability, pure strategy, card games illustrate theory 1951 Jan p 44-47
galaxy, stellar evolution, massive stars, nebulae, stel		description with the state of t
massive stars are short-lived	1956 Feb p 36-41	analises 1930 Feb P 18 1
radio astronomy, interstellar hydrogen, radio star,	, the radio sky 1956 July p 32–37	human conflict, probability, zero-sum game, military strategy, use and misuse of game theory 1962 Dec p 108-118
stellar evolution, universe, stellar populations, spir		to a support of the same already problem rolling Turing machine
distribution of 'population I' and 'II' stars in lo	cal Galaxy	1903 Nov p
amoral admirations, outside all as he described and a setting	1956 Sept p 92-99	mathematical logic, paradox, decision theory, 'metalogic' to solve paradox 1967 July p 50-56
spiral structure, interstellar hydrogen, radio astror nucleus, mapping the local Galaxy 1959	9 Aug p 44–51 [250]	the state of the s
radio astronomy, spiral arms, interstellar hydrogen	n, mapping the spiral	gametocyte, biological clock, malaria, Plasmodium, parasitism reproduction, mosquitoes 1970 June p 123-131 [1181]
arms of the local Galaxy Clouds of Magellan, stellar evolution, ultraviolet r.	1959 Dec p 92-104	Gamma Draconis, Earth, orbital motion, stellar aberration, discovery of stellar aberration by James Bradley 1964 Mar p 100-108
	1964 Jan p 32-41	nomina radiation forest ecosystem X-ray, white oak, atomic bomb less
Doppler effect, hydroxyl radical, microwaves, radio	o-absorption, gas	weeds, environmental pollution, ecological effects of high-chests
clouds	1965 July p 26-33 1963 Sept p 86	ppm - 1 - 11 + 1 1 - 1 - 1 - V - 1 V - 1 - 1 - 1 - 1 -
M82 as supersupernova X-ray galaxies	1966 Apr p 50	1969 Apr p 88-99 [1130]
see also galaxies, galactic evolution, galactic magni	etism, galactic halo,	atomic nucleus, chemical bond, energy levels, molecular structure, Mossbauer spectroscopy 1971 Oct p 86-95
Milky Way, galactic clusters galaxy M 82, cosmic radiation, radio galaxies, synchr	otron radiation,	entimates, aristal structure grantational interaction position probes
exploding galaxies, proposed origin of cosmic ray	ys	solid state physics, scintigraph 1975 July p 34-42 gamma radiation spectrometry, variation of scintillation counter
	1964 Nov p 38-47 1950 Aug p 30	1950 July P = -
galaxy-occulting galaxy, a gravitational lens galaxy shapes, galactic interactions, intergalactic tides	s, gravitational	gamma-ray astronomy, astronomy, Earth satellite, telemetry, first glimpse of gamma-ray sky 1962 May p 52-61
demanuse intergalactic DEIGES	1713 Dec p 30 10	block hale cosmic radiation, neutron stars, pulsar, satellite astronomy,
galaxy structure, interstellar matter, Milky Way, stella supernovae, galactic dust clouds, nebulae, Gum l	ir iormation, Vehula, Bok	Cygnus X-1 1976 Oct p 60-771
-1-h1-a	1712 MUS P TO VA	gamma ray star, Sagittarius gammaglobulin, poliomyelitis, epidemiology, immunity, blood
o t t t bester, human anatomy Galen, Work	and influence 57 Mar p 105-114	fractionation vaccine 1953 July p 25-25
G 12 Indian groupty martin Finstein frames of	reference,	bacterial infection blood proteins, antibodies, immunology, tissue
		grafts, agammaglobulinemia, hereditary immunological deficiency 1957 July p 93-104
		antibodies, antigens, antigen-antibody reaction, antibody-antigen
Galileo, moons of Jupiter, inertia, gravity, Galileo, bio appraisal		-anglian calls, color vision, reting, cone cells, pigments
a cut la communication of the contraction of the co	history 1973 May p 84-92	spectrophotometry, three-color receptor system
= =	INID INTER P OF YOU	1964 Dec p 48-56 [197]

ranglion reflexes, cell communication, central nervous system, nerve	charmonium, charmed quarks, high-energy physics, hadrons, leptons,
conduction, neuroreceptors, retina, nerve impulse,	quark hypothesis, 'color' and 'flavor' in quarks 1975 Oct. p. 38-50 Gauls in France, Celtic religion, Seine River source, shrine of Sequana
neurotransmitters, neural synapse, cytology, neuromuscular synapse, how cells communicate 1961 Sept. p. 209–220 [98]	1971 July p. 65–73
Ganymede, Galileo, Jupiter, Jovian satellites, solar system, Europa,	Gauss, mathematics history, number theory, Disquisitiones Arithmeticae
Callisto, Io 1976 May p. 108–116	1977 July p. 122–131 [371]
gas, pipelines, fluid dynamics, oil, slurries, history and technology of	gears, bearing, friction, technology history, Leonardo, Codex Madrid I
pipelines 1967 Jan. p. 62–72	1971 Feb. p. 100–110
gas chromatography, chemical separation, sensitivity and application 1961 Oct. p. 58-67 [276]	gegenschein, gas-tail hypothesis 1971 Aug. p. 47 Geiger counter, exoelectrons, metal fatigue, metal-surface defects, wear
fossil record, organic molecules, sedimentary rock, chlorophyll,	1977 Jan. p. 74–82 [350]
hydrocarbons, 'chemical fossils' 1967 Jan. p. 32–43 [308]	gemstones, diffraction, grain structure, opal colors, periodic structures,
high sensitivity 1958 Apr. p. 52	silica-sphere packing 1976 Apr. p. 84–95
bacterial 'signature' 1966 July p. 54	gene action visualized, DNA transcription, electron microscopy, ribosome, mRNA 1973 Mar. p. 34-42 [1267]
gas clouds, Doppler effect, hydroxyl radical, microwaves, galaxy, radio- absorption 1965 July p. 26-33	gene activation, actinomyosin, ecdysone, cortisone, insulin, estrogens,
gas compression, shock waves, shock tube, high temperature, plasma,	RNA synthesis, aldosterone, growth hormone, ACTH, thyroxin,
mechanically and electromagnetically driven shock waves	mechanism of hormone action 1965 June p. 36-45 [1013]
1963 Feb. p. 109–119	gene complement, hybrid cells, DNA, RNA, ribosomal RNA, gene
gas exchange, thorax, lung, pulmonary ventilation, breathing, alveoli, human physiology, vital capacity, mechanics and physiology of	transcription, density-gradient centrifugation, DNA-RNA hybridization experiments 1964 May p. 48-56
breathing, anatomy of lung 1966 Feb. p. 56–68 [1034]	cell differentiation, nucleus transplantation, clone, genetic engineering,
lung, gill, oxygen transfer, carbon dioxide, water-breathing by	somatic cell nucleus, frog embryo, gene regulation
mammals, breathing, animal experiments in water-breathing	1968 Dec. p. 24-35 [1128]
1968 Aug. p. 66–74 [1123]	gene culture, polyoma virus, cell transformation, SV40 virus, viral DNA,
gas hydrates, clathrates, inclusion compounds, crystallography, inclusion compounds in biology and technology 1962 July p. 82–92 [280]	viral carcinogenesis 1967 Apr. p. 28–37 [1069] gene expression, neurospora, mutation, natural selection, Mendelian
gas injection, petroleum, water injection, secondary recovery	inheritance, genetic disease, tryptophan-niacin relation, one gene-
1965 July p. 34–42	one enzyme hypothesis; selection for defect 1948 Sept. p. 30-39 [1]
gas kinetics, Monte Carlo method, computer modeling, mathematical	phenotype, genotype, mutation 1949 Oct. p. 46–49
model, chemistry by computer 1964 July p. 100-108 gas laser, Raman laser effect, solid-state lasers, diode junction laser, laser	agammaglobulinemia, alkaptonuria, Wilson's disease, congenital anomalies, chemistry of hereditary disease, one gene-one enzyme
technology in rapid development 1963 July p. 34–45 [294]	hypothesis 1956 Dec. p. 126–136
carbon dioxide, laser, infrared radiation, nitrogen, physics of carbon	cancer, multipotential cells, tumor, teratoma, plant cell, inhibitions
dioxide laser 1968 Aug. p. 22–33	1965 Nov. p. 75–83 [1024]
Doppler effect, energy levels, laser spectroscopy, spectroscopy 1973 Dec. p. 69–85	phagocytosis, repressor molecules, operator-repressor system, lac repressor, lambda repressor, isolation of two gene repressors; how
gas molecules, molecular beam, electron theory, resonance absorption,	they work 1970 June p. 36–44 [1179]
atomic radiation, coherent radiation, nuclear magnetic resonance,	DNA operator, DNA repressor, gene regulation, host-restriction
Stern-Gerlach experiment 1965 May p. 58–74	endonuclease, operator-repressor system 1976 Jan. p. 64-76 [1333]
gas phase, superfluidity, helium 3, liquid phase, solid state physics, quantum effects, quantum fluids, phase transitions	genetic engineering, frog eggs, hemoglobin, mRNA, RNA molecule
1976 Dec. p. 56–71	1976 Aug. p. 60–71 [1343] bacteriophage structure, latent viruses, provirus, virus action,
gas plasma, ball lightning, nuclear fusion, ionization, Kapitza theory, Hill	coexisting viruses, viral genes in host chromosome
theory 1963 Mar. p. 106–116	1976 Dec. p. 102-113 [1347]
gas separation, laser, laser-light pressure, radiation pressure, isotope separation, 'optical bottle', atomic and molecular beams	repressors isolated 1967 June p. 52 bind to gene operators 1974 June p. 48
1972 Feb. p. 62–71	bind to gene operators 1974 June p. 48 gene fusion, large, two-function enzymes 1971 Jan. p. 46
gas stream, fluidization, petroleum cracking, particle bed, turbulence,	gene isolation, DNA fractionation, ribosome, ribosomal RNA-coding
food processing 1968 July p. 94–104	genes 1973 Aug. p. 20–29 [1278]
gas turbine, aircraft propulsion, centrifugal compressor, axial-flow compressor, ducted fan, electric power generation	comparative religion, ethnic groups, Israel, Judaism, Samaritans, Holon and Nablus communities 1977 Jan. p. 100–108 [690]
1953 Nov. p. 65-72	isolation of single gene 1962 Apr. p. 77
energy transformation, energy demand, fuel-conversion efficiency,	lac operon 1970 Jan. p. 50
power, prime movers, steam turbines, magnetohydrodynamics, internal combustion engine, fuel cell, solar cells, power, nuclear	gene loci, fruit fly, genetics of behavior, insect behavior, genetic mosaic.
power, comparative efficiencies of energy transformation pathways	mutants 1973 Dec. p. 24-37 [1285] gene manipulation, electrophoresis, sex determination, spermatozoon
in industrial civilization 1971 Sept. p. 148–160 [668]	motility, sorting out Y-bearing sperm by electrophoresis
coal gasification, pollution control, oil gasification, energy resources	1958 Nov n 87-94
1972 Oct. p. 26-35 single-crystal blades 1967 Feb. p. 58	resource management, grafting techniques, forestry, Southern pine, tree farming, seed-orchard concept 1971 Nov. p. 94-103
gas vacuoles, algae, algal bloom, blue-green bacteria, cyanobacteria	farming, seed-orchard concept 1971 Nov. p. 94–103 molecular cloning, plasmids, recombinant DNA, Asilomar conference,
1977 Aug. p. 90–97 [1367]	hazard evaluation 1975 July p. 24-33 [1224]
gasification processes, coal gasification, energy resources, Lurgi process, Hygas process, synthane process, CO ₂ acceptor process, coal	agricultural resources, irrigation, photosynthesis, food and agriculture
technology 1974 Mar n 19–25	1976 Sept. p. 164-178 gene splicing, National Academy of Sciences, recombinant DNA,
gasoline from coal, Bureau of Mines pilot plant 1951, Jan. p. 28	science policy, NIH guidelines 1977 July p. 22, 22 112621
gastrointestinal gas, hydrogen from colon 1969 Sept. p. 95	altering mutation rate
gastrula, cell differentiation, embryonic development, blastula, fertilization, ectoderm, mesoderm, endoderm, embryological	gene mapping, DNA, chromosome, bacteriophage, mapping genes by
'organizer', science history, review of classical embryology	induced and spontaneous mutations 1962 Jan. p. 70-84 [120] bacteriophage, amber mutants, virus particles
1957 Nov. p. 79–88 (103)	1965 Eab = 70 78 ttop 4
gauge theory, particle interaction, high-energy physics, field theory, 'weak' force, electromagnetic force, 'strong' force 1974 July p. 50-59	protein structure, amino-acid sequence, gene-protein colinearity. DNA
dectromagnetic force, particle interaction, neutrino interactions, 'weak'	structure, mutation, base 1967 May p. 80–94 [1074]
force, neutral-weak-current interactions 1974 Dec. p. 108-119	•

cell culture, cell hybridization, cell differentiation, hybrid cells, Sendar	man translation to a t
virus, mouse-rat, mouse-hum in hybrid cells in laboratory	gene transduction, bacteria bacteriophage, recombinant DNA, bacterial
1969 Apr. n. 7635 (1137)	gene transduction by phage infection 1958 Nov p 38-43 [106]
chromosome, genetic disease, autosomes, chromosomal anomalies	gene transformation, bacteria, drug resistance, streptomycin
1971 Apr p 104_113 (1220)	pneumococcus, recombinant DNA, biochemistry of Avery, McLeod
cell hybridization, hybrid cells, mouse-human hybrid cells, somatic	and McCarty experiment 1956 Nov p 48-53 [18]
CCIIS 1974 Tule p. 36, 44 (1200)	adenoviruses, cancer virus, SV40 virus DNA virus DNA
gene mutation, cancer, evidence for genetic factor in laboratory animals	recombination, tumor-virus antigen, virus etiology of cancer
1950 July p 44-47	1966 Mar p 34-41
human evolution, natural selection, mutation, eugenies, 'man's genetic	pneumococcus, cell wall, recombinant DNA, transformation induced
future' 1952 Feb p 68-74	by factor synthesized by cell 1969 Jan p 38-44
chromosomal anomalies, lethal heredity 1952 July p 58-61	hacterial transformation, Diplococcus pneumoniae, extra-cellular
chromosomal anomalies, lethal heredity 1952 July p 58-61 tatoms for peace', radiation hazards, safety standards, Geneval biology	activator of transformation competence 1969 Dec p 38-44
answers beare transport payment variety rainer that General, probles	cancer, SV40 virus, chromosome mapping, tissue culture, somatic cells
crathrocyte sickle call duality countries to the p 36-42	hybrid cells, genetics of human cancer 1978 Feb p 117-125 [1381]
erothrocyte, siekle cell disease, genetic disease, single gene-single aminoacid deletion 1958 Jan p. 68-74	gene translocation, Down's syndrome, chromosomal anomalies
	Klinefelter's syndrome, trisomy 21, genetic defect, meiosis mitosis
fruit fly, insect eye, paper chromatography, fractionating the fruit fly	nondisjunction, afflictions associated with abnormal chromosome
1962 Apr. p 100-110 [1166]	complement 1961 Nos p 66-76 [150]
DNA, phage X174, single-stranded DNA 1962 July p 109-116 [128]	general education, little of it 1954 Dec p 60
DNA, RNA-DNA 'reverse' transfer, cancer virus, DNA polymerase,	general practitioner, medical care, community hospital, medical center,
RNA-directed DNA polymerase 1972 Jan p 24-33 [1239]	medical specialist, laboratory services. Bingham plan, organization
antibiotic resistance, bacteria, infectious disease, drug resistance,	of medical technology 1948 Oct p 7-13
plasmids, Rh factor, bacterial conjugation	general relativity, astronomy, galaxies, red shift, galactic recession,
1973 Apr p 18-27 [1269]	universe expansion, science, stellar evolution, astronomy 1900 1950
albinism, Siamese cat, visual cortex, white mink, white tiger, cross-eyed	1950 Sept p 24-27
trait 1974 May p. 44-54 [1294]	curvature of space, Riemann non-Euclidian geometry
air pollution, evolution, melanism, moths, population genetics,	1954 Nov p 80-86
predation, evolution observed again 1975 Jan p 90-99 [1314]	artificial satellite, relativity theory, Mercury, stellar shift,
genetic variation, natural selection, polymorphism, mollusk shells,	electromagnetic frequency shift, perihelion shift, clock paradox
biological diversity, discontinuous variation	testing Einstein's general theory of relativity 1959 May p 149-160
1975 Aug p 50-60 [1326]	gravitational constant, science history. Eötyös experiment, Eotyos
carcinogenesis, cancer epidemiology, environmental carcinogens,	experiment confirmed 1961 Dec p 84-94
immune response, virus disease, cancer prevention	star displaced 1 70 sec arc 1953 Feb p 39
1975 Nov. p. 64~78 [1330]	revision by Einstein 1953 May p 54
cat color, genetic variation, human migration, population genetics,	test for gravitational shift in frequency of gamma rays favorable but
cline maps, Hardy-Weinberg equilibrium	not conclusive 1960 Mar p 84
1977 Nov p 100-107 [1370]	test for gravitational frequency shift now judged conclusive
Hiroshima offspring no genetic harm, yet 1954 Jan p 40	1960 May p 88
gene pool, porphyria, dermatology, pink tooth disease, tracking porphyria	confirmed by Mossbauer-effect test of gravitational shift of solar
among Afrikaaners 1957 Mar p 133-142	radiation 1962 Mar p 12
bland against a service defe must ten appropriate at obition	test proposed radio echoes from Mercury or Venus 1965 Mar p 56
blood groups, genetic arit, inutation, consunguinty, evolution,	test proposed radio echoes from Mercury or Venus 1965 Mar p 30
blood groups, genetic drift, mutation, consanguinity, evolution, population genetics, Parma Valley, Italy 1969 Aug p 30-37	solar oblateness and Mercury's orbit 1967 Mar p 48
population genetics, Parma Valley, Italy 1969 Aug p 30-37	solar oblateness and Mercury's orbit 1967 Mar p 48 solar deflection of quasar signal 1970 Aug p 44
population genetics, Parma Valley, Italy 1969 Aug p 30-37 evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98-107 [1172]	solar oblateness and Mercury's orbit 1967 Mar p 48 solar deflection of quasar signal 1970 Aug p 44 reaffirmed by clock (cesum) paradox experiment 1972 Sept p 67
population genetics, Parma Valley, Italy 1969 Aug p 30-37 evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98-107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA	solar oblateness and Mercury's orbit 1967 Mar p 48 solar deflection of quasar signal 1970 Aug p 44 reaffirmed by clock (cesium) paradox experiment 1972 Sept p 67 generator control, automatic control, computer technology, electric power
population genetics, Parma Valley, Italy 1969 Aug p 30-37 evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98-107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80-94 [1074]	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control 1974 Nov p 34-44
population genetics, Parma Valley, Italy 1969 Aug p 30–37 evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98–107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80–94 [1074] gene recombination, 1951 Cold Spring Harbor conference	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control genesis, cosmology, universe expansion, Olber's paradox world lines,
population genetics, Parma Valley, Italy evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98-107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80-94 [1074] gene recombination, 1951 Cold Spring Harbor conference 1951 Oct p 22-25	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control genesis, cosmology, universe expansion, Olber's paradox world lines, curvature of space, red shift galactic evolution, evolutionary
population genetics, Parma Valley, Italy evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98-107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80-94 [1074] gene recombination, 1951 Cold Spring Harbor conference 1951 Oct p 22-25	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control genesis, cosmology, universe expansion, Olber's paradox world lines curvature of space, red shift galactic evolution, evolutionary universe, element formation 1954 Mar p 54-63
population genetics, Parma Valley, Italy evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98-107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80-94 [1074] gene recombination, 1951 Cold Spring Harbor conference 1951 Oct p 22-25 bacteria, sexual reproduction, conjugation, recombinant DNA, sexuality in bacteria 1956 July p 109-118 [50]	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control genesis, cosmology, universe expansion, Olber's paradox world lines, curvature of space, red shift galactic evolution, evolutionary universe, element formation 1954 Mar p 54-63 genetic adaptation, human evolution, natural selection, civilization,
population genetics, Parma Valley, Italy evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98-107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80-94 [1074] gene recombination, 1951 Cold Spring Harbor conference 1951 Oct p 22-25 bacteria, sexual reproduction, conjugation, recombinant DNA, sexuality in bacteria 1956 July p 109-118 [50] hacteria, bacteriophage, conjugation, recombinant DNA, mechanisms	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control genesis, cosmology, universe expansion, Olber's paradox world lines, curvature of space, red shift galactic evolution, evolutionary universe, element formation genetic adaptation, human evolution, natural selection, civilization, culture human evolution in manage environment
population genetics, Parma Valley, Italy evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98–107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80–94 [1074] gene recombination, 1951 Cold Spring Harbor conference 1951 Oct p 22–25 bacteria, sexual reproduction, conjugation, recombinant DNA, sexuality in bacteria 1956 July p 109–118 [50] bacteria, bacteriophage, conjugation, recombinant DNA, mechanisms of heredity and infection in bacteria 1961 June p 92–107 [89]	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control genesis, cosmology, universe expansion, Olber's paradox world lines, curvature of space, red shift galactic evolution, evolutionary universe, element formation genetic adaptation, human evolution, natural selection, civilization, culture, human evolution in man-made environment 1960 Sept p 206-217 [609]
population genetics, Parma Valley, Italy evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98–107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80–94 [1074] gene recombination, 1951 Cold Spring Harbor conference 1951 Oct p 22–25 bacteria, sexual reproduction, conjugation, recombinant DNA, sexuality in bacteria 1956 July p 109–118 [50] bacteria, bacteriophage, conjugation, recombinant DNA, mechanisms of heredity and infection in bacteria 1961 June p 92–107 [89]	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control genesis, cosmology, universe expansion, Olber's paradox world lines, curvature of space, red shift galactic evolution, evolutionary universe, element formation genetic adaptation, human evolution, natural selection, civilization, culture, human evolution in man-made environment 1966 Mar p 48 1970 Aug p 44 1970 Sept p 54 1974 Nov p 34-44 genesis, cosmology, universe expansion, Olber's paradox world lines, curvature of space, red shift galactic evolution, evolutionary universe, element formation 1954 Mar p 54-63 genetic adaptation, human evolution in man-made environment 1969 Sept p 206-217 [609]
population genetics, Parma Valley, Italy evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98-107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80-94 [1074] gene recombination, 1951 Cold Spring Harbor conference 1951 Oct p 22-25 bacteria, sexual reproduction, conjugation, recombinant DNA, sexuality in bacteria 1956 July p 109-118 [50] bacteria, bacteriophage, conjugation, recombinant DNA, mechanisms of heredity and infection in bacteria 1961 June p 92-107 [89] gene regulation, DNA, chromosome puffs, insect chromosome, RNA	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control genesis, cosmology, universe expansion, Olber's paradox world lines, curvature of space, red shift galactic evolution, evolutionary universe, element formation genetic adaptation, human evolution, natural selection, civilization, culture, human evolution in man-made environment 1960 Sept p 206-217 [609] genetic code, DNA, double helix X-ray crystallography structure of DNA resolved 1954 Oct p 54-61 [5]
population genetics, Parma Valley, Italy evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98–107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80–94 [1074] gene recombination, 1951 Cold Spring Harbor conference 1951 Oct p 22–25 bacteria, sexual reproduction, conjugation, recombinant DNA, sexuality in bacteria 1956 July p 109–118 [50] bacteria, bacteriophage, conjugation, recombinant DNA, mechanisms of heredity and infection in bacteria 1961 June p 92–107 [89] gene regulation, DNA, chromosome puffs, insect chromosome, RNA synthesis, hormonal induction 1964 Apr p 50–58 [180]	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control 1974 Nov p 34-44 genesis, cosmology, universe expansion, Olber's paradox world lines, curvature of space, red shift galactic evolution, evolutionary universe, element formation 1954 Mar p 54-63 genetic adaptation, human evolution, natural selection, civilization, culture, human evolution in man-made environment 1960 Sept p 206-217 [609] genetic code, DNA, double helix X-ray crystallography structure of DNA resolved 1954 Oct p 54-61 [5] codon, amino acid pairing DNA, RNA, Gamow proposes triplet
population genetics, Parma Valley, Italy evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98–107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80–94 [1074] gene recombination, 1951 Cold Spring Harbor conference 1951 Oct p 22–25 bacteria, sexual reproduction, conjugation, recombinant DNA, sexuality in bacteria 1956 July p 109–118 [50] bacteria, bacteriophage, conjugation, recombinant DNA, mechanisms of heredity and infection in bacteria 1961 June p 92–107 [89] gene regulation, DNA, chromosome puffs, insect chromosome, RNA synthesis, hormonal induction 1964 Apr p 50–58 [180] cell differentiation, nucleus transplantation clone, genetic engineering,	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control genesis, cosmology, universe expansion, Olber's paradox world lines, curvature of space, red shift galactic evolution, evolutionary universe, element formation 1954 Mar p 54-63 genetic adaptation, human evolution, natural selection, civilization, culture, human evolution in man-made environment 1960 Sept p 206-217 [609] genetic code, DNA, double helix X-ray crystallography structure of DNA resolved 1954 Oct p 54-61 [5] codon, amino acid pairing DNA, RNA, Gamow proposes triplet codon 1955 Oct p 70-78
population genetics, Parma Valley, Italy evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98–107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80–94 [1074] gene recombination, 1951 Cold Spring Harbor conference 1951 Oct p 22–25 bacteria, sexual reproduction, conjugation, recombinant DNA, sexuality in bacteria 1956 July p 109–118 [50] bacteria, bacteriophage, conjugation, recombinant DNA, mechanisms of heredity and infection in bacteria 1961 June p 92–107 [89] gene regulation, DNA, chromosome puffs, insect chromosome, RNA synthesis, hormonal induction 1964 Apr p 50–58 [180] cell differentiation, nucleus transplantation clone, genetic engineering, somatic cell nucleus, gene complement, frog embryo 1968 Dec p 24–35 [1128]	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control generator, cosmology, universe expansion, Olber's paradox world lines, curvature of space, red shift galactic evolution, evolutionary universe, element formation 1954 Mar p 54-63 genetic adaptation, human evolution, natural selection, civilization, culture, human evolution in man-made environment 1960 Sept p 206-217 [609] genetic code, DNA, double helix X-ray crystallography structure of DNA resolved 1954 Oct p 54-61 [5] codon, amino acid pairing DNA, RNA, Gamow proposes triplet codon 1955 Oct p 70-78 hacteria, protein synthesis, DNA, RNA, protein synthesis by bacterial
population genetics, Parma Valley, Italy evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98–107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80–94 [1074] gene recombination, 1951 Cold Spring Harbor conference 1951 Oct p 22–25 bacteria, sexual reproduction, conjugation, recombinant DNA, sexuality in bacteria 1956 July p 109–118 [50] bacteria, bacteriophage, conjugation, recombinant DNA, mechanisms of heredity and infection in bacteria 1961 June p 92–107 [89] gene regulation, DNA, chromosome puffs, insect chromosome, RNA synthesis, hormonal induction 1964 Apr p 50–58 [180] cell differentiation, nucleus transplantation clone, genetic engineering, somatic cell nucleus, gene complement, frog embryo 1968 Dec p 24–35 [1128]	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control genesis, cosmology, universe expansion, Olber's paradox world lines, curvature of space, red shift galactic evolution, evolutionary universe, element formation genetic adaptation, human evolution, natural selection, civilization, culture, human evolution in man-made environment 1960 Sept p 206-217 [609] genetic code, DNA, double helix X-ray crystallography structure of DNA resolved 1954 Oct p 54-61 [5] codon 1955 Oct p 70-78 bacteria, protein synthesis, DNA, RNA, protein synthesis by bacterial DNA-RNA in vitro DNA RNA, chromosome protein synthesis, polymers molecular
population genetics, Parma Valley, Italy evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98–107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80–94 [1074] gene recombination, 1951 Cold Spring Harbor conference 1951 Oct p 22–25 bacteria, sexual reproduction, conjugation, recombinant DNA, sexuality in bacteria 1956 July p 109–118 [50] bacteria, bacteriophage, conjugation, recombinant DNA, mechanisms of heredity and infection in bacteria 1961 June p 92–107 [89] gene regulation, DNA, chromosome puffs, insect chromosome, RNA synthesis, hormonal induction 1964 Apr p 50–58 [180] cell differentiation, nucleus transplantation clone, genetic engineering, somatic cell nucleus, gene complement, frog embryo 1968 Dec p 24–35 [1128] cell nucleus, chromatin, chromosomal proteins, DNA, histones,	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control genesis, cosmology, universe expansion, Olber's paradox world lines, curvature of space, red shift galactic evolution, evolutionary universe, element formation genetic adaptation, human evolution, natural selection, civilization, culture, human evolution in man-made environment 1960 Sept p 206-217 [609] genetic code, DNA, double helix X-ray crystallography structure of DNA resolved 1954 Oct p 54-61 [5] codon, amino acid pairing DNA, RNA, Gamow proposes triplet codon 1955 Oct p 70-78 bacteria, protein synthesis, DNA, RNA, protein synthesis by bacterial DNA-RNA in vitro DNA, RNA, chromosome, protein synthesis, polymers molecular genetics as of mid-1957 1957 Sept p 188-200 [54]
population genetics, Parma Valley, Italy evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98–107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80–94 [1074] gene recombination, 1951 Cold Spring Harbor conference 1951 Oct p 22–25 bacteria, sexual reproduction, conjugation, recombinant DNA, sexuality in bacteria 1956 July p 109–118 [50] bacteria, bacteriophage, conjugation, recombinant DNA, mechanisms of heredity and infection in bacteria 1961 June p 92–107 [89] gene regulation, DNA, chromosome puffs, insect chromosome, RNA synthesis, hormonal induction 1964 Apr p 50–58 [180] cell differentiation, nucleus transplantation clone, genetic engineering, somatic cell nucleus, gene complement, frog embryo 1968 Dec p 24–35 [1128] cell nucleus, chromatin, chromosomal proteins, DNA, histones, nucleoproteins, oxidative phosphorylation	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control genesis, cosmology, universe expansion, Olber's paradox world lines, curvature of space, red shift galactic evolution, evolutionary universe, element formation 1954 Mar p 54-63 genetic adaptation, human evolution, natural selection, civilization, culture, human evolution in man-made environment 1960 Sept p 206-217 [609] genetic code, DNA, double helix X-ray crystallography structure of DNA resolved 1954 Oct p 54-61 [5] codon, amino acid pairing DNA, RNA, Gamow proposes triplet codon 1955 Oct p 70-78 bacteria, protein synthesis, DNA, RNA, protein synthesis by bacterial DNA-RNA in vitro DNA, RNA, chromosome, protein synthesis, polymers molecular genetics as of mid-1957 1957 Sept p 188-200 [54] DNA base triplets, protein synthesis nucleotide sequence, codon, base
population genetics, Parma Valley, Italy evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98–107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80–94 [1074] gene recombination, 1951 Cold Spring Harbor conference 1951 Oct p 22–25 bacteria, sexual reproduction, conjugation, recombinant DNA, sexuality in bacteria 1956 July p 109–118 [50] bacteria, bacteriophage, conjugation, recombinant DNA, mechanisms of heredity and infection in bacteria 1961 June p 92–107 [89] gene regulation, DNA, chromosome puffs, insect chromosome, RNA synthesis, hormonal induction 1964 Apr p 50–58 [180] cell differentiation, nucleus transplantation clone, genetic engineering, somatic cell nucleus, gene complement, frog embryo 1968 Dec p 24–35 [1128] cell nucleus, chromatin, chromosomal proteins, DNA, histones, nucleoproteins, oxidative phosphorylation 1975 Feb p 46–57 [1315]	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control genesis, cosmology, universe expansion, Olber's paradox world lines, curvature of space, red shift galactic evolution, evolutionary universe, element formation 1954 Mar p 54-63 genetic adaptation, human evolution, natural selection, civilization, culture, human evolution in man-made environment 1960 Sept p 206-217 [609] genetic code, DNA, double helix X-ray crystallography structure of DNA resolved 1954 Oct p 54-61 [5] codon, amino acid pairing DNA, RNA, Gamow proposes triplet codon 1955 Oct p 70-78 bacteria, protein synthesis, DNA, RNA, protein synthesis by bacterial DNA-RNA in vitro DNA, RNA, chromosome, protein synthesis, polymers molecular genetics as of mid-1957 1957 Sept p 188-200 [54] DNA, base triplets, protein synthesis nucleotide sequence, codon, base triplet established as codon 1962 Oct p 66-74 [123]
population genetics, Parma Valley, Italy evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98–107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80–94 [1074] gene recombination, 1951 Cold Spring Harbor conference 1951 Oct p 22–25 bacteria, sexual reproduction, conjugation, recombinant DNA, sexuality in bacteria 1956 July p 109–118 [50] bacteria, bacteriophage, conjugation, recombinant DNA, mechanisms of heredity and infection in bacteria 1961 June p 92–107 [89] gene regulation, DNA, chromosome puffs, insect chromosome, RNA synthesis, hormonal induction 1964 Apr p 50–58 [180] cell differentiation, nucleus transplantation clone, genetic engineering, somatic cell nucleus, gene complement, frog embryo 1968 Dec p 24–35 [1128] cell nucleus, chromatin, chromosomal proteins, DNA, histones, nucleoproteins, oxidative phosphorylation 1975 Feb p 46–57 [1315] DNA operator, DNA repressor, gene expression, host-restriction	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control genesis, cosmology, universe expansion, Olber's paradox world lines, curvature of space, red shift galactic evolution, evolutionary universe, element formation genetic adaptation, human evolution, natural selection, civilization, culture, human evolution in man-made environment 1960 Sept p 206-217 [609] genetic code, DNA, double helix X-ray crystallography structure of DNA resolved 1954 Oct p 54-61 [5] codon, amino acid pairing DNA, RNA, Gamow proposes triplet codon DNA-RNA in vitro 1956 Mar p 42-46 DNA, RNA, chromosome, protein synthesis, polymers molecular genetics as of mid-1957 1957 Sept p 188-200 [54] DNA, base triplets, protein synthesis nucleotide sequence, codon, base triplet established as codon 1962 Oct p 66-74 [123] mRNA, tRNA, DNA, nbosome, protein synthesis, genetic code
population genetics, Parma Valley, Italy evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98–107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80–94 [1074] gene recombination, 1951 Cold Spring Harbor conference 1951 Oct p 22–25 bacteria, sexual reproduction, conjugation, recombinant DNA, sexuality in bacteria 1956 July p 109–118 [50] bacteria, bacteriophage, conjugation, recombinant DNA, mechanisms of heredity and infection in bacteria 1961 June p 92–107 [89] gene regulation, DNA, chromosome puffs, insect chromosome, RNA synthesis, hormonal induction 1964 Apr p 50–58 [180] cell differentiation, nucleus transplantation clone, genetic engineering, somatic cell nucleus, gene complement, frog embryo 1968 Dec p 24–35 [1128] cell nucleus, chromatin, chromosomal proteins, DNA, histones, nucleoproteins, oxidative phosphorylation 1975 Feb p 46–57 [1315] DNA operator, DNA repressor, gene expression, host-restriction endonuclease, operator-repressor system 1976 Jan p 64–76 [1333] cell receptors, endocrine hormones, hormonal action, protein synthesis,	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control genesis, cosmology, universe expansion, Olber's paradox world lines, curvature of space, red shift galactic evolution, evolutionary universe, element formation genetic adaptation, human evolution, natural selection, civilization, culture, human evolution in man-made environment 1960 Sept p 206-217 [609] genetic code, DNA, double helix X-ray crystallography structure of DNA resolved 1954 Oct p 54-61 [5] codon, amino acid pairing DNA, RNA, Gamow proposes triplet codon 1955 Oct p 70-78 bacteria, protein synthesis, DNA, RNA, protein synthesis by bacterial DNA-RNA in vitro 1956 Mar p 42-46 DNA, RNA, chromosome, protein synthesis, polymers molecular genetics as of mid-1957 1957 Sept p 188-200 [54] DNA, base triplets, protein synthesis nucleotide sequence, codon, base triplet established as codon 1962 Oct p 66-74 [123] mRNA, tRNA, DNA, ribosome, protein synthesis, genetic code elucidated amino acid 'dictionary' 1963 Mar p 80-94 [153]
population genetics, Parma Valley, Italy evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98–107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80–94 [1074] gene recombination, 1951 Cold Spring Harbor conference 1951 Oct p 22–25 bacteria, sexual reproduction, conjugation, recombinant DNA, sexuality in bacteria 1956 July p 109–118 [50] bacteria, bacteriophage, conjugation, recombinant DNA, mechanisms of heredity and infection in bacteria 1961 June p 92–107 [89] gene regulation, DNA, chromosome puffs, insect chromosome, RNA synthesis, hormonal induction 1964 Apr p 50–58 [180] cell differentiation, nucleus transplantation clone, genetic engineering, somatic cell nucleus, gene complement, frog embryo 1968 Dec p 24–35 [1128] cell nucleus, chromatin, chromosomal proteins, DNA, histones, nucleoproteins, oxidative phosphorylation 1975 Feb p 46–57 [1315] DNA operator, DNA repressor, gene expression, host-restriction endonuclease, operator-repressor system 1976 Jan p 64–76 [1333] cell receptors, endocrine hormones, hormonal action, protein synthesis, 1976 Feb p 32–43 [1334]	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control genesis, cosmology, universe expansion, Olber's paradox world lines, curvature of space, red shift galactic evolution, evolutionary universe, element formation genetic adaptation, human evolution, natural selection, civilization, culture, human evolution in man-made environment 1960 Sept p 206-217 [609] genetic code, DNA, double helix X-ray crystallography structure of DNA resolved 1954 Oct p 54-61 [5] codon, amino acid pairing DNA, RNA, Gamow proposes triplet codon 1955 Oct p 70-78 bacteria, protein synthesis, DNA, RNA, protein synthesis by bacterial DNA-RNA in vitro DNA, RNA, chromosome, protein synthesis, polymers molecular genetics as of mid-1957 1957 Sept p 188-200 [54] DNA, base triplets, protein synthesis nucleotide sequence, codon, base triplet established as codon 1962 Oct p 66-74 [123] mRNA, tRNA, DNA, ribosome, protein synthesis, genetic code elucidated, amino acid 'dictionary' 1963 Mar p 80-94 [153]
population genetics, Parma Valley, Italy evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98–107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80–94 [1074] gene recombination, 1951 Cold Spring Harbor conference 1951 Oct p 22–25 bacteria, sexual reproduction, conjugation, recombinant DNA, sexuality in bacteria 1956 July p 109–118 [50] bacteria, bacteriophage, conjugation, recombinant DNA, mechanisms of heredity and infection in bacteria 1961 June p 92–107 [89] gene regulation, DNA, chromosome puffs, insect chromosome, RNA synthesis, hormonal induction 1964 Apr p 50–58 [180] cell differentiation, nucleus transplantation clone, genetic engineering, somatic cell nucleus, gene complement, frog embryo 1968 Dec p 24–35 [1128] cell nucleus, chromatin, chromosomal proteins, DNA, histones, nucleoproteins, oxidative phosphorylation 1975 Feb p 46–57 [1315] DNA operator, DNA repressor, gene expression, host-restriction endonuclease, operator-repressor system 1976 Jan p 64–76 [1333] cell receptors, endocrine hormones, hormonal action, protein synthesis, steroid hormones 1976 Feb p 32–43 [1334] gene splicing, gene manipulation, National Academy of Sciences,	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control genesis, cosmology, universe expansion, Olber's paradox world lines, curvature of space, red shift galactic evolution, evolutionary universe, element formation genetic adaptation, human evolution, natural selection, civilization, culture, human evolution in man-made environment 1960 Sept p 206-217 [609] genetic code, DNA, double helix X-ray crystallography structure of DNA resolved 1954 Oct p 54-61 [5] codon, amino acid pairing DNA, RNA, Gamow proposes triplet codon 1955 Oct p 70-78 bacteria, protein synthesis, DNA, RNA, protein synthesis by bacterial DNA-RNA in vitro 1956 Mar p 42-46 DNA, RNA, chromosome, protein synthesis, polymers molecular genetics as of mid-1957 1957 Sept p 188-200 [54] DNA, base triplets, protein synthesis nucleotide sequence, codon, base triplet established as codon 1962 Oct p 66-74 [123] mRNA, tRNA, DNA, ribosome, protein synthesis, genetic code elucidated, amino acid 'dictionary' 1963 Mar p 80-94 [153] tobacco mosate virus, RNA nucleotides, protein synthesis, amino acid sequence, mutation relation of RNA mutations to amino acid
population genetics, Parma Valley, Italy evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98–107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80–94 [1074] gene recombination, 1951 Cold Spring Harbor conference 1951 Oct p 22–25 bacteria, sexual reproduction, conjugation, recombinant DNA, sexuality in bacteria 1956 July p 109–118 [50] bacteria, bacteriophage, conjugation, recombinant DNA, mechanisms of heredity and infection in bacteria 1961 June p 92–107 [89] gene regulation, DNA, chromosome puffs, insect chromosome, RNA synthesis, hormonal induction 1964 Apr p 50–58 [180] cell differentiation, nucleus transplantation clone, genetic engineering, somatic cell nucleus, gene complement, frog embryo 1968 Dec p 24–35 [1128] cell nucleus, chromatin, chromosomal proteins, DNA, histones, nucleoproteins, oxidative phosphorylation 1975 Feb p 46–57 [1315] DNA operator, DNA repressor, gene expression, host-restriction endonuclease, operator-repressor system 1976 Jan p 64–76 [1333] cell receptors, endocrine hormones, hormonal action, protein synthesis, steroid hormones 1976 Feb p 32–43 [1334] gene splicing, gene manipulation, National Academy of Sciences, recombinant DNA, science policy, NIH guidelines	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control genesis, cosmology, universe expansion, Olber's paradox world lines, curvature of space, red shift galactic evolution, evolutionary universe, element formation 1954 Mar p 54-63 genetic adaptation, human evolution, natural selection, civilization, culture, human evolution in man-made environment 1960 Sept p 206-217 [609] genetic code, DNA, double helix X-ray crystallography structure of DNA resolved 1954 Oct p 54-61 [5] codon, amino acid pairing DNA, RNA, Gamow proposes triplet codon 1955 Oct p 70-78 bacteria, protein synthesis, DNA, RNA, protein synthesis by bacterial DNA-RNA in vitro 1956 Mar p 42-46 DNA, RNA, chromosome, protein synthesis, polymers molecular genetics as of mid-1957 DNA, base triplets, protein synthesis nucleotide sequence, codon, base triplet established as codon 1962 Oct p 66-74 [123] mRNA, tRNA, DNA, ribosome, protein synthesis, genetic code elucidated, amino acid 'dictionary' 1963 Mar p 80-94 [153] tobacco mosaic virus, RNA nucleotides, protein synthesis, amino acid sequence, mutation relation of RNA mutations to amino acid chappes
population genetics, Parma Valley, Italy evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98–107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80–94 [1074] gene recombination, 1951 Cold Spring Harbor conference 1951 Oct p 22–25 bacteria, sexual reproduction, conjugation, recombinant DNA, sexuality in bacteria 1956 July p 109–118 [50] bacteria, bacteriophage, conjugation, recombinant DNA, mechanisms of heredity and infection in bacteria 1961 June p 92–107 [89] gene regulation, DNA, chromosome puffs, insect chromosome, RNA synthesis, hormonal induction 1964 Apr p 50–58 [180] cell differentiation, nucleus transplantation clone, genetic engineering, somatic cell nucleus, gene complement, frog embryo 1968 Dec p 24–35 [1128] cell nucleus, chromatin, chromosomal proteins, DNA, histones, nucleoproteins, oxidative phosphorylation 1975 Feb p 46–57 [1315] DNA operator, DNA repressor, gene expression, host-restriction endonuclease, operator-repressor system 1976 Jan p 64–76 [1333] cell receptors, endocrine hormones, hormonal action, protein synthesis, steroid hormones 1976 Feb p 32–43 [1334] gene splicing, gene manipulation, National Academy of Sciences, recombinant DNA, science policy, NIH guidelines 1977 July p 22–23 [1362]	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control genesis, cosmology, universe expansion, Olber's paradox world lines, curvature of space, red shift galactic evolution, evolutionary universe, element formation genetic adaptation, human evolution, natural selection, civilization, culture, human evolution in man-made environment 1960 Sept p 206-217 [609] genetic code, DNA, double helix X-ray crystallography structure of DNA resolved 1954 Oct p 54-61 [5] codon, amino acid pairing DNA, RNA, Gamow proposes triplet codon bacteria, protein synthesis, DNA, RNA, protein synthesis by bacterial DNA-RNA in vitro 1956 Mar p 42-46 DNA, RNA, chromosome, protein synthesis, polymers molecular genetics as of mid-1957 1957 Sept p 188-200 [54] DNA, base triplets, protein synthesis nucleotide sequence, codon, base triplet established as codon mRNA, tRNA, DNA, nibosome, protein synthesis, genetic code elucidated, amino acid 'dictionary' 1963 Mar p 80-94 [153] tobacco mosaic virus, RNA nucleotides, protein synthesis, amino acid sequence, mutation relation of RNA mutations to amino acid changes antibutics, protein synthesis, streptomycin, ribosome DNA, RNA,
population genetics, Parma Valley, Italy evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98–107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80–94 [1074] gene recombination, 1951 Cold Spring Harbor conference 1951 Oct p 22–25 bacteria, sexual reproduction, conjugation, recombinant DNA, sexuality in bacteria 1956 July p 109–118 [50] bacteria, bacteriophage, conjugation, recombinant DNA, mechanisms of heredity and infection in bacteria 1961 June p 92–107 [89] gene regulation, DNA, chromosome puffs, insect chromosome, RNA synthesis, hormonal induction 1964 Apr p 50–58 [180] cell differentiation, nucleus transplantation clone, genetic engineering, somatic cell nucleus, gene complement, frog embryo 1968 Dec p 24–35 [1128] cell nucleus, chromatin, chromosomal proteins, DNA, histones, nucleoproteins, oxidative phosphorylation 1975 Feb p 46–57 [1315] DNA operator, DNA repressor, gene expression, host-restriction endonuclease, operator-repressor system 1976 Jan p 64–76 [1333] cell receptors, endocrine hormones, hormonal action, protein synthesis, steroid hormones 1976 Feb p 32–43 [1334] gene structure, DNA, E coli, nucleotide sequence, viral DNA bacterial 1977 Dec p 54–67 [1374]	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control 1974 Nov p 34-44 genesis, cosmology, universe expansion, Olber's paradox world lines, curvature of space, red shift galactic evolution, evolutionary universe, element formation 1954 Mar p 54-63 genetic adaptation, human evolution, natural selection, civilization, culture, human evolution in man-made environment 1960 Sept p 206-217 [609] genetic code, DNA, double helix X-ray crystallography structure of DNA resolved 1954 Oct p 54-61 [5] codon, amino acid pairing DNA, RNA, Gamow proposes triplet codon 1955 Oct p 70-78 bacteria, protein synthesis, DNA, RNA, protein synthesis by bacterial DNA-RNA in vitro 1956 Mar p 42-46 DNA, RNA, chromosome, protein synthesis, polymers molecular genetics as of mid-1957 1957 Sept p 188-200 [54] DNA, base triplets, protein synthesis nucleotide sequence, codon, base triplet established as codon 1962 Oct p 66-74 [123] mRNA, tRNA, DNA, inbosome, protein synthesis, genetic code elucidated, amino acid 'dictionary' 1963 Mar p 80-94 [153] tobacco mosaic virus, RNA nucleotides, protein synthesis, amino acid sequence, mutation relation of RNA mutations to amino acid changes antibiotics, protein synthesis, streptomycin, ribosome DNA, RNA, mutation, 'misreadings' induced by antibiotic alterations of
population genetics, Parma Valley, Italy evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98–107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80–94 [1074] gene recombination, 1951 Cold Spring Harbor conference 1951 Oct p 22–25 bacteria, sexual reproduction, conjugation, recombinant DNA, sexuality in bacteria 1956 July p 109–118 [50] bacteria, bacteriophage, conjugation, recombinant DNA, mechanisms of heredity and infection in bacteria 1961 June p 92–107 [89] gene regulation, DNA, chromosome puffs, insect chromosome, RNA synthesis, hormonal induction 1964 Apr p 50–58 [180] cell differentiation, nucleus transplantation clone, genetic engineering, somatic cell nucleus, gene complement, frog embryo 1968 Dec p 24–35 [1128] cell nucleus, chromatin, chromosomal proteins, DNA, histones, nucleoproteins, oxidative phosphorylation 1975 Feb p 46–57 [1315] DNA operator, DNA repressor, gene expression, host-restriction endonuclease, operator-repressor system 1976 Jan p 64–76 [1333] cell receptors, endocrine hormones, hormonal action, protein synthesis, steroid hormones 1976 Feb p 32–43 [1334] gene splicing, gene manipulation, National Academy of Sciences, recombinant DNA, science policy, NIH guidelines 1977 July p 22–23 [1362] gene structure, DNA, E coli, nucleotide sequence, viral DNA bacterial virus 0×174, plus-and-minus method 1977 Dec p 54–67 [1374]	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control genesis, cosmology, universe expansion, Olber's paradox world lines, curvature of space, red shift galactic evolution, evolutionary universe, element formation genetic adaptation, human evolution, natural selection, civilization, culture, human evolution in man-made environment 1960 Sept p 206-217 [609] genetic code, DNA, double helix X-ray crystallography structure of DNA resolved 1954 Oct p 54-61 [5] codon, amino acid pairing DNA, RNA, Gamow proposes triplet codon 1955 Oct p 70-78 bacteria, protein synthesis, DNA, RNA, protein synthesis by bacterial DNA-RNA in vitro DNA, RNA, chromosome, protein synthesis, polymers molecular genetics as of mid-1957 1957 Sept p 188-200 [54] DNA, base triplets, protein synthesis nucleotide sequence, codon, base triplet established as codon 1962 Oct p 66-74 [123] mRNA, tRNA, DNA, ribosome, protein synthesis, genetic code elucidated, amino acid 'dictionary' 1963 Mar p 80-94 [153] tobacco mosaic virus, RNA nucleotides, protein synthesis, amino acid sequence, mutation relation of RNA mutations to amino acid changes 1964 Oct p 46-54 [193] antibiotics, protein synthesis, streptomycin, ribosome DNA, RNA, mutation, 'misreadings' induced by antibiotic alterations of
population genetics, Parma Valley, Italy evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98–107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80–94 [1074] gene recombination, 1951 Cold Spring Harbor conference 1951 Oct p 22–25 bacteria, sexual reproduction, conjugation, recombinant DNA, sexuality in bacteria 1956 July p 109–118 [50] bacteria, bacteriophage, conjugation, recombinant DNA, mechanisms of heredity and infection in bacteria 1961 June p 92–107 [89] gene regulation, DNA, chromosome puffs, insect chromosome, RNA synthesis, hormonal induction 1964 Apr p 50–58 [180] cell differentiation, nucleus transplantation clone, genetic engineering, somatic cell nucleus, gene complement, frog embryo 1968 Dec p 24–35 [1128] cell nucleus, chromatin, chromosomal proteins, DNA, histones, nucleoproteins, oxidative phosphorylation DNA operator, DNA repressor, gene expression, host-restriction endonuclease, operator-repressor system 1975 Feb p 46–57 [1315] DNA operator, DNA repressor, gene expression, host-restriction endonuclease, operator-repressor system 1976 Jan p 64–76 [1333] cell receptors, endocrine hormones, hormonal action, protein synthesis, steroid hormones 1976 Feb p 32–43 [1334] gene splicing, gene manipulation, National Academy of Sciences, recombinant DNA, science policy, NIH guidelines 1977 July p 22–23 [1362] gene structure, DNA, E coli, nucleotide sequence, viral DNA bacterial virus 0×174, plus-and-minus method 1977 Dec p 54–67 [1374] gene synthesis, alanine transfer RNA gene	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control genesis, cosmology, universe expansion, Olber's paradox world lines, curvature of space, red shift galactic evolution, evolutionary universe, element formation genetic adaptation, human evolution, natural selection, civilization, culture, human evolution in man-made environment 1960 Sept p 206-217 [609] genetic code, DNA, double helix X-ray crystallography structure of DNA resolved 1954 Oct p 54-61 [5] codon, amino acid pairing DNA, RNA, Gamow proposes triplet codon 1955 Oct p 70-78 bacteria, protein synthesis, DNA, RNA, protein synthesis by bacterial DNA-RNA in vitro DNA, RNA, chromosome, protein synthesis, polymers molecular genetics as of mid-1957 1957 Sept p 188-200 [54] DNA, base triplets, protein synthesis nucleotide sequence, codon, base triplet established as codon 1962 Oct p 66-74 [123] mRNA, tRNA, DNA, ribosome, protein synthesis, genetic code elucidated, amino acid 'dictionary' 1963 Mar p 80-94 [153] tobacco mosate virus, RNA nucleotides, protein synthesis, amino acid changes 1964 Oct p 46-54 [193] antibiotics, protein synthesis, streptomycin, ribosome DNA, RNA, mutation, 'misreadings' induced by antibiotic alterations of ribosomes
population genetics, Parma Valley, Italy evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98–107 [1172] gene-protein colinearity, protein structure, ammo-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80–94 [1074] gene recombination, 1951 Cold Spring Harbor conference 1951 Oct p 22–25 bacteria, sexual reproduction, conjugation, recombinant DNA, sexuality in bacteria 1956 July p 109–118 [50] bacteria, bacteriophage, conjugation, recombinant DNA, mechanisms of heredity and infection in bacteria 1961 June p 92–107 [89] gene regulation, DNA, chromosome puffs, insect chromosome, RNA synthesis, hormonal induction 1964 Apr p 50–58 [180] cell differentiation, nucleus transplantation clone, genetic engineering, somatic cell nucleus, gene complement, frog embryo 1968 Dec p 24–35 [1128] cell nucleus, chromatin, chromosomal proteins, DNA, histones, nucleoproteins, oxidative phosphorylation 1975 Feb p 46–57 [1315] DNA operator, DNA repressor, gene expression, host-restriction endonuclease, operator-repressor system 1976 Jan p 64–76 [1333] cell receptors, endocrine hormones, hormonal action, protein synthesis, steroid hormones 1976 Feb p 32–43 [1334] gene splicing, gene manipulation, National Academy of Sciences, recombinant DNA, science policy, NIH guidelines 1977 July p 22–23 [1362] gene structure, DNA, E coli, nucleotide sequence, viral DNA bacterial virus 0×174, plus-and-minus method 1977 Dec p 54–67 [1374] gene synthesis, alanine transfer RNA gene gene transcription, mRNA, protein synthesis, the RNA messenger from gene transcription, mRNA, protein synthesis, the RNA messenger from gene transcription, mRNA, protein synthesis, the RNA messenger from	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control genesis, cosmology, universe expansion, Olber's paradox world lines, curvature of space, red shift galactic evolution, evolutionary universe, element formation genetic adaptation, human evolution, natural selection, civilization, culture, human evolution in man-made environment 1960 Sept p 206-217 [609] genetic code, DNA, double helix X-ray crystallography structure of DNA resolved 1954 Oct p 54-61 [5] codon, amino acid pairing DNA, RNA, Gamow proposes triplet codon bacteria, protein synthesis, DNA, RNA, protein synthesis by bacterial DNA-RNA in vitro 1956 Mar p 42-46 DNA, RNA, chromosome, protein synthesis, polymers molecular genetics as of mid-1957 1957 Sept p 188-200 [54] DNA, base triplets, protein synthesis nucleotide sequence, codon, base triplet established as codon 1962 Oct p 66-74 [123] mRNA, tRNA, DNA, ribosome, protein synthesis, genetic code elucidated, amino acid 'dictionary' 1963 Mar p 80-94 [153] tobacco mosaic virus, RNA nucleotides, protein synthesis, amino acid sequence, mutation relation of RNA mutations to amino acid changes 1964 Oct p 46-54 [193] antibiotics, protein synthesis, streptomycin, ribosome DNA, RNA, mutation, 'misreadings' induced by antibiotic alterations of ribosomes 1966 Apr p 102-109 amino acids, DNA, protein synthesis, mutation molecular biology, triplets, RNA, anticodon ribosomes, triplets wobble hypothesis
population genetics, Parma Valley, Italy evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98–107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base gene recombination, 1951 Cold Spring Harbor conference 1951 Oct p 22–25 bacteria, sexual reproduction, conjugation, recombinant DNA, sexuality in bacteria 1956 July p 109–118 [50] bacteria, bacteriophage, conjugation, recombinant DNA, mechanisms of heredity and infection in bacteria 1961 June p 92–107 [89] gene regulation, DNA, chromosome puffs, insect chromosome, RNA synthesis, hormonal induction 1964 Apr p 50–58 [180] cell differentiation, nucleus transplantation clone, genetic engineering, somatic cell nucleus, gene complement, frog embryo 1968 Dec p 24–35 [1128] cell nucleus, chromatin, chromosomal proteins, DNA, histones, nucleoproteins, oxidative phosphorylation 1975 Feb p 46–57 [1315] DNA operator, DNA repressor, gene expression, host-restriction endonuclease, operator-repressor system 1976 July p 46–476 [1333] cell receptors, endocrine hormones, hormonal action, protein synthesis, steroid hormones 1976 Feb p 32–43 [1334] gene splicing, gene manipulation, National Academy of Sciences, recombinant DNA, science policy, NIH guidelines 1977 July p 22–23 [1362] gene structure, DNA, E coli, nucleotide sequence, viral DNA bacterial virus 0×174, plus-and-minus method 1977 Dec p 54–67 [1374] gene synthesis, alanine transfer RNA gene gene transcription, mRNA, protein synthesis, the RNA messenger from 1962 Feb p 41–49 [119] gene to protein synthesis	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control genesis, cosmology, universe expansion, Olber's paradox world lines, curvature of space, red shift galactic evolution, evolutionary universe, element formation genetic adaptation, human evolution, natural selection, civilization, culture, human evolution in man-made environment 1960 Sept p 206-217 [609] genetic code, DNA, double helix X-ray crystallography structure of DNA resolved 1954 Oct p 54-61 [5] codon, amino acid pairing DNA, RNA, Gamow proposes triplet codon 1955 Oct p 70-78 bacteria, protein synthesis, DNA, RNA, protein synthesis by bacterial DNA-RNA in vitro 1956 Mar p 42-46 DNA, RNA, chromosome, protein synthesis, polymers molecular genetics as of mid-1957 1957 Sept p 188-200 [54] DNA, base triplets, protein synthesis nucleotide sequence, codon, base triplet established as codon 1962 Oct p 66-74 [123] mRNA, tRNA, DNA, ribosome, protein synthesis, genetic code elucidated, amino acid 'dictionary' 1963 Mar p 80-94 [153] tobacco mosaic virus, RNA nucleotides, protein synthesis, amino acid sequence, mutation relation of RNA mutations to amino acid changes 1964 Oct p 46-54 [193] antibiotics, protein synthesis, streptomycin, ribosome DNA, RNA, mutation, 'misreadings' induced by antibiotic alterations of ribosomes 1966 Apr p 102-109 amino acids, DNA, protein synthesis, mutation molecular biology, triplets, RNA, anticodon ribosomes, triplets wobble hypothesis 1966 Oct p 55-62 [1052] cell communication, communication nerve impulse, hormonal action,
population genetics, Parma Valley, Italy evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80-94 [1074] gene recombination, 1951 Cold Spring Harbor conference lost Oct p 22-25 bacteria, sexual reproduction, conjugation, recombinant DNA, sexuality in bacteria 1956 July p 109-118 [50] bacteria, bacteriophage, conjugation, recombinant DNA, mechanisms of heredity and infection in bacteria 1961 June p 92-107 [89] gene regulation, DNA, chromosome puffs, insect chromosome, RNA synthesis, hormonal induction 1964 Apr p 50-58 [180] cell differentiation, nucleus transplantation clone, genetic engineering, somatic cell nucleus, gene complement, frog embryo 1968 Dec p 24-35 [1128] cell nucleus, chromatin, chromosomal proteins, DNA, histones, nucleoproteins, oxidative phosphorylation 1975 Feb p 46-57 [1315] DNA operator, DNA repressor, gene expression, host-restriction endonuclease, operator-repressor system 1976 Jan p 64-76 [1333] cell receptors, endocrine hormones, hormonal action, protein synthesis, steroid hormones 1976 Feb p 32-43 [1334] gene splicing, gene manipulation, National Academy of Sciences, recombinant DNA, science policy, NIH guidelines 1977 July p 22-23 [1362] gene structure, DNA, E coli, nucleotide sequence, viral DNA bacterial virus 0×174, plus-and-minus method 1977 Dec p 54-67 [1374] 1970 Dec p 54-67 [1374] 1	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control genesis, cosmology, universe expansion, Olber's paradox world lines, curvature of space, red shift galactic evolution, evolutionary universe, element formation genetic adaptation, human evolution, natural selection, civilization, culture, human evolution in man-made environment 1960 Sept p 206-217 [609] genetic code, DNA, double helix X-ray crystallography structure of DNA resolved 1954 Oct p 54-61 [5] codon, amino acid pairing DNA, RNA, Gamow proposes triplet codon bacteria, protein synthesis, DNA, RNA, protein synthesis by bacterial DNA-RNA in vitro 1956 Mar p 42-46 DNA, RNA, chromosome, protein synthesis, polymers molecular genetics as of mid-1957 1957 Sept p 188-200 [54] DNA, base triplets, protein synthesis nucleotide sequence, codon, base triplet established as codon 1962 Oct p 66-74 [123] mRNA, tRNA, DNA, ribosome, protein synthesis, genetic code elucidated, amino acid 'dictionary' 1963 Mar p 80-94 [153] tobacco mosaic virus, RNA nucleotides, protein synthesis, amino acid sequence, mutation relation of RNA mutations to amino acid changes 1964 Oct p 46-54 [193] antibiotics, protein synthesis, streptomycin, ribosome DNA, RNA, mutation, 'misreadings' induced by antibiotic alterations of ribosomes 1966 Apr p 102-109 amino acids, DNA, protein synthesis, mutation molecular biology, triplets, RNA, anticodon ribosomes, triplets wobble hypothesis
population genetics, Parma Valley, Italy evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80–94 [1074] gene recombination, 1951 Cold Spring Harbor conference lost Oct p 22–25 bacteria, sexual reproduction, conjugation, recombinant DNA, sexuality in bacteria 1955 July p 109–118 [50] bacteria, bacteriophage, conjugation, recombinant DNA, mechanisms of heredity and infection in bacteria 1961 June p 92–107 [89] gene regulation, DNA, chromosome puffs, insect chromosome, RNA synthesis, hormonal induction 1964 Apr p 50–58 [180] cell differentiation, nucleus transplantation clone, genetic engineering, somatic cell nucleus, gene complement, frog embryo 1968 Dec p 24–35 [1128] cell nucleus, chromatin, chromosomal proteins, DNA, histones, nucleoproteins, oxidative phosphorylation DNA operator, DNA repressor, gene expression, host-restriction endonuclease, operator-repressor system 1976 Jan p 64–76 [1333] cell receptors, endocrine hormones, hormonal action, protein synthesis, steroid hormones gene splicing, gene manipulation, National Academy of Sciences, recombinant DNA, science policy, NIH gundelines yirus 0 × 174, plus-and-minus method 1977 Dec p 54–67 [1374] gene synthesis, alanine transfer RNA gene gene transcription, mRNA, protein synthesis, the RNA messenger from 1962 Feb p 41–49 [119] gene to protein synthesis hybrid cells, DNA, RNA, ribosomal RNA, gene complement, density-protein synthesis gradient centrifugation, DNA-RNA hybridization experiments	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control genesis, cosmology, universe expansion, Olber's paradox world lines, curvature of space, red shift galactic evolution, evolutionary universe, element formation genetic adaptation, human evolution, natural selection, civilization, culture, human evolution in man-made environment 1960 Sept p 206-217 [609] genetic code, DNA, double helix X-ray crystallography structure of DNA resolved 1954 Oct p 54-61 [5] codon, amino acid pairing DNA, RNA, Gamow proposes triplet codon 1955 Oct p 70-78 bacteria, protein synthesis, DNA, RNA, protein synthesis by bacterial DNA-RNA in vitro 1956 Mar p 42-46 DNA, RNA, chromosome, protein synthesis, polymers molecular genetics as of mid-1957 1957 Sept p 188-200 [54] DNA, base triplets, protein synthesis nucleotide sequence, codon, base triplet established as codon 1962 Oct p 66-74 [123] mRNA, tRNA, DNA, ribosome, protein synthesis, genetic code elucidated, amino acid 'dictionary' 1963 Mar p 80-94 [153] tobacco mosaic virus, RNA nucleotides, protein synthesis, amino acid sequence, mutation relation of RNA mutations to amino acid changes 1964 Oct p 46-54 [193] antibiotics, protein synthesis, streptomycin, ribosome DNA, RNA, mutation, 'misreadings' induced by antibiotic alterations of ribosomes 1966 Apr p 102-109 amino acids, DNA, protein synthesis, mutation molecular biology, triplets, RNA, anticodon ribosomes, triplets wobble hypothesis 1966 Oct p 55-62 [1052] cell communication, communication nerve impulse, hormonal action,
population genetics, Parma Valley, Italy evolution, mutation, genetic load electrophoresis, population genetics, heterozygosty 1970 Mar p 98–107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80–94 [1074] gene recombination, 1951 Cold Spring Harbor conference 1951 Oct p 22–25 bacteria, sexual reproduction, conjugation, recombinant DNA, sexuality in bacteria 1956 July p 109–118 [50] bacteria, bacteriophage, conjugation, recombinant DNA, mechanisms of heredity and infection in bacteria 1961 June p 92–107 [89] gene regulation, DNA, chromosome puffs, insect chromosome, RNA synthesis, hormonal induction 1964 Apr p 50–58 [180] cell differentiation, nucleus transplantation clone, genetic engineering, somatic cell nucleus, gene complement, frog embryo 1968 Dec p 24–35 [1128] cell nucleus, chromatin, chromosomal proteins, DNA, histones, nucleoproteins, oxidative phosphorylation 1975 Feb p 46–57 [1315] DNA operator, DNA repressor, gene expression, host-restriction endonuclease, operator-repressor system 1976 Jan p 64–76 [1333] cell receptors, endocrine hormones, hormonal action, protein synthesis, steroid hormones 1976 Feb p 32–43 [1334] gene splicing, gene manipulation, National Academy of Sciences, recombinant DNA, science policy, NIH guidelines 1977 July p 22–23 [1362] gene structure, DNA, E coli, nucleotide sequence, viral DNA bacterial virus 0×174, plus-and-minus method 1977 Dec p 54–67 [1374] gene synthesis, alanine transfer RNA gene gene transcription, mRNA, protein synthesis, the RNA messenger from gene to protein synthesis 1976 Feb p 41–49 [119] gene to protein synthesis hybrid cells, DNA, RNA, ribosomal RNA, gene complement, density-	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control genesis, cosmology, universe expansion, Olber's paradox world lines, curvature of space, red shift galactic evolution, evolutionary universe, element formation genetic adaptation, human evolution, natural selection, civilization, culture, human evolution in man-made environment 1960 Sept p 206-217 [609] genetic code, DNA, double helix X-ray crystallography structure of DNA resolved 1954 Oct p 54-61 [5] codon, amino acid pairing DNA, RNA, Gamow proposes triplet codon 1955 Oct p 70-78 bacteria, protein synthesis, DNA, RNA, protein synthesis by bacterial DNA-RNA in vitro 1956 Mar p 42-46 DNA, RNA, chromosome, protein synthesis, polymers molecular genetics as of mid-1957 1957 Sept p 188-200 [54] DNA, base triplets, protein synthesis nucleotide sequence, codon, base triplet established as codon 1962 Oct p 66-74 [123] mRNA, tRNA, DNA, ribosome, protein synthesis, genetic code elucidated, amino acid 'dictionary' 1963 Mar p 80-94 [153] tobacco mosaic virus, RNA nucleotides, protein synthesis, amino acid sequence, mutation relation of RNA mutations to amino acid changes 1964 Oct p 46-54 [193] antibiotics, protein synthesis, streptomycin, ribosome DNA, RNA, mutation, 'misreadings' induced by antibiotic alterations of ribosomes 1966 Apr p 102-109 amino acids, DNA, protein synthesis, mutation molecular biology, triplets, RNA, anticodon ribosomes, triplets wobble hypothesis 1966 Oct p 55-62 [1052] cell communication, communication nerve impulse, hormonal action,

DNA, poliomyelitis virus, protein synthesis,	RNA, virus multiplication,	genetic load, evolution, gene pool, mutation, electrophoresis, pop genetics, heterozygosity 1970 Mar p 98-1	ulation 07 [1172]
virus structure	1975 May p 24-31	g	uly p 66
recombinant DNA	1960 July p 82 1963 Jan p 61	genetic mosaic, chromosomal anomalies, gynandromorphism, ch	
coding specificity of sRNA	1963 Aug. p 49	organisms with tissue cells of different genes 1960 May p	118-130
DNA codons universal DNA, codon has three nucleotides	1964 Mar p 54	Barr body, sex differences, chromosome, cytology, Klinefelter's	S
streptomycin	1964 July p 44	syndrome, Turner's syndrome, chromosomal anomalies, sex	
GUU for valine	1964 Sept p 82	differences in tissue cells 1963 July p 54	
nonsense-codon punctuation	1965 Aug p 43	fruit fly, gene loci, genetics of behavior, insect behavior, mutan	
amino acid-codon structural fit	1966 June p 56	1973 Dec p 24-	ov p 70
gene-protein relation	1966 July p 50		Apr p 50
uniformity	1967 Apr p 48 1968 Apr p 44		eb p 67
UGA means stop	1969 Nov p 58	genetic traits, curiosity, rhesus monkeys, problem solving, anima	
enetic code confirmation, virus R17 genetic convergence, continental drift, speciat		behavior 1954 Feb	
radiation, Gondwanaland, Laurasia, mar	nmalian evolution.	genetic transduction, carcinogenesis, polyoma virus, recombinant	DNA,
supercontinent breakup and animal diver	rsification	virus disease, 'temperate' infection, viral induced malignanc	}
•	1969 Mar p 54-64 [877]	1960 Nov p 6	
genetic defect, Down's syndrome, chromoson	nal anomalies, Klinefelter's	genetic variation, influenza virus immunization, chick-embryo cu	
syndrome, trisomy 21, meiosis, mitosis, g	ene translocation,	hemagglutination, vaccine, difficulty in securing flu immunii 1953 Apr	
nondisjunction, afflictions associated wit	n abnormal chromosome	camouflage, evolution, melanism, moths, speciation, air polluti	-
complement genetic disease, neurospora, mutation, natura	1961 Nov p 66–76 [150]	population genetics, mutation, evolution observed	,011,
Mendelian inheritance, tryptophan-niaci	n relation, one gene-one	1959 Mar p 48	-53 [842]
enzyme hypothesis, selection for defect	1948 Sept p 30-39 [1]	anthropology, human evolution, steatopygia, climate, human	
mutation, teratogenesis, studied for clues to		migration, race, population, ancient migration and human d	iversity
	1950 June p 16-19	1960 Sept p 112-	127 [604]
sensory perception, inherited sense defects	1952 May p 64-70 [406]	apes, fossil primates, human evolution, population genetics	102 (474)
erothrocyte, sickle cell disease gene mutati	on, single gene-single	1972 Jan p 94	
aminoacid deletion	1958 Jan. p 68–74	gene mutation, natural selection, polymorphism, mollusk shell biological diversity, discontinuous variation	5,
congenital anomalies, hemophilia, epidemi Victoria's descendants	1965 Aug. p 88–95	1975 Aug p 50–	60 [1326]
ateliosis, midgets, pituitary insufficiency, d		cat color, human migration, gene mutation, population genetic	
anomalies, consanguinity, growth hormo	one deficiency,	maps, Hardy-Weinberg equilibrium 1977 Nov p 100-1	
panhypopituitarism, General Tom Thur	nb 1967 July p 102-110	genetics, corn, teosinte, tripsacum, pod corn, popcorn, hybrid cel	
heredity, porphyria, metabolic disease, Ge	orge III	World archeology, plant genetic experiment and archeologic	
	1969 July p 38–46 [1149]	point to pool corn as wild ancester of maise 1950 July p 2	
behavior, encephalitis, hyperactive child, t		bacteriophage, reproduction, tracer experiments, DNA, protein 1953 May	
possibly innate disease syndrome chromosome, gene mapping, autosomes, c	1970 Apr p 94–98 [527] hromosomal anomalies	Lysenko, potato virus, virus disease, vernalization, agronomy,	
emoniosome, gene mapping, autosomes, e	1971 Apr p 104–113 [1220]	Lysenko affair 1962 Nov	
amniocentesis, enzyme deficiency, prenata			Dec p 62
hemophilia, Down's syndrome, Tay-Sac	chs disease, chromosomal	see also plant genetics, population genetics and the like, muta	tion,
anomalies	1971 Nov p 34–42 [1234]	reproduction	
enzyme deficiency, milk sugar, lactose tole problem	1972 Oct. p 70–78 [1259]	genetics of behavior, fruit fly, gene loci, insect behavior, genetic in mutants 1973 Dec p 24-	
enzyme deficiency, fat metabolism, amnic		genocide, cultural anthropology, racial discrimination, Tasmania	<i>31</i> {1203] ms
lipids, lipid storage diseases, 10 lipid st		Yumbri, Yamana, vanishing primitive cultures 1957 May	p 39-45
	1973 Aug p 88-97	Aleuts, Eskimo, Aleutian Islands, Aleuts as 'Southern Eskimos	;
color blindness, cone cells, fovea, retinal i		1958 Nov p	
pigments	1975 Mar p 64-74 [1317]	racial discrimination, Amerindian, cultural assimilation, civil r	
chemotherapy, cyanate, anemia, hemoglo disease	1975 Apr p 44–50 [1319]	persisting identity of Amerindians 1960 Feb genome size, DNA repeat segments, evolution, sDNA, DNA-RN	p 37–45
liposome package treatment of lysosomal		hybridization 1970 Apr p 24	IA 31 [1172]
genetic drift, Dunkers, endogamous group,	ear lobes, blood typing, 'hitch-	genotype, phenotype, gene expression, mutation 1949 Oct	
hiker's' thumb	1953 Aug. p 76-81 [1062]	Lysenkoism, Lamarck, acquired characteristics, evolution, phe	notype,
blood typing, Judaism, racial discriminat		mutation ostrich calluses, speciation, religion, orthodoxy,	
social evolution population genetics, J	ewish community of Rome 1957 Mar p 118–128	Darwinism, experiments in acquired characteristics	
blood groups, mutation consanguinity, g	ene pool evolution	1953 Dec geochemical cycle, sea-floor spreading volcanoes rain, sea water	p 92–99
population genetics, Parma Valley, Ital	ly 1969 Aug. p 30–37	composition, salinity, carbonate, hydrologic cycle, why the s	ea ic colt
human population race, population gene	etics, serum protein analysis	1970 Nov p 104_	115 [839]
Monoto 11 1 cc	1974 Sept p 80-89	atmosphere, Earth crust, hydrologic cycle, lithospheric cycle	-
genetic engineering, cell differentiation nu- somatic cell nucleus, gene complement	cleus transplantation, clone,	1974 June p 72	-79 [414]
somatic cen nacicus, gene complement	1968 Dec p 24-35 [1128]	geochemistry, volcanoes, geophysics, their physics, chemistry, distribution and role in geological processes 1951 Nov	
frog eggs gene expression, hemoglobin, i	mRNA, RNA molecule	geochronology, geology, seismology, Earth science, science Earth	p 45–52
	1976 Aug p 60-71 [1343]	Earn mantle, ocean floor, geology 1900-1950 1950 Sept	n 26 20
algae, bacteria, legumes nitrogen fixatio	n nitrogenase, Haber process	fission-track dating, glass age, meteorite age, mineral age, potter	P 30-33
rhizobium legumes symbiosis, nitrogifixation		1976 Dec p	114-122
passenger virus	1977 Mar p 68-81 1967 Feb p 57	geochionometry, coral, dailing by coral orough tinge 1042 y	f 70
'new eugenics'	1969 July p 50	geographical distribution, birds speciation, ornithology, behavior adaptation, bird migration adaptation, provinciality of bird.	al
rabbit hemoglobin in frog cell	1071 1700 70 40	1057 11.	110 100
see also gene manipulation gene splicin genetic exchange, bacteriophage sexual re	g, recombinant DNA	head manuferrus, reast-action principle natural history life - 1	110-128 Norl of
	1948 Nov p 46–51	Pierre-Louis Moreau de Maupertuis 1955 Oct p	100-110
	12-04 d 101 b 40-31	P	

artificial satellite, Farth, orbital motion, equatorial bulge, shape of th	in British West Indies 1951 Oct p. 38
Farth, gravitation anomalies, Vening-Meinesz apparatus, Larth's	[23] geothermal power, Earth heat, electric power generation 1951 Oct p 38
gravity 1955 Sent in 164 to	1972 Ian n 70_77 (898)
pear-shaped longitudes, elliptical latitudes 1961 New 2	2) New Zealand installation 1957 Dec. p. 62
geold: pear-shaped, Vanguard satellite measurements 1950 Mar.	so — the state of
geological record, chloroplast, oxygen cycle, photosynthesis, hosphare	phototropism, touch orientation 1955 Feb p 100-106 germ-free environment, dental research, immune response, surgical
aerone metabolism, ozone, oxidation-reduction reactions, oxygen-	1501.1107
carbon balance 1970 Sept p 110-123 [119	germ theory, immunity, variable host, infection, germ-free animals
geology, seismology, Earth science, science, Earth core, Larth mantle, geochronology, ocean floor, geology 1900-1950 1950 Sept p 36-	1955 May p. 31–35
continental shelf, continental terrace, onlap process, offlap process	the state of the sea of the sections
1955 Mar n 62-86 (80	SI permanium relicitus absociation and 1952 Feb p 38
evolution, science history, Lyell, Charles Lyell, biography	charle trade days of solid-state electronics 1048 Sept. p. 52-55
1959 Aug p 98-106 [84	germanium crystal, junction transistor, 'doping', triode
tectonic processes, mathematical model, scaling block fault, geosyncline, experimental geology 1961 Feb p. 96-10	1952 July p 28-32
geosyncline, experimental geology 1961 Feb p 96-10 Antarctica, glaciation, seismology, seismic mapping, Antarctic land	y the second of
mass, part continent-part archipelago 1962 Sept. p. 151-16	chemical industry, recovering from war 1949 June p 28 germination, plant hormones, flowering, photoperiodicity, phototropism
Antarctica, fossil fauna, fossil flora, paleontology, Glossopteris, coal,	1949 May n 40-43
continental drift evidence 1962 Sept. p. 168-184 1863	adaptation, seed dispersal, dormancy 1959 Apr p 75-84
minerals, fluid inclusions, Earth history, ancient fluids in crystals	plant growth, phytochrome, photoperiodicity, pigments, pigment,
1962 Oct p 38-47 [854] geomagnetic reversals, magnetic field, volcanic rocks, paleomagnetism.	the state of the s
sea-floor spreading, reversals of Larth's magnetic field	seed, sprout after 800 year 1951 Nov p 34 seed, artic lupine after 10 00 years 1967 Dec p 55
1967 Feb p 44_54	gerontology, aging, cell physiology, life expectancy, manifestations of
geomagnetic storms, Sun, solar flares, ionospheric storms, aurora,	aging 1962 Jan p 100-110
sunspots 1951 Dec p 17-21	
geomagnetism, permanent magnets, electromagnetism, Blackett hypothesis, Elsasser-Bullard hypothesis, theories on origin of	health guidelines 1952 Aug p 32
terrestrial magnetism 1950 June p 20-24	gerry mander, reapportionment, redistricting, elections, representative government, computer applications 1965 Nov p 20-27
Earth, remanent magnetism, wandering poles, magnetic reversals,	Gestalt psychology, retina, vision, visual perception, learning, stabilized
Earth's magnetism 1955 Sept p 1\$2–162	retinal images, evidence for perceptual theories
geophysics, electromagnetism, magnetohydrodynamics, convection	1961 June p 72–78 [466]
currents, Earth core, origin of terrestial magnetism 1958 May p 44-48	visual perception, moon illusion, apparent distance theory, explanation of a familiar illusion 1962 July p 120–130 [462]
artificial satellite, solar particles, cosmic radiation telemetry, Van	problem solving, insight, fixation, the 'aha' reaction
Allen belts, radiation belts, space exploration, mapping of radiation	1963 Apr p 118–128 (4/6)
belts by Explorer satellites 1959 Mar p 39-47 [248]	ghetto, racial discrimination, unemployment, urban riots, public opinion,
cosmic radiation, solar particles, galactic magnetism galactic accelerator theory 1960 June p 64-71	social class, American Negro, 'inffraff theory' versus 'blocked- opportunity' theory 1968 Aug p 15-21 [638]
accelerator theory 1960 June p 64-71 magnetometer, natural resources, mining, mineral prospecting, aerial	G I, bill, for Korea veterans 1951 Sept p 48
prospecting 1961 June p 151–162	giant atoms, 'as big as bacteria' 1976 Feb p 548
ocean floor, magnetometer, magnetic reversals, patterned magnetic	giant aton, squid, cephalopods, nerve impulse 1951 Apr p 64-69
field variations in the ocean floor 1961 Oct p 146-156 artificial satellite, Lorentz force, magnetosphere, solar radiation, Van	squid, nerve impulse, sodium pump, nerve cells, 'voltage clamp' technique 1958 Dec p 83-90
Allen belts, radiation belts, aurora, physics of Van Allen belts	giant cells, Acetabularia, mermaid's wineglass, cell nucleus, cytoplasm,
1963 May p 84–96	algae, grant cells in study of nucleus-cytoplasm interaction
artificial satellite, solar wind, magnetosphere, aurora, magnetometer,	ly66 Nov p 118-124 [1057] giant molecules, mathematical model, computer modeling cytochrome
orbital motion 1905 Mar p 38-65 aurora borealis, solar radiation, ionosphere, magnetosphere, solar	helix myoglobin hemoglobin molecular modeling, DNA
wind physics of the aurora 1965 Dec. p. 54–62	1966 June p 42-52 [1043]
comet, magnetic reversals, tektites, meteorites, meteoritic impacts	giant star, Betelgeuse, photographic close-up 1975 Feb p 42
1967 July p 32–38	giberellin, agronomy, auxins, plant growth, oak, function of plant growth hormone 1957 Apr p 125-134 [11]
plasma, solar radiation, ionosphere, Earth magnetic field, barium clouds, magnetosphere, electric field, artificial plasma clouds from	auxing plant growth cytokining dormin plant hormones
rool etc 1908 NOV p ou-92	1968 July p 75-81 [1111]
geometry, mathematics, topology, quinary system, decimal system,	plant growth hormone 1956 Oct p 72 gift giving, human behavior, psychological implications
tessellation, knots, primitive mathematics 1948 Dec p 44-49 intuition, foundations of mathematics, Hans Hahn on geometry and	1967 Oct p 62
1934 Apr p 64-91	Gigantopithecus, Australopithecus, human evolution, hominid, pongids
the Fuchdean geometry, curved line, reach and	1970 Jan p 76-85 gill, lung, oxygen transfer, carbon dioxide, gas exchange, water breathing
	by mammals, breathing animal experiments in water-breathing
mathematics, topology, non-Euclidian geometry, conic sections, history	1968 Aug p 66–74 [1123]
and current uses of geothern's	counter current exchange, rete mirabile, heat conservation, physiology, swim bladder, kidney, physics of a physiological invention
distribution and role in geological processes 1951 Nov p 45-52	1957 Apr p ⁹⁶
geomagnetism, electromagnetism, magnetonydrouynamies, e	ginkgo, city trees, pollution effects, tree cloning, ailanthus, London plane,
currents, Earth core, origin of terrestial magnetic 1958 May p 44-48	Norway maple 1976 Nov p 110-118 giraffe, animal husbandry, antelope, elephant, buffalo, rhinoceros,
geosyncline, geology, tectonic processes, mathematical model, scaling,	hippopotamus wildlife husbandry in Africa 1960 Nov p 123-134
geosyncline, geology, tectonic processes, maintaintenance 1961 Feb p 96–106 block fault, experimental geology 1961 Feb p 96–106	graffe respiration, comparative physiology, blood pressure, extravascular
continental evolution, mountain formation, plate tectors, 30-38 [899]	pressure, breathing 1974 Nov p 96–105 [1307] Girard grid, spectroscopy, Fraunhofer lines, prism, light, Fourier analysis.
sedimentary rock, Apartmention, energy resources, fission fuels,	diffraction grating, interferometry 1968 Sept p 72–82
power, fossil fuel, fusion fuels, solar energy, tidal energy 1971 Sept p 60-70 [663]	
- 17/1 Jup. P	

glaciation, orbital motion, Earth, eccentricities of motion, Milankovitch	gliding birds, bird flight, soaring, vultures, thermal cells, lift phenomena 1973 Dec p 102-109
forecast, correlating glacial and sidereal time tables 1948 Oct p 40-45	globular cluster stars, Milky Way, nebulae, spiral arms, dust clouds, galactic center, seeing a galaxy from the inside 1950 Feb p 30-39
hot springs, adaptation, high temperature, low temperature 1949 Feb p 46–49	Clouds of Magellan, galactic center, nebulae, Southern sky, Eta Carina,
pollen chronology, micropaleontology, living records of the ice age 1949 May p 48-51 [834]	astronomical riches of the southern sky 1952 July p 46-57 dwarf stars, H-R diagram, spectroscopy, stellar evolution, subdwarf
paleontology, natural history, Agassiz, Louis Agassiz, fostering of science in America 1949 July p 48-51	stars bluer because poorer in heavy elements 1961 June p 111-120 stellar evolution, Red Giant stars, stellar modeling, main-sequence
continental uplift, a theory of glaciation 1952 Aug p 57–59	stars, H-R diagram, stellar anatomy, age of cluster stars 1970 July p 26-39
Earth, Antarctic glacier, climate, sea level, hydrologic cycle 1955 Sept p 84-92 [809]	black hole, binary stars, galactic energetics, neutron stars, stellar
oxygen isotopes, temperature measurement, foraminifera, abyssal sediments, paleontology, climatic change, measurement of ancient	evolution, X-ray stars, astronomy satellites, 'bursters' 1977 Oct p 42-55 [385]
temperatures 1958 Feb p 54-63 climatic change, solar radiation, solar evolution and terrestrial climate	globulin, kınıns, peptides, kallıdın, venom, inflammation, bradykının, local hormones, production and distribution
1958 June p 85–92 [835]	Glomar Challenger, deep-sea drilling expeditions 1962 Aug p 111–118 [132] 1970 Aug p 45
ocean floor, sea level, continental uplift, sea level variations 1960 May p 70-79	findings 1972 June p 51
plant migration, oceanography, New World archeology, animal migration, Bering land bridge, continental shelf, Wisconsin	Glomar Challenger findings, evaporite minerals, fossil record, Miocene desiccation, salt, Mediterranean as desert 1972 Dec p 26-36 [904]
glaciation, animal-plant migration, Asia-North America 1962 Jan p 112–123	glomerulus, kıdney, counter-current exchange, urine, nephron, osmosis, anatomy and physiology of the kıdney 1953 Jan p 40-48 [37]
Antarctica, Antarctic continental glacier, ice, stratigraphy, volume of ice in glaciers ecological implications 1962 Sept p 132–146 [861]	glory, light diffraction, optics, rainbow 1974 July p 60–73 Glossopteris, Antarctica, fossil fauna, fossil flora, geology, paleontology,
Antarctica, geology, seismology, seismic mapping, Antarctic land mass, part continent-part archipelago 1962 Sept p 151–166	coal, continental drift evidence 1962 Sept p 168–184 [863] continental drift, glaciation, Gondwanaland, Laurasia,
fossil record, species extinction, natural selection, 'catastrophism',	paleomagnetism, sea-floor spreading, supercontinents, plate tectonics, continental drift confirmed 1968 Apr p 52-64 [874]
evolution, Infra-Cambrian Ice Age, fossil record, continental drift,	glow worm, bioluminescence, firefly, abyssal fish, luciferase, 'cold light'
paleomagnetism 1964 Aug p 28–36 continental drift, Gondwanaland, Laurasia, paleomagnetism,	1948 May p 46-49 glucocorticoids, ACTH, adrenal hormones, pituitary hormones, stress
Glossopteris, sea-floor spreading, supercontinents, plate tectonics, continental drift confirmed 1968 Apr p 52-64 [874]	1971 Jan p 26-31 [532] glucogenesis, ATP, chloroplast, mitochondrion, photosynthesis, cell
continental shelf, ocean, shelf sediments, marine geology 1969 Sept p 106-122 [882]	metabolism, citric-acid cycle, glycolysis, oxidative phosphorylation, cytology, cellular transformation of energy 1961 Sept p 62–73 [91]
Ice Age hunters, mammoths, Mousterian assemblages, Ukraine 1974 June p 96–105 [685]	ACTH, ATP, glycolysis, hormone, epinephrine, cell metabolism, cyclic AMP, activation of cyclic AMP by hormones
glaciation since Ice Age, climate, mountain glaciers, sea-ice fluctuations, glacier fluctuations 1970 June p 100-110	1972 Aug p 97–105 [1256] glue, see adhesive
glacier fluctuations, climate, glaciation since Ice Age, mountain glaciers, sea-ice fluctuations 1970 June p 100-110	glycocalyx, bacterial-cell surface, bacterial infection, infective specificity, how bacteria stick 1978 Jan p 86-95 [1379]
glass, synthetic fiber, rayon, nylon, synthetic macromolecules, cellulose, man-made textile fibers 1951 July p 37-45	glycolysis, cytology, energy transformation, ATP, mitochondrion, citric- acid cycle, oxidative phosphorylation, membrane, energy
Egyptian glass, glassmakers, Roman glass, faience, chemical and	transformation in the cell 1960 May p 102–114 ATP, chloroplast, mutochondrion, photosynthesis, cell metabolism,
metals, materials technology, ceramics, polymers, chemical band,	glucogenesis, citric-acid cycle, oxidative phosphorylation, cytology,
composite materials, atom, elements, introduction to single-topic issue on materials 1967 Sept p 68-79	cellular transformation of energy 1961 Sept p 62-73 [91] ATP, mitochondrion, cell membrane, enzymes, oxidative
amorphous solid, materials technology, supercooling, crystal structure, geometry of glass, two-phase glasses 1967 Sept p 126-136	phosphorylation, cell metabolism, mitochondrial membrane 1968 Feb p 32-39 [1101]
architecture, sunlight, lighting, solar radiation, building construction 1968 Sept p 190-202	ATP, muscle, aerobic metabolism, oxygen debt, lactic acid formation, aerobic metabolism, anaerobic metabolism, energy mechanisms in
amorphous semiconductors, switching, memory, threshold switch, memory switch 1969 Nov p 30-41	muscle 1972 Mar p 84-91 [1244] ACTH, ATP, glucogenesis, hormone, epinephrine, cell metabolism,
lens aberrations, optics, photographic lenses 1976 Aug p 72–83 glass age, fission-track dating, geochronology, meteorite age, mineral age,	cyclic AMP, activation of cyclic AMP by hormones 1972 Aug p 97-105 [1256]
pottery age, radioactive decay, uranium fission 1976 Dec p 114-122	glycopeptides, bacterial cell, cell wall, bacterial metabolism, penicillin, polysacchandes, membrane 1969 May p 92-98
glass electrode, pH, galvanic cell, hydrogen ions, acidity 1951 Jan p 40-43	glycoprotein synthesis, Golgi apparatus, goblet cells, mucus, carbohydrate, saccules 1969 Feb p 100-107 [1134]
glass fiber, materials technology, optical glass, ceramics, amorphous solid, properties of glass as 'undercooled liquid' 1961 Jan p 92-104	glycoproteins, blood plasma, collagen, cell-surface antigens, interferon,
materials technology, synthetic fiber, composite materials, plastics, properties of 'two-phase' materials 1962 Jan p 124-134	Gnathostomulida, new animal phylum established 1969 Apr p 52
glass fiber cables, digital transmission, diode laser, fiber optics, light- emitting diode, light-wave communication, pulse-code modulation,	Godel's proof, mathematics, logic, paradox, philosophy of science,
lightwate telephone 1977 Aug p 40-48 [373] glassmakers, Egyptian glass, glass, Roman glass, faience, chemical and	antinomy, paradox, mathematical logic, logic, barber paradox
physical analysis of ancient glass 1963 Nov p 120-130 glaucoma, vision, indectomy, blindness, human eye	undecidable questions Grelling's paradox, Epimenides' paradox, Zeno's paradox, paradox and foundations of logic
1959 Aug p 110-117 ghal cells, learning theory, memory, neurones, RNA, brain, molecular	
	metalogic, mathematical logic, undecidable questions
meory of memory 1961 Dec. p. 62-70 11341	Gobi Desert, mountain formation, continental destructions
theory of memory 1961 Dec p 62-70 [134] glider, meteorology, wind, cloud, fee waves, soaring, esthetic exploitation of fee waves 1961 Mar p 124-134	metalogic, mathematical logic, undecidable questions

```
goblet cells, glycoprotein synthesis. Golgi apparatus, mucus,
                                                                                       truth logic, philosophy, sentence, metalogic, mathematical proof,
       carbohydrate, viccules
                                                  1969 Feb p 100~107 [1134]
                                                                                          antimony of the liar, proof and truth
  golter, thyroid, metabolism control, thyroxin, pituitary gland, role of
                                                                                                                                           1969 June p 63-77
                                                                                       language organization, linguistics, speech errors, spoonerisms, syntactic
       thyroid in governing metabolism
                                                        1960 Mar p 119-129
                                                                                          rules
                                                                                                                                   1973 Dec p 110-117 [556]
    hypothyroidism, iodine deficiency, epidemiology, thyroid, iodized salt
                                                                                     grammatical relations, visual perception, bilingualism, dyslexia, eye
                                                   1971 June p 92-101 [1223]
                                                                                          movement, language, reading, perception of words
  gold, metallurgy, New World archeology, New World archeology, Old
       Copper culture, Peru, copper, lost-way casting, metalwork, pre-
                                                                                                                                      1972 July p 84-91 [545]
                                                                                    grana, photosynthesis, chloroplast, Hill reaction
                                                                                                                                          1953 Nov p 80-84
       Columbian, New World, 4,000 B C
                                                           1966 Apr. p 72-81
                                                                                    granite, sandstone, sand dune, weathering, turbidity currents,
  goldfish, brain metabolism, memory, protein synthesis, learning,
                                                                                         stratigraphy, sand origin and history from shape of grain
       conditioned behavior
                                                 1967 June p 115-122 [1077]
  Golgi apparatus, glycoprotein synthesis, goblet cells, mucus,
                                                                                                                                         1960 Apr p 94-110
                                                                                    granitization, Earth crust, mountain formation, isostasis, ocean basins,
       carbohydrate, saccules
                                                 1969 Feb p 100-107 [1134]
                                                                                         ocean floor, tectonic processes, comprehensive review of
  gonadal hormones, adrenal hormones, brain circuitry, hormone-sensitive
                                                                                         understanding (before acceptance of continental dnft)
       neurons, sex hormones, sexual behavior, sex differences, steroid
      hormones, action of hormones on nerve tissue
                                                                                                                                          1950 May p 32-41
                                                                                      Carth mantle
                                                                                                                                          1955 Apr p 77-82
                                                    1976 July p 48-58 [1341]
                                                                                    grape fermentation, wine, yeast, viticulture, climate, enzymes, chemical
 gonadotrophic hormones, pituitary gland, ACTH, metabolic hormones,
                                                                                        explanation of a good wine, role of climate
      growth hormone, endocrine system, the master gland
                                                                                                                                    1964 Aug p 46-56 [190]
                                                           1950 Oct p 18-22
                                                                                   graph theory, network analysis, nodes and branches, pipelines,
 Gondwanaland, continental drift, glaciation, Laurasia, paleomagnetism,
                                                                                                                                        1970 July p 94-103
                                                                                        powergrids, reliability analysis
      Glossopteris, sea-floor spreading, supercontinents, plate tectonics,
                                                                                   graphite-crystal structure, crystal growth, diamond-crystal structure,
      continental drift confirmed
                                                    1968 Apr p 52-64 [874]
                                                                                        synthetic diamonds, synthesis at low pressure 1975 Nov p 102-109
    continental drift, speciation, reptile evolution, radiation, genetic
                                                                                   grasses, agricultural economics, forage crops, agronomy, hay, legumes,
      convergence, Laurasia, mammalian evolution, supercontinent
                                                                                       In estock feed, ruminants, silage, Rhizobium bacteria
      breakup and animal diversification
                                                   1969 Mar p 54-64 [877]
                                                                                                                                         1976 Feb p 60-75
   mountain formation, continental drift, Himalaya formation, Indian-
                                                                                   grasshopper, nerve conduction, muscle contraction, biomechanics of leap
      Ocean formation, magnetization patterns, plate tectonics sea-floor
                                                                                                                                         1958 Jan p 30-35
                                                    1973 May p 62-72 [908]
                                                                                  grassland, ecology, fire, forestry, forest fire, role of fire in climax ecology
   hypothesis confirmed
                                                             1967 Feb p 58
                                                                                                                               1961 Apr p 150-160 [1099]
 gong language, African drum language, communication, drums, talking
                                                                                     animal migration, grazing animals, grazing ecosystem, savanna
      drums
                                                         1971 Dcc p 90-94
                                                                                       topography, Serengeti National Park, Tanzania
                                                            1976 June p 50
                                                                                                                                  1971 July p 86-93 [1228]
 gonorrhea, resurgent
 Gordion, archeological excavation, Phrygian civilization, Alexander, 700
                                                                                  gravimetry, bathymetry, sonar, ocean floor, continental shelf,
      BC, preclassical Greek link with East
                                                       1959 July p 100-109
                                                                                       sedimentary cores, Lamont Geophyscial Observatory
                                                                                                                                       1956 Dec p 83-94
 gorilla autopsy, poor zoo diet
                                                             1955 Dec p 56
 Gossamer Condor, aeronautics, man-powered flight
                                                                                  gravitation, matter, wave-particle duality, energy levels, electromagnetic
                                                             1977 Oct p 74
 Gothic arch, architectural engineering, roof, vault, Romanesque barrel
                                                                                      force, nuclear forces, field theory, fundamental research, quantum
      vault, Byzantine dome, building construction, vaulting technics
                                                                                      jumps, corpuscular streams, what is matter?
                                                                                                                                 1953 Sept p 52~57 [241]
                                                      1961 Nov p 144-154
                                                                                    galactic clusters, probability, universe, cosmology, Monte Carlo
Gothic cathedrals, optical model, architectural engineering. Bourges
                                                        1972 Nov p 90-99
                                                                                      method, distribution of galaxies as test of cosmologies
     cathedral, Chartres cathedral
                                                                                                                                    1956 Sept p 187-200
gout, arthritis, colchicine, metabolism, chemistry of gout
                                                                                   wave-particle duality, relativity theory, quantum mechanics, space time
                                                        1958 June p 73-81
                                                                                      continuum, uncertainty principle, PAM Dirac view of physics
                                                            1958 Aug p 50
   chemistry of gout
                                                                                                                                      1963 May p 45-53
povernment-business relations, economic development, Japan,
                                                                                                                                         1959 Apr p 68
     employment policy, investment, debt financing, Japan's economic
                                                                                   gravity waves and quanta
                                                                                gravitation anomalies, geoid, Earth, Vening-Meinesz apparatus, Earth's
                                                        1970 Mar p 31-37
     growth
                                                                                                                                  1955 Sept p 164 [812]
government employment, scientists reject
                                                            1948 Oct p 24
                                                                                     gravity
                                                                                gravitation effects, stellar evolution, tidal effects, contact binaries, binary
government regulation, housing, land use, population density,
                                                                                                                                     1968 June p 34-40
     shantytowns, taxation, urban planning, cities, control of land use
                                                                                     stars, stellar fission
                                                                                gravitational acceleration, Galileo's experiments, time keeping music as
                                                    1965 Sept p 150-160
                                                                                                                                    1975 June p 98-104
                                                           1975 Oct p 54
                                                                                     time measure
graffiti, prevention
                                                                                gravitational collapse, solar system, Sun, cosmology, dust cloud
graft rejection, skin transplants, immune response, biochemistry of 'self'
                                                                                    hypothesis, gravity, light pressure, thermonuclear reaction, genesis of
                                                       1957 Apr p 62-66
                                                                                                                                     1948 May p 35-45
  antigens, cell-surface antigens, histocompatability, immune response,
                                                                                    solar system
                                                                                  dust cloud hypothesis, binary stars, photophoresis, element abundance,
                                               1977 Oct p 96-107 [1369]
     H-2 antigens, HLA antigens
                                                                                                                               1952 Oct p 53-61 [833]
                                                           1965 Dec p 40
                                                                                    angular momentum, origin of the Earth
   thymectomy
grafting techniques, resource management, gene manipulation, forestry,
                                                                                  galactic evolution, barred galaxy, spiral galaxies, elliptical galaxies
                                                                                                                                  1956 Sept p 100-108
     Southern pine, tree farming, seed-orchard concept
                                                                                    evolution from taxonomy
                                                                                 dwarf stars, degenerate gas, white dwarfs, binary stars 'dying' stars
                                                     1971 Nov p 94-103
                                                                                                                                    1959 Jan p 46-53
grain, proteins, plant protein plant hybrids, agronomy, Triticale
                                                                                 radio galaxies, nonthermal emission, supernovae, synchrotron
                                                      1974 Aug p 72-80
grain boundaries, alloys, materials technology, metals, crystal structure,
                                                                                   radiation, intensity of galactic radio emission
                                                                                                                              1962 Mar p 41-49 [278]
     lattice defects, dislocations, electron 'gas', nature of metals
                                                                                gravity, stellar evolution, space time continuum, thermal pressure, singularity, gravitational radius, black hole 1967 Nov p 88-98
                                                     1967 Sept p 90-100
                                                                                   singularity, gravitational radius, black hole
grain combine, mechanical harvesting, cotton picker, agricultural
                                                                                 pulsar, white dwarfs, neutron stars, angular momentum, 'lighthouse'
     technology, tomato harvester, hay cuber, cherry picker
                                                                                                                                   1968 Oct p 25-35
                                                      1967 Aug p 50-59
                                                                                   model proposed
                                                                                Crab Nebula, neutron stars, pulsar, radio source, stellar evolution,
grain structure, wood, cellulose, lignin, cell structure 1953 Jan p 64-67
                                                                                                                                   1971 Jan p 48-60
  materials technology, metalliding, superplasticity, microduplex
                                                                                   angular momentum
                                                                                neutron stars, pulsar, stellar evolution, solid stars, white dwarfs,
     structure, thermomechanical processing, metals that can be formed
                                                                                                                                   1971 Feb p 24-31
                                                                                  ultradense matter
                                                     1969 Mar p 28-35
                                                                                interstellar matter, supernovae, shock waves, stellar formation, stellar
  diffraction, gemstones, opal colors, periodic structures, silica-sphere
                                                                                  evolution, birth of massive stars
                                                                                                                         1978 Apr p 110-118 [3005]
                                                      1976 Apr p 84-95
                                                                             gravitational constant, science history, Ectvos experiment, general
grammar, pidgin, linguistics, Creole, gullah, colonialism, evolution and
                                                                                  relativity, Edwos experiment confirmed
                                                                                                                                 1961 Dec p 84-94
```

1959 Feb p 124-134

elaboration of colonial languages

decrease? 1974 Oct p 56	
	Great Plains, dust storms, dry-land farming, marginal farmlands, wind
avitational dynamics, galactic interactions, galaxy shapes, intergalactic	erosion, agricultural technology 1954 July p 25–29
tides, intergalactic bridges 1973 Dec p 38–48	Great Red Spot, Jupiter, Taylor column, planetary atmosphere, rotation
avitational energy, celestral energy, cosmological 'hangups', energy	period, hydrodynamic explanation vs raft hypothesis
cycle, power, radiation energy, entropy per unit energy, stellar	1968 Feb p 74–82
evolution, thermonuclear energy 1971 Sept p 50–59 [662]	liquid planets, Jovian moons, atmospheric circulation, Jupiter, solar
black hole, pulsar, quasars, rotational energy, radiation in universe	system 1975 Sept p 118–126
1973 Feb p 98–105	Jupiter, Jovian meteorology, planetary atmosphere, planets, solar
ravitational fields, black hole, quantum mechanics, relativity theory,	system 1976 Mar p 46-56
event horizon 1977 Jan p 34–40 [349]	Greek astronomy, astronomy, Ptolemaic system 1949 Apr p 44-47
ravitational instability, galactic evolution, gravity, red shift, primordial	Greek civilization, Linear B script, Homer, Minoan language, cryptology,
fireball, nonumformities, protogalaxies, origin of galaxies	an account of the decipherment 1954 May p 70-75
1970 June p 26–35	Mycenaean civilization, Linear B script, Classical archeology, Pylos,
Bok globules, interstellar clouds, interstellar dust, stellar formation,	King Nestor's palace, 1200 B C 1958 May p 110–121
local galaxy 1977 June p 66–81 [366]	Classical archeology, Brauron, 500 B C temple 1963 June p 110-120
ravitational interaction, antimatter, crystal structure, gamma radiation,	Nabataeans, Near East archeology, Petra, Hellenization of Arabs
positron probes, solid state physics, scintigraph 1975 July p 34-42	1963 Oct p 94–102
ravitational-radiation detector, galactic radiation, gravitational waves,	Cumae, Classical archeology, Italy, 8th c B C Greek colony first in
relativity theory 1971 May p 22–29	Italy 1963 Dec p 108–121
pavitational radius, gravity, stellar evolution, space-time continuum,	tunnel of Eupalinus, Samos, Classical archeology, water supply, feat of
gravitational collapse, thermal pressure, singularity, black hole	Classical engineering 1964 June p 104–112
1967 Nov p 88–98	Macedonia, Hellenic art, Pella, mosaic, capital of Macedonia
gravitational waves, galactic radiation, gravitational-radiation detector,	1966 Dec p 98–105
relativity theory 1971 May p 22–29	sports, Olympic games, Iliad account 1968 Aug p 78–85
black hole, neutron stars, pulsar, relativity theory, Red Giant stars,	temple of Apollo, underwater archeology 1974 Oct p 110-118
rotational energy, white dwarfs 1972 May p 38-46	Greek colony, Bronze Age, burnal site, Classical archeology, Bahrain,
reported, galactic center 1970 Mar p 58	Sumerian-Indian culture link 1960 Oct p 62–71
detection efforts fail 1973 Feb. p 48	Greek computer, Antikythera, planetary motion, ancient instruments,
Weber's events remain unconfirmed 1975 Nov p 60	science history, Classical archeology, computer technology, 2,000-
gravity, solar system, Sun, cosmology, dust cloud hypothesis, light	year-old computer 1959 June p 60–67
pressure, gravitational collapse, thermonuclear reaction, genesis of	Greek prehistory, Mycenaean civilization, Linear B script, origins of
solar system 1948 May p 35–45	writing 1972 Oct p 36–44 [681]
Galileo, moons of Jupiter, inertia, Galileo, biography and appraisal	Stone Age civilization, Neolithic archeology, Franchthi Cave
1949 Aug. p 40–47	1976 June p 76–87
unified field theory, electromagnetism, nuclear forces, 'On the	Greek science, atomic theory, Renaissance science, science history,
Generalized Theory of Gravitation', a personal account by Albert	Boscovich, Lucretius, forces between atoms 1970 May p 116–122
Einstein 1950 Apr p 13–17	Green Bank observatory, radio observatory, tornadoes, U.S. National Radio Observatory 1956 Oct. p. 56–64
inertia, Galilean relativity, Einstein, frames of reference, philosophy of	Radio Observatory 1956 Oct p 56-64 green flash, sunset, sunrise, light scattering, green flash explained
science, relativity, identity of mertia and gravity 1957 Feb p 99–109	1960 Jan p 112–122
•	
OCEAN HOOF MID-OCEAN TIDES OCEANOGRAPHY ALTICAN THIS DISCOVERY OF	"green revolution", economic development, hunger, population, food and
ocean floor, mid-ocean ridge, oceanography, African rifts, discovery of submarine rifted ridge 1960 Oct. p. 98–110	'green revolution', economic development, hunger, population, food and
submarine rifted ridge 1960 Oct p 98-110	agriculture, introduction to single-topic issue on food and agriculture
	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30-39
submarine infted ridge 1960 Oct p 98-110 time-space continuum, Einstein, electromagnetism	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30-39 agronomy, food and agriculture, maize, potatoes, Mexican agriculture
submarine rifted ridge 1960 Oct p 98-110 time-space continuum, Einstein, electromagnetism 1961 Mar p 94-106	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30-39 agronomy, food and agriculture, maize, potatoes, Mexican agriculture 1976 Sept p 128-150 India, food and agriculture, technology transfer, monsoons, irrigation,
submarine rifted ridge 1960 Oct p 98-110 time-space continuum, Einstein, electromagnetism 1961 Mar p 94-106 stellar evolution, space-time continuum, gravitational collapse, thermal pressure, singularity, gravitational radius, black hole 1967 Nov p 88-98	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30-39 agronomy, food and agriculture, maize, potatoes, Mexican agriculture
submarine rifted ridge 1960 Oct p 98-110 time-space continuum, Einstein, electromagnetism 1961 Mar p 94-106 stellar evolution, space-time continuum, gravitational collapse, thermal pressure, singularity, gravitational radius, black hole 1967 Nov p 88-98 galactic evolution, red shift, gravitational instability, primordial	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30-39 agronomy, food and agriculture, maize, potatoes, Mexican agriculture 1976 Sept p 128-150 India, food and agriculture, technology transfer, monsoons, irrigation, fertilizers, rice agronomy, wheat, hybrid crop plants 1976 Sept p 154-163
submarine rifted ridge 1960 Oct p 98–110 time-space continuum, Einstein, electromagnetism 1961 Mar p 94–106 stellar evolution, space-time continuum, gravitational collapse, thermal pressure, singularity, gravitational radius, black hole 1967 Nov p 88–98 galactic evolution, red shift, gravitational instability, primordial fireball, nonuniformities, protogalaxies, origin of galaxies	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30-39 agronomy, food and agriculture, maize, potatoes, Mexican agriculture 1976 Sept p 128-150 India, food and agriculture, technology transfer, monsoons, irrigation, fertilizers, rice agronomy, wheat, hybrid crop plants 1976 Sept p 154-163 developing countries, technology transfer, food and agriculture,
submarine rifted ridge 1960 Oct p 98-110 time-space continuum, Einstein, electromagnetism 1961 Mar p 94-106 stellar evolution, space-time continuum, gravitational collapse, thermal pressure, singularity, gravitational radius, black hole 1967 Nov p 88-98 galactic evolution, red shift, gravitational instability, primordial fireball, nonumformities, protogalaxies, origin of galaxies 1970 June p 26-35	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30-39 agronomy, food and agriculture, maize, potatoes, Mexican agriculture 1976 Sept p 128-150 India, food and agriculture, technology transfer, monsoons, irrigation, fertilizers, rice agronomy, wheat, hybrid crop plants 1976 Sept p 154-163 developing countries, technology transfer, food and agriculture, economic development 1976 Sept p 196-205
submarine rifted ridge 1960 Oct p 98–110 time-space continuum, Einstein, electromagnetism 1961 Mar p 94–106 stellar evolution, space-time continuum, gravitational collapse, thermal pressure, singularity, gravitational radius, black hole 1967 Nov p 88–98 galactic evolution, red shift, gravitational instability, primordial fireball, nonumformities, protogalaxies, origin of galaxies 1970 June p 26–35 free fall, Galileo's experiments, terminal velocity, acceleration of	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30-39 agronomy, food and agriculture, maize, potatoes, Mexican agriculture 1976 Sept p 128-150 India, food and agriculture, technology transfer, monsoons, irrigation, fertilizers, rice agronomy, wheat, hybrid crop plants 1976 Sept p 154-163 developing countries, technology transfer, food and agriculture, economic development 1976 Sept p 196-205 greenhouse, climate, plant growth agronomy, photoperiodicity, day-
submarine rifted ridge 1960 Oct p 98–110 time-space continuum, Einstein, electromagnetism 1961 Mar p 94–106 stellar evolution, space-time continuum, gravitational collapse, thermal pressure, singularity, gravitational radius, black hole 1967 Nov p 88–98 galactic evolution, red shift, gravitational instability, primordial fireball, nonumformities, protogalaxies, origin of galaxies 1970 June p 26–35 free fall, Galileo's experiments, terminal velocity, acceleration of gravity 1975 Mar p 102–111	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30-39 agronomy, food and agriculture, maize, potatoes, Mexican agriculture 1976 Sept p 128-150 India, food and agriculture, technology transfer, monsoons, irrigation, fertilizers, rice agronomy, wheat, hybrid crop plants 1976 Sept p 154-163 developing countries, technology transfer, food and agriculture, economic development 1976 Sept p 196-205 greenhouse, climate, plant growth agronomy, photoperiodicity, day- night temperature, 'phytotron', environment simulator
submarine rifted ridge 1960 Oct p 98–110 time-space continuum, Einstein, electromagnetism 1961 Mar p 94–106 stellar evolution, space-time continuum, gravitational collapse, thermal pressure, singularity, gravitational radius, black hole 1967 Nov p 88–98 galactic evolution, red shift, gravitational instability, primordial fireball, nonumformities, protogalaxies, origin of galaxies 1970 June p 26–35 free fall, Galileo's experiments, terminal velocity, acceleration of gravity 1975 Mar p 102–111 electromagnetic force, 'weak' force, 'strong' force, supergravity,	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30-39 agronomy, food and agriculture, maize, potatoes, Mexican agriculture 1976 Sept p 128-150 India, food and agriculture, technology transfer, monsoons, irrigation, fertilizers, rice agronomy, wheat, hybrid crop plants 1976 Sept p 154-163 developing countries, technology transfer, food and agriculture, economic development 1976 Sept p 196-205 greenhouse, climate, plant growth agronomy, photoperiodicity, daynight temperature, 'phytotron', environment simulator 1957 June p 82-94
submarine rifted ridge time-space continuum, Einstein, electromagnetism 1961 Mar p 94-106 stellar evolution, space-time continuum, gravitational collapse, thermal pressure, singularity, gravitational radius, black hole 1967 Nov p 88-98 galactic evolution, red shift, gravitational instability, primordial fireball, nonuniformities, protogalaxies, origin of galaxies 1970 June p 26-35 free fall, Galileo's experiments, terminal velocity, acceleration of gravity 1975 Mar p 102-111 electromagnetic force, 'weak' force, 'strong' force, supergravity, symmetry, quest for unified theory of basic forces	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30-39 agronomy, food and agriculture, maize, potatoes, Mexican agriculture 1976 Sept p 128-150 India, food and agriculture, technology transfer, monsoons, irrigation, fertilizers, rice agronomy, wheat, hybrid crop plants 1976 Sept p 154-163 developing countries, technology transfer, food and agriculture, economic development 1976 Sept p 196-205 greenhouse, climate, plant growth agronomy, photoperiodicity, day- night temperature, 'phytotron', environment simulator 1957 June p 82-94 'greenhouse effect', carbon dioxide 'window', atmosphere, climate.
submarine rifted ridge 1960 Oct p 98–110 time-space continuum, Einstein, electromagnetism 1961 Mar p 94–106 stellar evolution, space-time continuum, gravitational collapse, thermal pressure, singularity, gravitational radius, black hole 1967 Nov p 88–98 galactic evolution, red shift, gravitational instability, primordial fireball, nonuniformities, protogalaxies, origin of galaxies 1970 June p 26–35 free fall, Galileo's experiments, terminal velocity, acceleration of gravity 1975 Mar p 102–111 electromagnetic force, 'weak' force, 'strong' force, supergravity, symmetry, quest for unified theory of basic forces 1978 Feb p 126–143 [397]	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30-39 agronomy, food and agriculture, maize, potatoes, Mexican agriculture 1976 Sept p 128-150 India, food and agriculture, technology transfer, monsoons, irrigation, fertilizers, rice agronomy, wheat, hybrid crop plants 1976 Sept p 154-163 developing countries, technology transfer, food and agriculture, economic development 1976 Sept p 196-205 greenhouse, climate, plant growth agronomy, photoperiodicity, daynight temperature, 'phytotron', environment simulator 1957 June p 82-94 'greenhouse effect', carbon dioxide 'window', atmosphere, climate, biomass, ocean sediments, humus, threat of 'greenhouse effect'
submarine rifted ridge time-space continuum, Einstein, electromagnetism 1961 Mar p 94-106 stellar evolution, space-time continuum, gravitational collapse, thermal pressure, singularity, gravitational radius, black hole 1967 Nov p 88-98 galactic evolution, red shift, gravitational instability, primordial fireball, nonuniformities, protogalaxies, origin of galaxies 1970 June p 26-35 free fall, Galileo's experiments, terminal velocity, acceleration of gravity 1975 Mar p 102-111 electromagnetic force, 'weak' force, 'strong' force, supergravity, symmetry, quest for unified theory of basic forces 1978 Feb p 126-143 [397] origin of radio energy in space 1963 Mar p 78	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30–39 agronomy, food and agriculture, maize, potatoes, Mexican agriculture 1976 Sept p 128–150 India, food and agriculture, technology transfer, monsoons, irrigation, fertilizers, rice agronomy, wheat, hybrid crop plants 1976 Sept p 154–163 developing countries, technology transfer, food and agriculture, economic development 1976 Sept p 196–205 greenhouse, climate, plant grow th agronomy, photoperiodicity, day- night temperature, 'phytotron', environment simulator 1957 June p 82–94 'greenhouse effect', carbon dioxide 'window', atmosphere, climate, biomass, ocean sediments, humus, threat of 'greenhouse effect'
submarine rifted ridge time-space continuum, Einstein, electromagnetism 1961 Mar p 94-106 stellar evolution, space-time continuum, gravitational collapse, thermal pressure, singularity, gravitational radius, black hole 1967 Nov p 88-98 galactic evolution, red shift, gravitational instability, primordial fireball, nonumformities, protogalaxies, origin of galaxies 1970 June p 26-35 free fall, Galileo's experiments, terminal velocity, acceleration of gravity 1975 Mar p 102-111 electromagnetic force, 'weak' force, 'strong' force, supergravity, symmetry, quest for unified theory of basic forces 1978 Feb p 126-143 [397] origin of radio energy in space 1963 Mar p 78 gravity constant, interplanetary radar-ranging, lunar occultation, lunar	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30-39 agronomy, food and agriculture, maize, potatoes, Mexican agriculture 1976 Sept p 128-150 India, food and agriculture, technology transfer, monsoons, irrigation, fertilizers, rice agronomy, wheat, hybrid crop plants 1976 Sept p 154-163 developing countries, technology transfer, food and agriculture, economic development 1976 Sept p 196-205 greenhouse, climate, plant grow th agronomy, photoperiodicity, day- night temperature, 'phytotron', environment simulator 1957 June p 82-94 'greenhouse effect', carbon dioxide 'window', atmosphere, climate, biomass, ocean sediments, humus, threat of 'greenhouse effect' 1978 Jan p 34-43 [1376] Greenland, Arctic, Stone Age hunters Alaska, Siberia, Dorset culture,
submarine rifted ridge time-space continuum, Einstein, electromagnetism 1961 Mar p 94-106 stellar evolution, space-time continuum, gravitational collapse, thermal pressure, singularity, gravitational radius, black hole 1967 Nov p 88-98 galactic evolution, red shift, gravitational instability, primordial fireball, nonumformities, protogalaxies, origin of galaxies 1970 June p 26-35 free fall, Galileo's experiments, terminal velocity, acceleration of gravity 1975 Mar p 102-111 electromagnetic force, 'weak' force, 'strong' force, supergravity, symmetry, quest for unified theory of basic forces 1978 Feb p 126-143 [397] origin of radio energy in space 1963 Mar p 78 gravity constant, interplanetary radar-ranging, lunar occultation, lunar orbit, relativity theory, evidence for decrease of gravitational	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30-39 agronomy, food and agriculture, maize, potatoes, Mexican agriculture 1976 Sept p 128-150 India, food and agriculture, technology transfer, monsoons, irrigation, fertilizers, rice agronomy, wheat, hybrid crop plants 1976 Sept p 154-163 developing countries, technology transfer, food and agriculture, economic development 1976 Sept p 196-205 greenhouse, climate, plant grow th agronomy, photoperiodicity, daynight temperature, 'phytotron', environment simulator 1957 June p 82-94 'greenhouse effect', carbon dioxide 'window', atmosphere, climate, biomass, ocean sediments, humus, threat of 'greenhouse effect' 1978 Jan p 34-43 [1376] Greenland, Arctic, Stone Age hunters Alaska, Siberia, Dorset culture, circumpolar Stone Age culture 1954 June p 82-88
submarine rifted ridge time-space continuum, Einstein, electromagnetism 1961 Mar p 94-106 stellar evolution, space-time continuum, gravitational collapse, thermal pressure, singularity, gravitational radius, black hole 1967 Nov p 88-98 galactic evolution, red shift, gravitational instability, primordial fireball, nonuniformities, protogalaxies, origin of galaxies 1970 June p 26-35 free fall, Galileo's experiments, terminal velocity, acceleration of gravity 1975 Mar p 102-111 electromagnetic force, 'weak' force, 'strong' force, supergravity, symmetry, quest for unified theory of basic forces 1978 Feb p 126-143 [397] origin of radio energy in space 1963 Mar p 78 gravity constant, interplanetary radar-ranging, lunar occultation, lunar orbit, relativity theory, evidence for decrease of gravitational constant 1976 Feb p 44-52 gravity propulsion, mass transit, underground transport, pneumatic	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30–39 agronomy, food and agriculture, maize, potatoes, Mexican agriculture 1976 Sept p 128–150 India, food and agriculture, technology transfer, monsoons, irrigation, fertilizers, rice agronomy, wheat, hybrid crop plants 1976 Sept p 154–163 developing countries, technology transfer, food and agriculture, economic development 1976 Sept p 196–205 greenhouse, climate, plant grow th agronomy, photoperiodicity, day- night temperature, 'phytotron', environment simulator 1957 June p 82–94 'greenhouse effect', carbon dioxide 'window', atmosphere, climate, biomass, ocean sediments, humus, threat of 'greenhouse effect' 1978 Jan p 34–43 [1376] Greenland, Arctic, Stone Age hunters Alaska, Siberia, Dorset culture, circumpolar Stone Age culture 1954 June p 82–88 Greenland flora, Arctic flora, desert adaptation, cold adaptation,
submarine rifted ridge time-space continuum, Einstein, electromagnetism 1961 Mar p 94-106 stellar evolution, space-time continuum, gravitational collapse, thermal pressure, singularity, gravitational radius, black hole 1967 Nov p 88-98 galactic evolution, red shift, gravitational instability, primordial fireball, nonuniformities, protogalaxies, origin of galaxies 1970 June p 26-35 free fall, Galileo's experiments, terminal velocity, acceleration of gravity 1975 Mar p 102-111 electromagnetic force, 'weak' force, 'strong' force, supergravity, symmetry, quest for unified theory of basic forces 1978 Feb p 126-143 [397] origin of radio energy in space 1963 Mar p 78 gravity constant, interplanetary radar-ranging, lunar occultation, lunar orbit, relativity theory, evidence for decrease of gravitational constant 1976 Feb p 44-52 gravity propulsion, mass transit, underground transport, pneumatic propulsion, railway, transport by 'pedulum' train	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30-39 agronomy, food and agriculture, maize, potatoes, Mexican agriculture 1976 Sept p 128-150 India, food and agriculture, technology transfer, monsoons, irrigation, fertilizers, rice agronomy, wheat, hybrid crop plants 1976 Sept p 154-163 developing countries, technology transfer, food and agriculture, economic development 1976 Sept p 196-205 greenhouse, climate, plant growth agronomy, photoperiodicity, day- night temperature, 'phytotron', environment simulator 1957 June p 82-94 'greenhouse effect', carbon dioxide 'window', atmosphere, climate, biomass, ocean sediments, humus, threat of 'greenhouse effect' 1978 Jan p 34-43 [1376] Greenland, Arctic, Stone Age hunters Alaska, Siberia, Dorset culture, circumpolar Stone Age culture 1954 June p 82-88 Greenland flora, Arctic flora, desert adaptation, cold adaptation, paleobotany, adaptations to Arctic climate 1956 Feb p 88-98 Greenwich Observatory, poor seeing
submarine rifted ridge time-space continuum, Einstein, electromagnetism 1961 Mar p 94-106 stellar evolution, space-time continuum, gravitational collapse, thermal pressure, singularity, gravitational radius, black hole 1967 Nov p 88-98 galactic evolution, red shift, gravitational instability, primordial fireball, nonuniformities, protogalaxies, origin of galaxies 1970 June p 26-35 free fall, Galileo's experiments, terminal velocity, acceleration of gravity 1975 Mar p 102-111 electromagnetic force, 'weak' force, 'strong' force, supergravity, symmetry, quest for unified theory of basic forces 1978 Feb p 126-143 [397] origin of radio energy in space 1963 Mar p 78 gravity constant, interplanetary radar-ranging, lunar occultation, lunar orbit, relativity theory, evidence for decrease of gravitational constant 1976 Feb p 44-52 gravity propulsion, mass transit, underground transport, pneumatic propulsion, railway, transport by 'pedulum' train	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30–39 agronomy, food and agriculture, maize, potatoes, Mexican agriculture 1976 Sept p 128–150 India, food and agriculture, technology transfer, monsoons, irrigation, fertilizers, rice agronomy, wheat, hybrid crop plants 1976 Sept p 154–163 developing countries, technology transfer, food and agriculture, economic development 1976 Sept p 196–205 greenhouse, climate, plant growth agronomy, photoperiodicity, daynight temperature, 'phytotron', environment simulator 1957 June p 82–94 'greenhouse effect', carbon dioxide 'window', atmosphere, climate, biomass, ocean sediments, humus, threat of 'greenhouse effect' 1978 Jan p 34–43 [1376] Greenland, Arctic, Stone Age hunters Alaska, Siberia, Dorset culture, circumpolar Stone Age culture 1954 June p 82–88 Greenland flora, Arctic flora, desert adaptation, cold adaptation, paleobotany, adaptations to Arctic climate 1956 Feb p 88–98 Greenwich Observatory, poor seeing 1953 Oct p 52 Grelling's paradox, antinomy, paradox, mathematical logic logic harber
submarine rifted ridge time-space continuum, Einstein, electromagnetism 1961 Mar p 94–106 stellar evolution, space-time continuum, gravitational collapse, thermal pressure, singularity, gravitational radius, black hole 1967 Nov p 88–98 galactic evolution, red shift, gravitational instability, primordial fireball, nonuniformities, protogalaxies, origin of galaxies 1970 June p 26–35 free fall, Galileo's experiments, terminal velocity, acceleration of gravity electromagnetic force, 'weak' force, 'strong' force, supergravity, symmetry, quest for unified theory of basic forces 1978 Feb p 126–143 [397] origin of radio energy in space 1963 Mar p 78 gravity constant, interplanetary radar-ranging, lunar occultation, lunar orbit, relativity theory, evidence for decrease of gravitational constant 1976 Feb p 44–52 gravity propulsion, mass transit, underground transport, pneumatic propulsion, railway, transport by 'pedulum' train 1965 Aug p 30–40 gravity theory, supergravity 1977 July p 59	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30–39 agronomy, food and agriculture, maize, potatoes, Mexican agriculture 1976 Sept p 128–150 India, food and agriculture, technology transfer, monsoons, irrigation, fertilizers, rice agronomy, wheat, hybrid crop plants 1976 Sept p 154–163 developing countries, technology transfer, food and agriculture, economic development 1976 Sept p 196–205 greenhouse, climate, plant grow th agronomy, photoperiodicity, daynight temperature, 'phytotron', environment simulator 1957 June p 82–94 'greenhouse effect', carbon dioxide 'window', atmosphere, climate, biomass, ocean sediments, humus, threat of 'greenhouse effect' 1978 Jan p 34–43 [1376] Greenland, Arctic, Stone Age hunters Alaska, Siberia, Dorset culture, circumpolar Stone Age culture 1954 June p 82–88 Greenland flora, Arctic flora, desert adaptation, cold adaptation, paleobotany, adaptations to Arctic climate 1956 Feb p 88–98 Greenwich Observatory, poor seeing 1953 Oct p 52 Grelling's paradox, antinomy, paradox, mathematical logic, logic, barber paradox, undecidable questions, Godel's proof. Epimenides'
submarine rifted ridge time-space continuum, Einstein, electromagnetism 1961 Mar p 94-106 stellar evolution, space-time continuum, gravitational collapse, thermal pressure, singularity, gravitational radius, black hole 1967 Nov p 88-98 galactic evolution, red shift, gravitational instability, primordial fireball, nonuniformities, protogalaxies, origin of galaxies 1970 June p 26-35 free fall, Galileo's experiments, terminal velocity, acceleration of gravity 1975 Mar p 102-111 electromagnetic force, 'weak' force, 'strong' force, supergravity, symmetry, quest for unified theory of basic forces 1978 Feb p 126-143 [397] origin of radio energy in space 1963 Mar p 78 gravity constant, interplanetary radar-ranging, lunar occultation, lunar orbit, relativity theory, evidence for decrease of gravitational constant 1976 Feb p 44-52 gravity propulsion, mass transit, underground transport, pneumatic propulsion, railway, transport by 'pedulum' train 1965 Aug p 30-40 gravity theory, supergravity 1977 July p 59 gray whale, whale, animal migration, extinction 1955 Jan p 62-66	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30–39 agronomy, food and agriculture, maize, potatoes, Mexican agriculture 1976 Sept p 128–150 India, food and agriculture, technology transfer, monsoons, irrigation, fertilizers, rice agronomy, wheat, hybrid crop plants 1976 Sept p 154–163 developing countries, technology transfer, food and agriculture, economic development 1976 Sept p 196–205 greenhouse, climate, plant grow th agronomy, photoperiodicity, daynight temperature, 'phytotron', environment simulator 1957 June p 82–94 'greenhouse effect', carbon dioxide 'window', atmosphere, climate, biomass, ocean sediments, humus, threat of 'greenhouse effect' 1978 Jan p 34–43 [1376] Greenland, Arctic, Stone Age hunters Alaska, Siberia, Dorset culture, circumpolar Stone Age culture 1954 June p 82–88 Greenland flora, Arctic flora, desert adaptation, cold adaptation, paleobotany, adaptations to Arctic climate 1956 Feb p 88–98 Greenwich Observatory, poor seeing 1953 Oct p 52 Grelling's paradox, antinomy, paradox, mathematical logic, logic, barber paradox, undecidable questions, Godel's proof. Epimenides'
submarine rifted ridge time-space continuum, Einstein, electromagnetism 1961 Mar p 94-106 stellar evolution, space-time continuum, gravitational collapse, thermal pressure, singularity, gravitational radius, black hole 1967 Nov p 88-98 galactic evolution, red shift, gravitational instability, primordial fireball, nonumformities, protogalaxies, origin of galaxies 1970 June p 26-35 free fall, Galileo's experiments, terminal velocity, acceleration of gravity 1975 Mar p 102-111 electromagnetic force, 'weak' force, 'strong' force, supergravity, symmetry, quest for unified theory of basic forces 1978 Feb p 126-143 [397] origin of radio energy in space 1963 Mar p 78 gravity constant, interplanetary radar-ranging, lunar occultation, lunar orbit, relativity theory, evidence for decrease of gravitational constant 1976 Feb p 44-52 gravity propulsion, mass transit, underground transport, pneumatic propulsion, railway, transport by 'pedulum' train 1965 Aug p 30-40 gravity theory, supergravity 1977 July p 59 gray whale, whale, animal migration, extinction 1955 Jan p 62-66 grazing, land use, forestry, rangeland, agricultural resources, land	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30–39 agronomy, food and agriculture, maize, potatoes, Mexican agriculture 1976 Sept p 128–150 India, food and agriculture, technology transfer, monsoons, irrigation, fertilizers, rice agronomy, wheat, hybrid crop plants 1976 Sept p 154–163 developing countries, technology transfer, food and agriculture, economic development 1976 Sept p 196–205 greenhouse, climate, plant growth agronomy, photoperiodicity, daynight temperature, 'phytotron', environment simulator 1957 June p 82–94 'greenhouse effect', carbon dioxide 'window', atmosphere, climate, biomass, ocean sediments, humus, threat of 'greenhouse effect' 1978 Jan p 34–43 [1376] Greenland, Arctic, Stone Age hunters Alaska, Siberia, Dorset culture, circumpolar Stone Age culture 1954 June p 82–88 Greenland flora, Arctic flora, desert adaptation, cold adaptation, paleobotany, adaptations to Arctic climate 1956 Feb p 88–98 Greenwich Observatory, poor seeing 1953 Oct p 52 Grelling's paradox, antinomy, paradox, mathematical logic, logic, barber paradox, undecidable questions, Godel's proof, Epimenides' paradox, Zeno's paradox, paradox and foundations of logic
submarine rifted ridge time-space continuum, Einstein, electromagnetism 1961 Mar p 94-106 stellar evolution, space-time continuum, gravitational collapse, thermal pressure, singularity, gravitational radius, black hole 1967 Nov p 88-98 galactic evolution, red shift, gravitational instability, primordial fireball, nonuniformities, protogalaxies, origin of galaxies 1970 June p 26-35 free fall, Galileo's experiments, terminal velocity, acceleration of gravity 1975 Mar p 102-111 electromagnetic force, 'weak' force, 'strong' force, supergravity, symmetry, quest for unified theory of basic forces 1978 Feb p 126-143 [397] origin of radio energy in space 1963 Mar p 78 gravity constant, interplanetary radar-ranging, lunar occultation, lunar orbit, relativity theory, evidence for decrease of gravitational constant 1976 Feb p 44-52 gravity propulsion, mass transit, underground transport, pneumatic propulsion, railway, transport by 'pedulum' train 1965 Aug p 30-40 gravity theory, supergravity 1977 July p 59 gray whale, whale, animal migration, extinction 1955 Jan p 62-66 grazing, land use, forestry, rangeland, agricultural resources, land management, U S Western states 1970 Feb p 88-96 [1169]	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30–39 agronomy, food and agriculture, maize, potatoes, Mexican agriculture 1976 Sept p 128–150 India, food and agriculture, technology transfer, monsoons, irrigation, fertilizers, rice agronomy, wheat, hybrid crop plants 1976 Sept p 154–163 developing countries, technology transfer, food and agriculture, economic development 1976 Sept p 196–205 greenhouse, climate, plant growth agronomy, photoperiodicity, daynight temperature, 'phytotron', environment simulator 1957 June p 82–94 'greenhouse effect', carbon dioxide 'window', atmosphere, climate, biomass, ocean sediments, humus, threat of 'greenhouse effect' 1978 Jan p 34–43 [1376] Greenland, Arctic, Stone Age hunters Alaska, Siberia, Dorset culture, circumpolar Stone Age culture 1954 June p 82–88 Greenland flora, Arctic flora, desert adaptation, cold adaptation, paleobotany, adaptations to Arctic climate 1956 Feb p 88–98 Greenwich Observatory, poor seeing 1953 Oct p 52 Grelling's paradox, antinomy, paradox, mathematical logic, logic, barber paradox, undecidable questions, Godel's proof, Epimenides' paradox, Zeno's paradox, paradox and foundations of logic 1962 Apr p 84–96 grid-transformation, embryonic development, growth, computer
submarine rifted ridge time-space continuum, Einstein, electromagnetism 1961 Mar p 94-106 stellar evolution, space-time continuum, gravitational collapse, thermal pressure, singularity, gravitational radius, black hole 1967 Nov p 88-98 galactic evolution, red shift, gravitational instability, primordial fireball, nonuniformities, protogalaxies, origin of galaxies 1970 June p 26-35 free fall, Galileo's experiments, terminal velocity, acceleration of gravity electromagnetic force, 'weak' force, 'strong' force, supergravity, symmetry, quest for unified theory of basic forces 1978 Feb p 126-143 [397] origin of radio energy in space 1963 Mar p 78 gravity constant, interplanetary radar-ranging, lunar occultation, lunar orbit, relativity theory, evidence for decrease of gravitational constant 1976 Feb p 44-52 gravity propulsion, mass transit, underground transport, pneumatic propulsion, railway, transport by 'pedulum' train 1965 Aug p 30-40 gravity theory, supergravity 1977 July p 59 gray whale, whale, animal migration, extinction 1970 Feb p 88-96 [1169] grazing, animals, animal migration, grazsland, grazing ecosystem, sayanna	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30–39 agronomy, food and agriculture, maize, potatoes, Mexican agriculture 1976 Sept p 128–150 India, food and agriculture, technology transfer, monsoons, irrigation, fertilizers, rice agronomy, wheat, hybrid crop plants 1976 Sept p 154–163 developing countries, technology transfer, food and agriculture, economic development 1976 Sept p 196–205 greenhouse, climate, plant growth agronomy, photoperiodicity, daynight temperature, 'phytotron', environment simulator 1957 June p 82–94 'greenhouse effect', carbon dioxide 'window', atmosphere, climate, biomass, ocean sediments, humus, threat of 'greenhouse effect' 1978 Jan p 34–43 [1376] Greenland, Arctic, Stone Age hunters Alaska, Siberia, Dorset culture, circumpolar Stone Age culture 1954 June p 82–88 Greenland flora, Arctic flora, desert adaptation, cold adaptation, paleobotany, adaptations to Arctic climate 1956 Feb p 88–98 Greenwich Observatory, poor seeing 1953 Oct p 52 Grelling's paradox, antinomy, paradox, mathematical logic, logic, barber paradox, undecidable questions, Godel's proof, Epimenides' paradox, Zeno's paradox, paradox and foundations of logic 1962 Apr p 84–96 grid-transformation, embryonic development, growth, computer modeling, the shaping of tissues in embryos
submarine rifted ridge time-space continuum, Einstein, electromagnetism 1961 Mar p 94-106 stellar evolution, space-time continuum, gravitational collapse, thermal pressure, singularity, gravitational radius, black hole 1967 Nov p 88-98 galactic evolution, red shift, gravitational instability, primordial fireball, nonuniformities, protogalaxies, origin of galaxies 1970 June p 26-35 free fall, Galileo's experiments, terminal velocity, acceleration of gravity electromagnetic force, 'weak' force, 'strong' force, supergravity, symmetry, quest for unified theory of basic forces 1978 Feb p 126-143 [397] origin of radio energy in space 1963 Mar p 78 gravity constant, interplanetary radar-ranging, lunar occultation, lunar orbit, relativity theory, evidence for decrease of gravitational constant 21976 Feb p 44-52 gravity propulsion, mass transit, underground transport, pneumatic propulsion, railway, transport by 'pedulum' train 1965 Aug p 30-40 gravity theory, supergravity 1977 July p 59 gray whale, whale, animal migration, extinction 1976 Feb p 88-96 [1169] grazing animals, animal migration, grassland, grazing ecosystem, savanna topography, Serengeti National Park, Tanzania	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30–39 agronomy, food and agriculture, maize, potatoes, Mexican agriculture 1976 Sept p 128–150 India, food and agriculture, technology transfer, monsoons, irrigation, fertilizers, rice agronomy, wheat, hybrid crop plants 1976 Sept p 154–163 developing countries, technology transfer, food and agriculture, economic development 1976 Sept p 196–205 greenhouse, climate, plant growth agronomy, photoperiodicity, daynight temperature, 'phytotron', environment simulator 1957 June p 82–94 'greenhouse effect', carbon dioxide 'window', atmosphere, climate, biomass, ocean sediments, humus, threat of 'greenhouse effect' 1978 Jan p 34–43 [1376] Greenland, Arctic, Stone Age hunters Alaska, Siberia, Dorset culture, circumpolar Stone Age culture 1954 June p 82–88 Greenland flora, Arctic flora, desert adaptation, cold adaptation, paleobotany, adaptations to Arctic climate 1956 Feb p 88–98 Greenwich Observatory, poor seeing 1953 Oct p 52 Grelling's paradox, antinomy, paradox, mathematical logic, logic, barber paradox, undecidable questions, Godel's proof, Epimenides' paradox, Zeno's paradox, paradox and foundations of logic 1962 Apr p 84–96 grid-transformation, embryonic development, growth, computer modeling, the shaping of tissues in embryos
submarine rifted ridge time-space continuum, Einstein, electromagnetism 1961 Mar p 94-106 stellar evolution, space-time continuum, gravitational collapse, thermal pressure, singularity, gravitational radius, black hole 1967 Nov p 88-98 galactic evolution, red shift, gravitational instability, primordial fireball, nonumformities, protogalaxies, origin of galaxies 1970 June p 26-35 free fall, Galileo's experiments, terminal velocity, acceleration of gravity 1975 Mar p 102-111 electromagnetic force, 'weak' force, 'strong' force, supergravity, symmetry, quest for unified theory of basic forces 1978 Feb p 126-143 [397] origin of radio energy in space 1963 Mar p 78 gravity constant, interplanetary radar-ranging, lunar occultation, lunar orbit, relativity theory, evidence for decrease of gravitational constant 1976 Feb p 44-52 gravity propulsion, mass transit, underground transport, pneumatic propulsion, railway, transport by 'pedulum' train 1965 Aug p 30-40 gravity theory, supergravity 1977 July p 59 gray whale, whale, animal migration, extinction 1955 Jan p 62-66 grazing, land use, forestry, rangeland, agricultural resources, land management, U S Western states 1970 Feb p 88-96 [1169] grazing animals, animal migration, grassland, grazing ecosystem, savanna topography, Serengeti National Park, Tanzania	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30–39 agronomy, food and agriculture, maize, potatoes, Mexican agriculture 1976 Sept p 128–150 India, food and agriculture, technology transfer, monsoons, irrigation, fertilizers, rice agronomy, wheat, hybrid crop plants 1976 Sept p 154–163 developing countries, technology transfer, food and agriculture, economic development 1976 Sept p 196–205 greenhouse, climate, plant grow th agronomy, photoperiodicity, daynight temperature, 'phytotron', environment simulator 1957 June p 82–94 'greenhouse effect', carbon dioxide 'window', atmosphere, climate, biomass, ocean sediments, humus, threat of 'greenhouse effect' 1978 Jan p 34–43 [1376] Greenland, Arctic, Stone Age hunters Alaska, Siberia, Dorset culture, circumpolar Stone Age culture 1954 June p 82–88 Greenland flora, Arctic flora, desert adaptation, cold adaptation, paleobotany, adaptations to Arctic climate 1956 Feb p 88–98 Greenwich Observatory, poor seeing 1953 Oct p 52 Grelling's paradox, antinomy, paradox, mathematical logic, logic, barber paradox, undecidable questions, Godel's proof, Epimenides' paradox, Zeno's paradox, paradox and foundations of logic 1962 Apr p 84–96 grid-transformation, embry onic development, growth, computer modeling, the shaping of tissues in embry os 1978 June p 106–113 [1391] grief, adaptive value
submarine rifted ridge time-space continuum, Einstein, electromagnetism 1961 Mar p 94-106 stellar evolution, space-time continuum, gravitational collapse, thermal pressure, singularity, gravitational radius, black hole 1967 Nov p 88-98 galactic evolution, red shift, gravitational instability, primordial fireball, nonuniformities, protogalaxies, origin of galaxies 1970 June p 26-35 free fall, Galileo's experiments, terminal velocity, acceleration of gravity 1975 Mar p 102-111 electromagnetic force, 'weak' force, 'strong' force, supergravity, symmetry, quest for unified theory of basic forces 1978 Feb p 126-143 [397] origin of radio energy in space 1963 Mar p 78 gravity constant, interplanetary radar-ranging, lunar occultation, lunar orbit, relativity theory, evidence for decrease of gravitational constant 1976 Feb p 44-52 gravity propulsion, mass transit, underground transport, pneumatic propulsion, railway, transport by 'pedulum' train 1965 Aug p 30-40 gravity theory, supergravity gray whale, whale, animal migration, extinction 1955 Jan p 62-66 grazing, land use, forestry, rangeland, agricultural resources, land management, U S Western states 1970 Feb p 88-96 [1169] grazing animals, animal migration, grassland, grazing ecosystem, savanna topography, Serengeti National Park, Tanzannia 1971 July p 86-93 [1228]	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30–39 agronomy, food and agriculture, maize, potatoes, Mexican agriculture 1976 Sept p 128–150 India, food and agriculture, technology transfer, monsoons, irrigation, fertilizers, rice agronomy, wheat, hybrid crop plants 1976 Sept p 154–163 developing countries, technology transfer, food and agriculture, economic development 1976 Sept p 196–205 greenhouse, climate, plant growth agronomy, photoperiodicity, daynight temperature, 'phytotron', environment simulator 1957 June p 82–94 'greenhouse effect', carbon dioxide 'window', atmosphere, climate, biomass, ocean sediments, humus, threat of 'greenhouse effect' 1978 Jan p 34–43 [1376] Greenland, Arctic, Stone Age hunters Alaska, Siberia, Dorset culture, circumpolar Stone Age culture 1954 June p 82–88 Greenland flora, Arctic flora, desert adaptation, cold adaptation, paleobotany, adaptations to Arctic climate 1956 Feb p 88–98 Greenwich Observatory, poor seeing 1953 Oct p 52 Grelling's paradox, antinomy, paradox, mathematical logic, logic, barber paradox, undecidable questions, Godel's proof, Epimenides' paradox, Zeno's paradox, paradox and foundations of logic 1962 Apr p 84–96 grid-transformation, embryonic development, growth, computer modeling, the shaping of tissues in embryos 1978 June p 106–113 [1391] grief, adaptive value gross national product, education, U.S. population labor force age of the state of the process of the product of the process of
submarine rifted ridge time-space continuum, Einstein, electromagnetism 1961 Mar p 94-106 stellar evolution, space-time continuum, gravitational collapse, thermal pressure, singularity, gravitational radius, black hole 1967 Nov p 88-98 galactic evolution, red shift, gravitational instability, primordial fireball, nonumformities, protogalaxies, origin of galaxies 1970 June p 26-35 free fall, Galileo's experiments, terminal velocity, acceleration of gravity 1975 Mar p 102-111 electromagnetic force, 'weak' force, 'strong' force, supergravity, symmetry, quest for unified theory of basic forces 1978 Feb p 126-143 [397] origin of radio energy in space 1963 Mar p 78 gravity constant, interplanetary radar-ranging, lunar occultation, lunar orbit, relativity theory, evidence for decrease of gravitational constant 1976 Feb p 44-52 gravity propulsion, mass transit, underground transport, pneumatic propulsion, railway, transport by 'pedulum' train 1976 Feb p 44-52 gravity theory, supergravity gravity theory, supergravity 1977 July p 59 gray whale, whale, animal migration, extinction 1955 Jan p 62-66 grazing, land use, forestry, rangeland, agricultural resources, land management, U S Western states 1970 Feb p 88-96 [1169] grazing animals, animal migration, grassland, grazing ecosystem, savanna topography, Serengeti National Park, Tanzania 1971 July p 86-93 [1228] grazing ecosystem, animal migration, grassland, grazing animals savanna topography, Serengeti National Park, Tanzania	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30–39 agronomy, food and agriculture, maize, potatoes, Mexican agriculture 1976 Sept p 128–150 India, food and agriculture, technology transfer, monsoons, irrigation, fertilizers, rice agronomy, wheat, hybrid crop plants 1976 Sept p 154–163 developing countries, technology transfer, food and agriculture, economic development 1976 Sept p 196–205 greenhouse, climate, plant grow th agronomy, photoperiodicity, daynight temperature, 'phytotron', environment simulator 1957 June p 82–94 'greenhouse effect', carbon dioxide 'window', atmosphere, climate, biomass, ocean sediments, humus, threat of 'greenhouse effect' 1978 Jan p 34–43 [1376] Greenland, Arctic, Stone Age hunters Alaska, Siberia, Dorset culture, circumpolar Stone Age culture 1954 June p 82–88 Greenland flora, Arctic flora, desert adaptation, cold adaptation, paleobotany, adaptations to Arctic climate 1956 Feb p 88–98 Greenwich Observatory, poor seeing 1953 Oct p 52 Grelling's paradox, antinomy, paradox, mathematical logic, logic, barber paradox, undecidable questions, Godel's proof, Epimenides' paradox, Zeno's paradox, paradox and foundations of logic 1962 Apr p 84–96 grid-transformation, embryonic development, growth, computer modeling, the shaping of tissues in embryos 1978 June p 106–113 [1391] grief, adaptive value 1969 Apr p 52 grief, adaptive value 1969 Apr p 52 grief, adaptive value 1969 Apr p 52 grief, adaptive value 1969 Census
submarine rifted ridge time-space continuum, Einstein, electromagnetism 1961 Mar p 94-106 stellar evolution, space-time continuum, gravitational collapse, thermal pressure, singularity, gravitational radius, black hole 1967 Nov p 88-98 galactic evolution, red shift, gravitational instability, primordial fireball, nonumformities, protogalaxies, origin of galaxies 1970 June p 26-35 free fall, Galileo's experiments, terminal velocity, acceleration of gravity 1975 Mar p 102-111 electromagnetic force, 'weak' force, 'strong' force, supergravity, symmetry, quest for unified theory of basic forces 1978 Feb p 126-143 [397] origin of radio energy in space 1963 Mar p 78 gravity constant, interplanetary radar-ranging, lunar occultation, lunar orbit, relativity theory, evidence for decrease of gravitational constant 1976 Feb p 44-52 gravity propulsion, mass transit, underground transport, pneumatic propulsion, railway, transport by 'pedulum' train 1965 Aug p 30-40 gravity theory, supergravity gray whale, whale, animal migration, extinction 1955 Jan p 62-66 grazing, land use, forestry, rangeland, agricultural resources, land management, U S Western states 1970 Feb p 88-96 [1169] grazing animals, animal migration, grassland, grazing ecosystem, savanna topography, Serengeti National Park, Tanzania 1971 July p 86-93 [1228] grazing ecosystem, animal migration, grassland, grazing animals savanna topography, Serengeti National Park, Tanzania	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30–39 agronomy, food and agriculture, maize, potatoes, Mexican agriculture 1976 Sept p 128–150 India, food and agriculture, technology transfer, monsoons, irrigation, fertilizers, rice agronomy, wheat, hybrid crop plants 1976 Sept p 154–163 developing countries, technology transfer, food and agriculture, economic development 1976 Sept p 196–205 greenhouse, climate, plant growth agronomy, photoperiodicity, daynight temperature, 'phytotron', environment simulator 1957 June p 82–94 'greenhouse effect', carbon dioxide 'window', atmosphere, climate, biomass, ocean sediments, humus, threat of 'greenhouse effect' 1978 Jan p 34–43 [1376] Greenland, Arctic, Stone Age hunters Alaska, Siberia, Dorset culture, circumpolar Stone Age culture 1954 June p 82–88 Greenland flora, Arctic flora, desert adaptation, cold adaptation, paleobotany, adaptations to Arctic climate 1956 Feb p 88–98 Greenwich Observatory, poor seeing 1953 Oct p 52 Grelling's paradox, antinomy, paradox, mathematical logic, logic, barber paradox, undecidable questions, Godel's proof, Epimenides' paradox, undecidable questions, Godel's proof, Epimenides' paradox, Zeno's paradox, paradox and foundations of logic 1962 Apr p 84–96 grid-transformation, embryonic development, growth, computer modeling, the shaping of tissues in embryos 1978 June p 106–113 [1391] grief, adaptive value 1978 June p 106–113 [1391] grief, adaptive value 1978 June p 106–113 [1991] 1969 Apr p 52 1978 June p 106–113 [1901] 1969 Apr p 52 1978 June p 106–113 [1901]
submarine rifted ridge time-space continuum, Einstein, electromagnetism 1961 Mar p 94-106 stellar evolution, space-time continuum, gravitational collapse, thermal pressure, singularity, gravitational radius, black hole 1967 Nov p 88-98 galactic evolution, red shift, gravitational instability, primordial fireball, nonumformities, protogalaxies, origin of galaxies 1970 June p 26-35 free fall, Galileo's experiments, terminal velocity, acceleration of gravity 1975 Mar p 102-111 electromagnetic force, 'weak' force, 'strong' force, supergravity, symmetry, quest for unified theory of basic forces 1978 Feb p 126-143 [397] origin of radio energy in space 1963 Mar p 78 gravity constant, interplanetary radar-ranging, lunar occultation, lunar orbit, relativity theory, evidence for decrease of gravitational constant 1976 Feb p 44-52 gravity propulsion, mass transit, underground transport, pneumatic propulsion, railway, transport by 'pedulum' train 1965 Aug p 30-40 gravity theory, supergravity 1977 July p 59 gray whale, whale, animal migration, extinction 1955 Jan p 62-66 grazing, land use, forestry, rangeland, agricultural resources, land management, U S Western states 1970 Feb p 88-96 [1169] grazing animals, animal migration, grassland, grazing ecosystem, savanna topography, Serengeti National Park, Tanzania 1971 July p 86-93 [1228] grazing ecosystem, animal migration, grassland, grazing animals savanna topography, Serengeti National Park, Tanzania 1971 July p 86-93 [1228] Great Lakes, lamprey, Jawless fish pest control, trout, whitefish	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30–39 agronomy, food and agriculture, maize, potatoes, Mexican agriculture 1976 Sept p 128–150 India, food and agriculture, technology transfer, monsoons, irrigation, fertilizers, rice agronomy, wheat, hybrid crop plants 1976 Sept p 154–163 developing countries, technology transfer, food and agriculture, economic development 1976 Sept p 196–205 greenhouse, climate, plant grow th agronomy, photoperiodicity, daynight temperature, 'phytotron', environment simulator 1957 June p 82–94 'greenhouse effect', carbon dioxide 'window', atmosphere, climate, biomass, ocean sediments, humus, threat of 'greenhouse effect' 1978 Jan p 34–43 [1376] Greenland, Arctic, Stone Age hunters Alaska, Siberia, Dorset culture, circumpolar Stone Age culture 1954 June p 82–88 Greenland flora, Arctic flora, desert adaptation, cold adaptation, paleobotany, adaptations to Arctic climate 1956 Feb p 88–98 Greenwich Observatory, poor seeing 1953 Oct p 52 Grelling's paradox, antinomy, paradox, mathematical logic, logic, barber paradox, undecidable questions, Godel's proof, Epimenides' paradox, Zeno's paradox, paradox and foundations of logic 1962 Apr p 84–96 grid-transformation, embry onic development, growth, computer modeling, the shaping of tissues in embry os 1978 June p 106–113 [1391] grief, adaptive value 1969 Apr p 52 gross national product, education, U S population, labor force, age-sex distribution, demographics, U S census, more from the U S census of 1960 1962 Oct p 30–37 gross reproduction rate, demographic transition population growth, world population, zero population growth birth brite paragetics.
submarine rifted ridge time-space continuum, Einstein, electromagnetism 1961 Mar p 94-106 stellar evolution, space-time continuum, gravitational collapse, thermal pressure, singularity, gravitational radius, black hole 1967 Nov p 88-98 galactic evolution, red shift, gravitational instability, primordial fireball, nonumformities, protogalaxies, origin of galaxies 1970 June p 26-35 free fall, Galileo's experiments, terminal velocity, acceleration of gravity 1975 Mar p 102-111 electromagnetic force, 'weak' force, 'strong' force, supergravity, symmetry, quest for unified theory of basic forces 1978 Feb p 126-143 [397] origin of radio energy in space 1963 Mar p 78 gravity constant, interplanetary radar-ranging, lunar occultation, lunar orbit, relativity theory, evidence for decrease of gravitational constant 1976 Feb p 44-52 gravity propulsion, mass transit, underground transport, pneumatic propulsion, railway, transport by 'pedulum' train 1965 Aug p 30-40 gravity theory, supergravity 1977 July p 59 gray whale, whale, animal migration, extinction 1955 Jan p 62-66 grazing, land use, forestry, rangeland, agricultural resources, land management, U S Western states 1970 Feb p 88-96 [1169] grazing animals, animal migration, grassland, grazing ecosystem, savanna topography, Serengeti National Park, Tanzania 1971 July p 86-93 [1228] grazing ecosystem, animal migration, grassland, grazing animals savanna topography, Serengeti National Park, Tanzania 1971 July p 86-93 [1228] Great Lakes, lamprey, Jawless fish pest control, trout, whitefish 1955 Apr p 36-41 eutrophication, water pollution, fishenes, fish population, runoff, silt,	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30–39 agronomy, food and agriculture, maize, potatoes, Mexican agriculture 1976 Sept p 128–150 India, food and agriculture, technology transfer, monsoons, irrigation, fertilizers, rice agronomy, wheat, hybrid crop plants 1976 Sept p 154–163 developing countries, technology transfer, food and agriculture, economic development 1976 Sept p 196–205 greenhouse, climate, plant grow th agronomy, photoperiodicity, daynight temperature, 'phytotron', environment simulator 1957 June p 82–94 'greenhouse effect', carbon dioxide 'window', atmosphere, climate, biomass, ocean sediments, humus, threat of 'greenhouse effect' 1978 Jan p 34–43 [1376] Greenland, Arctic, Stone Age hunters Alaska, Siberia, Dorset culture, circumpolar Stone Age culture 1954 June p 82–88 Greenland flora, Arctic flora, desert adaptation, cold adaptation, paleobotany, adaptations to Arctic climate 1956 Feb p 88–98 Greenwich Observatory, poor seeing 1953 Oct p 52 Grelling's paradox, antinomy, paradox, mathematical logic, logic, barber paradox, undecidable questions, Godel's proof, Epimenides' paradox, Zeno's paradox, paradox and foundations of logic 1962 Apr p 84–96 grid-transformation, embry onic development, growth, computer modeling, the shaping of tissues in embry os 1978 June p 106–113 [1391] grief, adaptive value 1969 Apr p 52 gross national product, education, U S population, labor force, age-sex distribution, demographics, U S census, more from the U S census of 1960 1962 Oct p 30–37 gross reproduction rate, demographic transition population growth, world population, zero population growth birth bare as a contraction of the contraction of the population growth, world population, zero population growth birth bare as a contraction of the contraction
submarine rifted ridge time-space continuum, Einstein, electromagnetism 1961 Mar p 94-106 stellar evolution, space-time continuum, gravitational collapse, thermal pressure, singularity, gravitational radius, black hole 1967 Nov p 88-98 galactic evolution, red shift, gravitational instability, primordial fireball, nonumformities, protogalaxies, origin of galaxies 1970 June p 26-35 free fall, Galileo's experiments, terminal velocity, acceleration of gravity 1975 Mar p 102-111 electromagnetic force, 'weak' force, 'strong' force, supergravity, symmetry, quest for unified theory of basic forces 1978 Feb p 126-143 [397] origin of radio energy in space 1963 Mar p 78 gravity constant, interplanetary radar-ranging, lunar occultation, lunar orbit, relativity theory, evidence for decrease of gravitational constant 1976 Feb p 44-52 gravity propulsion, mass transit, underground transport, pneumatic propulsion, railway, transport by 'pedulum' train 1965 Aug p 30-40 gravity theory, supergravity 1977 July p 59 gray whale, whale, animal migration, extinction 1955 Jan p 62-66 grazing, land use, forestry, rangeland, agricultural resources, land management, U S Western states 1970 Feb p 88-96 [1169] grazing animals, animal migration, grassland, grazing ecosystem, savanna topography, Serengeti National Park, Tanzania 1971 July p 86-93 [1228] grazing ecosystem, animal migration, grassland, grazing animals savanna topography, Serengeti National Park, Tanzania 1971 July p 86-93 [1228] Great Lakes, lamprey, Jawless fish pest control, trout, whitefish	agriculture, introduction to single-topic issue on food and agriculture 1976 Sept p 30–39 agronomy, food and agriculture, maize, potatoes, Mexican agriculture 1976 Sept p 128–150 India, food and agriculture, technology transfer, monsoons, irrigation, fertilizers, rice agronomy, wheat, hybrid crop plants 1976 Sept p 154–163 developing countries, technology transfer, food and agriculture, economic development 1976 Sept p 196–205 greenhouse, climate, plant growth agronomy, photoperiodicity, daynight temperature, 'phytotron', environment simulator 1957 June p 82–94 'greenhouse effect', carbon dioxide 'window', atmosphere, climate, biomass, ocean sediments, humus, threat of 'greenhouse effect' 1978 Jan p 34–43 [1376] Greenland, Arctic, Stone Age hunters Alaska, Siberia, Dorset culture, circumpolar Stone Age culture 1954 June p 82–88 Greenland flora, Arctic flora, desert adaptation, cold adaptation, paleobotany, adaptations to Arctic climate 1956 Feb p 88–98 Greenwich Observatory, poor seeing 1956 Apr p 84–96 grid-transformation, embryonic development, growth, computer modeling, the shaping of tissues in embryos 1978 June p 106–113 [1391] grief, adaptive value 1969 Apr p 52 gross national product, education, U S population, labor force, age-sex distribution, demographics, U S census, more from the U S census of 1960 gross reproduction rate, demographic transition propulation contacts.

elaboration of colonial languages

```
goblet cells, glycoprotem synthesis, Golgi apparatus, mucus,
                                                                                     truth, lagic, philosophy, sentence, metalogic, mathematical proof,
      carbohydrate, sacules
                                                1969 Leb r 100-107 111341
 golter, thyroid, metabolism control, thyroxin, pituitary gland, role of
                                                                                        antimony of the liar, proof and truth
                                                                                                                                         1969 June p 63-77
                                                                                     language organization, linguistics speech errors, spoonensms, syntactic
      thyroid in governing metabolism
                                                       1960 Mar p 119-129
   hypothyroidism, iodine deficiency, epidemiology, thyroid, iodized salt
                                                                                                                                 1973 Dec p 110-117 15561
                                                                                   grammatical relations, visual perception, bilingualism, dyslexia, eye
                                                 1971 June p 92-101 [1223]
                                                                                        movement, language, reading, perception of words
 gold, metallurey, New World archeology, New World archeology, Old
      Copper culture, Peru, copper, lost-wax casting, metalwork, pre-
                                                                                                                                    1972 July p 84-91 [545]
                                                                                   grana, photosynthesis, chloroplast, Hill reaction
      Columbian, New World, 4,000 B C
                                                                                                                                        1953 Nov p 80-84
                                                         1966 Apr p 72-81
                                                                                   granite, sandstone, sand dune, weathering, turbidity currents,
 goldfish, brain metabolism, memory, protein synthesis, learning
                                                                                        stratigraphy, sand origin and history from shape of grain
      conditioned behavior
                                                1967 June p 115-122 [1077]
                                                                                                                                       1960 Apr p 94-110
 Golgi apparatus, glycoprotein synthesis, goblet cells, mucus,
                                                                                  granitization. Earth crust, mountain formation, isostasis, ocean basins
      carbohydrate, saccules
                                                1969 Feb p 100-107 [1134]
                                                                                       ocean floor, tectonic processes, comprehensive review of
 gonadal hormones, adrenal hormones brain circuitry, hormone-sensitive
                                                                                       understanding (before acceptance of continental dult)
      neurons, sex hormones, sexual behavior, sex differences, steroid
                                                                                                                                        1950 May p 32-41
      hormones, action of hormones on nerve tissue
                                                                                     Earth mantle
                                                                                                                                        1955 Apr p 77-82
                                                   1976 July p 48-58 [1341]
                                                                                  grape fermentation, wine, yeast, viticulture, climate, enzymes, chemical
 gonadotrophic hormones, pituitary gland, ACTH, metabolic hormones,
                                                                                       explanation of a good wine, role of climate
      growth hormone, endocrine system, the master gland
                                                                                                                                  1964 Aug p 46-56 [190]
                                                         1950 Oct p 18-22
                                                                                  graph theory, network analysis, nodes and branches, pipelines,
 Gondwanaland, continental drift, glaciation, Laurasia, paleomagnetism,
                                                                                                                                       1970 July p 94-103
                                                                                       powergrids, reliability analysis
      Glossopteris, sea-floor spreading, supercontinents, plate tectonics,
                                                                                  graphite-crystal structure, crystal growth, diamond-crystal structure,
      continental drift confirmed
                                                   1968 Apr p 52-64 [874]
                                                                                      synthetic diamonds, synthesis at low pressure 1975 Nov p 102-109
   continental drift, speciation, reptile evolution, radiation, genetic
                                                                                  grasses, agricultural economics, forage crops, agronomy, hay, legumes
      convergence, Laurasia, mammilian evolution, supercontinent
                                                                                      livestock feed, ruminants, silage, Rhizobium bactena
     breakup and animal diversification
                                                   1969 Mar p 54-64 18771
                                                                                                                                       1976 Feb p 60-75
   mountain formation continental drift, Himalaya formation, Indian-
                                                                                 grasshopper, nerve conduction, muscle contraction, biomechanics of leap
     Ocean formation, magnetization patterns, plate tectonics, sea-floor
                                                                                                                                       1958 Jan p 30-35
     spreading
                                                   1973 May p 62-72 [908]
                                                                                 grassland, ecology, fire, forestry, forest fire, role of fire in climax ecology
   hypothesis confirmed
                                                                                                                              1961 Apr p 150-160 [1099]
                                                            1967 Teb p 58
gong language, African drum language, communication, drums, talking
                                                                                   animal migration, grazing animals, grazing ecosystem, savanna
     drums
                                                        1971 Dec p 90-94
                                                                                     topography, Serengeti National Park, Tanzania
                                                                                                                                1971 July p 86-93 [1228]
gonorrhea, resurgent
                                                            1976 June p 50
Gordion, archeological excavation, Phrygian civilization, Alexander, 700
                                                                                 gravimetry, bathymetry, sonar, ocean floor, continental shelf,
     BC, preclassical Greek link with East
                                                      1959 July p 100-109
                                                                                     sedimentary cores, Lamont Geophyscial Observatory
                                                                                                                                      1956 Dec p 83-94
gorilla autopsy, poor zoo diet
                                                            1955 Dec p 56
                                                                                gravitation, matter, wave-particle duality, energy levels, electromagnetic
Gossamer Condor, aeronautics, man-powered flight
                                                            1977 Oct p 74
                                                                                     force, nuclear forces, field theory, fundamental research, quantum
Gothic arch, architectural engineering, roof, vault, Romanesque barrel
     vault, Byzantine dome, building construction, vaulting technics
                                                                                     jumps, corpuscular streams, what is matter?
                                                                                                                               1953 Sept p 52-57 [241]
                                                     1961 Nov p 144-154
                                                                                  galactic clusters, probability, universe, cosmology, Monte Carlo
Gothic cathedrals, optical model, architectural engineering, Bourges
                                                                                     method, distribution of galaxies as test of cosmologies
     cathedral. Chartres cathedral
                                                       1972 Nov p 90-99
                                                                                                                                  1956 Sept p 187-200
gout, arthritis, colchicine, metabolism, chemistry of gout
                                                                                  wave-particle duality, relativity theory, quantum mechanics, space time
                                                        1958 June p 73-81
                                                                                    continuum, uncertainty principle, PAM Dirac view of physics
  chemistry of gout
                                                           1958 Aug p 50
                                                                                                                                    1963 May p 45-53
government-business relations, economic development, Japan,
                                                                                                                                        1959 Apr p 68
                                                                                  gravity waves and quanta
     employment policy, investment, debt financing Japan's economic
                                                                               gravitation anomalies, geoid, Earth, Vening-Meinesz apparatus, Earth's
                                                       1970 Mar p 31-37
     growth
                                                                                                                                 1955 Sept p 164 [812]
                                                           1948 Oct p 24
                                                                                    gravity
government employment, scientists reject
                                                                               gravitation effects, stellar evolution, tidal effects, contact binaries, binary
government regulation, housing, land use, population density,
                                                                                                                                    1968 June p 34-40
     shantytowns, taxation, urban planning, cities, control of land use
                                                                                    stars stellar fission
                                                                               gravitational acceleration, Galileo's experiments, time-keeping, music as
                                                    1965 Sept p 150-160
                                                                                                                                  1975 June p 98-104
                                                           1975 Oct p 54
                                                                                    time measure
graffiti, prevention
                                                                               gravitational collapse, solar system, Sun, cosmology, dust cloud
graft rejection, skin transplants, immune response, biochemistry of 'self'
                                                                                   hypothesis, gravity, light pressure, thermonuclear reaction, genesis of
                                                      1957 Apr p 62-66
                                                                                                                                   1948 May p 35-45
                                                                                   solar system
  antigens, cell-surface antigens, histocompatability, immune response,
                                                                                 dust cloud hypothesis, binary stars, photophoresis, element abundance
                                              1977 Oct p 96-107 [1369]
     H-2 antigens, HLA antigens
                                                                                                                              1952 Oct p 53-61 [833]
                                                          1965 Dec p 40
                                                                                   angular momentum origin of the Earth
  thymectomy
                                                                                 galactic evolution, barred galaxy, spiral galaxies, elliptical galaxies,
grafting techniques, resource management, gene manipulation forestry,
                                                                                                                                1956 Sept p 100-108
                                                                                   evolution from taxonomy
     Southern pine, tree farming, seed-orchard concept
                                                                                dwarf stars, degenerate gas, white dwarfs, binary stars, 'dying' stars
                                                    1971 Nov p 94-103
                                                                                                                                   1959 Jan p 46-53
grain, proteins, plant protein, plant hybrids, agronomy, Triticale
                                                                                                                 . - supernovae, synchrotron
                                                      1974 Aug p 72-80
grain boundaries, alloys, materials technology, metals, crystal structure,
                                                                                                                  to emission
                                                                                                                            1962 Mar p 41-49 [278]
     lattice defects, dislocations, electron 'gas', nature of metals
                                                                                gravity, stellar evolution space-time continuum, thermal pressure,
                                                    1967 Sept p 90-100
                                                                                                                                 1967 Nov p 88-98
                                                                                  singularity, gravitational radius, black hole
grain combine, mechanical harvesting, cotton picker, agricultural
                                                                                pulsar, white dwarfs, neutron stars, angular momentum, 'lighthouse'
     technology, tomato harvester, hay cuber, cherry picker
                                                                                                                                  1968 Oct p 25-35
                                                      1967 Aug p 50-59
                                                                                  model proposed
                                                                                Crab Nebula, neutron stars pulsar, radio source, stellar evolution,
grain structure, wood, cellulose, lignin, cell structure 1953 Jan p 64-67
                                                                                                                                  1971 Jan p
  materials technology, metalliding, superplasticity, microduplex
                                                                                  angular momentum
                                                                               neutron stars, pulsar, stellar evolution, solid stars, white dwarfs
    structure, thermomechanical processing, metals that can be formed
                                                                                                                                 1971 Feb p 24-31
                                                                                 ultradense matter
                                                     1969 Mar p 28-35
                                                                               interstellar matter, supernovae, shock waves, stellar formation, stellar
  diffraction, gemstones, opal colors, periodic structures, silica-sphere
                                                                                 evolution, birth of massive stars
                                                                                                                       1978 Apr p 110~118 [3005]
                                                     1976 Apr p 84-95
                                                                             gravitational constant, science history, Ectivos experiment, general
grammar, pidgin, linguistics, Creole, gullah, colonialism, evolution and
    packing
                                                                                                                                1961 Dec p 84-94
                                                                                 relativity. Ectvos experiment confirmed
                                                   1959 Feb p 124-134
```

ammonia manufacture, biological nitrogen fixation, metallo-organic	hamster, tissue grafts, immune reaction, tolerance of grafts 1963 Jan p 118-127 [148]
algae, bacteria, legumes, nitrogen fixation, nitrogenase, genetic	hand, toolmakers, human evolution, hominid, evolution of the human
engineering, rhizobium, legumes, symbiosis, mtrogenase, biological	hand 1962 Dec p 56-62 [140] hand axes, human evolution, Olduvai Gorge, toolmakers, man-apes,
ntrogen fixation 1977 Mar p 68-81 habit reversal, evolution, intelligence, probability learning, intelligence	stone tools 1954 Jan p 66–71
compared in five animals 1965 Jan p 92–100 [490]	handedness, symmetry, natural and conventional 1948 Oct p 46-49
habitat selection, animal behavior, ecological adaptation, heredity,	auditory perception, brain hemispheres, cerebral dominance, musical
learning, field experiments with mice 1964 Oct p 109–116 [195]	illusions, hearing, illusions, perception, two-tone illusion
haboob, sand dune classification, dust storms, soil erosion	1975 Oct p 92-104 [566] Harappan civilization, Mohenjo-Daro, Indus valley, archeology, Sumer
1976 Oct p 108-114 sandstorms, haboobs in U S 1973 Jan p 46	1953 Nov p 42–48
Hacilar culture, Neolithic archeology, Turkey, 7000 B C	archeology, Indus valley, Mohenjo-Daro, floods as cause of demise
1961 Aug p 86–97	1966 May p 92–100
Hadrian's Wall, Britain, frontier life, Roman Britain, Vindolanda site	pre-Dravidian script deciphered 1969 Nov p 62 hardness, corundum, crystal structure, cubic boron nitride, diamond,
1977 Feb p 39-46 [692] hadron, neutron neutron diffraction, the neutron as nuclear particle and	materials technology, Mohs scale 1974 Aug p 62–70
as tool of physics 1951 Oct p 44-53	Harijans, class discrimination, untouchables, caste, Hinduism, India, civil
hadron jets, quark hypothesis supported 1976 Apr p 55	nghts 1965 Dec p 13–17
hadrons, high-energy photons, 'strong' force, photons as hadrons	harmonic functions, Brownian motion, probabilistic potential theory, potential theory 1969 Mar p 66-74
1971 July p 94-104 beta decay, bubble chamber experiments, high-energy physics, neutron	potential theory 1969 Mar p 66–74 harmonic oscillation, bridges, suspension bridges, aerodynamics
beam, particle accelerator, positron 1973 Aug p 30–38	1954 Nov p 60–71
dual-resonance model, high-energy physics, light-string theory, quark,	harmonic proportions, musical scale, tone ladder, Pythagorean doctrine,
strong interactions 1975 Feb p 61–67	music and mathematics, Kepler, vibrating string
charmonium, charmed quarks, high-energy physics, gauge theory,	1967 Dec p 92–103 harmonics, musical instruments, music, piano, harpsichord, physics of the
leptons, quark hypothesis, 'color' and 'flavor' in quarks 1975 Oct p 38-50	piano 1965 Dec p 88–99
heavy leptons, J particle, high-energy physics, quantum mechanics,	harmony, physics, string instruments, wind instruments, piano, voice,
quark hypothesis, intermediate vector bosons 1976 Jan p 44-54	musical scale, acoustics, agreeable melodies and physical laws
baryons, high-energy physics, leptons, mesons, quantum numbers, quark confinement, bag model, infrared-slavery model, string model	1948 July p 32–41 harpoon, cultural anthropology, Mesolithic era, Ishango man, African
1976 Nov p 48–60	culture 10,000 B C 1962 June p 105–116
charmed quarks, high-energy physics, quantum mechanics, quark,	harpsichord, musical instruments, music, piano, harmonics, physics of the
charm 1977 Oct p 56–70 [388]	piano 1965 Dec p 88–99
hagfish, cardiac function, comparative psychology, cyclosomes, knot- tying fish, hermaphrodite 1966 Feb p 82-90 [1035]	Harriot, 'English Galileo' 1975 June p 49 harvestman, Phalangida, daddy longlegs, Arachnida, animal behavior,
hahnium, element 105 synthesized 1970 June p 48	natural history 1962 Oct p 119–128 [137]
hailstones, ice crystals, hailstorms 1971 Apr p 96-103	Harvey, science history, blood circulation, life and work of William
hair, dermatoglyphics, skin, surface area, skin glands, thermoregulation,	Harvey 1952 June p 56–62
structure and function of human skin 1965 Feb p 56-66 [1003] bacteria, ectoparasites, skin, fungi, lice, human skin ecosystem	hash table, algorithms, computer language, computer programming, binary search trees 1977 Apr p 63–80
1969 Jan p 108–115 [1132]	Hauksbee, electric power, light, science history, life and work of Francis
Hale telescope, Palomar Observatory, Schmidt telescope, galactic survey,	Hauksbee 1953 Aug p 64-69
cosmology, 200-inch and 48-inch Palomar telescopes 1948 Aug p 12-17	Havasupai, Amerindian, Cohonina, Paleolithic culture, prehistoric man in
Palomar Observatory, cosmology, red shift, stellar populations,	the Grand Canyon 1958 Feb p 97–102 hay, agricultural economics, forage crops, grasses, agronomy, legumes,
interstellar matter, galactic evolution, first yield from 200 inch	livestock feed, ruminants, silage, Rhizobium bacteria
telescope 1952 Feb p 43–51	1976 Feb p 60–75
Hales, plants, root pressure, sap circulation, shoot tension, science history, Stephen Hales, founder of biophysics 1952 Oct p 78-82	hay cuber, mechanical harvesting, cotton picker, agricultural technology, tomato harvester, cherry picker, grain combine 1967 Aug. p 50-59
Hall effect, Etungshausen effect, Nernst effect, Right-Leduc effect,	health, human nutrition, poverty, hunger, population growth, developing
galvanomagnetism, thermomagnetism, science history, industrial	countries, world poverty 1968 Nov p 27-35
technology, technological applications of 19th c discoveries 1961 Dec p 124-136	health care, see medical care
Halley's comet, comet, solar radiation, physics of comet tails	health economics, see medical economics health in Liberia, DDT reduces malaria incidence 1948 Dec p 27
1958 Oct p 44–50	health insurance, medical specialization, medical economics, medical
Halloween, Druid holiday, anthropology 1951 Oct p 62-66 hallucination, electroencephalography, perceptual isolation, boredom,	care, need for organization of medical technology in US
neuropsychology, sensory deprivation, effect of exposure to	1963 Aug p 19-27 public health, morbidity, medical care, health statistics, mortality rates,
monotonous environment 1957 Jan p 52-56 [430]	U.S. National Health Survey 1966 June p. 21–29
central nervous system, drug induced imagery, perceptual illusions,	medical care, medicine, physical incapacitation, morbidity, mortality
perceptual-release theory 1977 Oct p 132–140 [579] hallucinogenics, LSD adverse effects 1966 Feb p 54	rates, hospital care, ambulatory care, triage, introduction to single- topic issue on medical care 1973 Sept. p. 22–33
hallucinogens, alkaloids, mental health, drug addiction, consciousness	medical economics, hospital care, medical care, third-party payment
alteration, LSD, psychosis, psilocybin, mescaline, effects of LSD	1973 Sept. p. 151–159
1964 Apr p 29-37 [483] halobacteria, bacteria, cell membrane, photosynthesis, rhodopsin, salt-	Health Maintenance Organization, see H M O
loving bacteria 1976 June p 38-46 [1340]	health research, see medical research health statistics, public health, morbidity, medical care, mortality rates,
halos, Sun dogs, ice crystals, optics, atmospheric halos	nealth insurance, U.S. National Health Survey 1966 June p. 21–20
1978 Apr p 144–152 [3006] Hamilton, quaternions, complex numbers, non-commutative algebra,	medical care, medical-cost control, national health insurance
mathematics, high-energy physics, life and work of William Rowan	'uncontrollable' expenditures US Federal expenditure on medical
Hamilton 1954 May p. 82_87	hearing, deafness, ear, directional orientation, cochlea
Hammurabi, Sumer, law code, Lipit Ishtar, cuneiform script, earliest law code 1865 B C 1948, June p. 44-47	1957 Aug = 66 70 144
eode 1865 B C 1948 June p 44-47	ristory organs, ommatidia neuroreceptor cells cytology, taste
	buds, now cells receive stimuli 1961 Sept p 222–238 [99]

. . .

ground motion, earthquake dynamics, earthquake prediction, seismic	growth inhibitors, plant community at a t
Waves, strong-motion seismology 1977 than no 69 79 to 5	growth inhibitors, plant communities, plant hormones, plant chemicals antagonistic to other plants 1949 Mar. p. 48-51
ground squirees, behavioral adaptation. Mouve desert, animal behavior	growth rate, child development, Denver longitudinal study, changes in
kidney function, thermoregulation, desert adaptation, desert	proportion 1002 O-1 - 65 70 more
mammais adaptations to heat and aridity 1964. New p. 107. 44	1205 Oct p 05-10 [1005]
ground water, artesian well, piezometric surface, water table, water cycle	1 Tyong, leading reproduction, asexual reproduction, cen
resource management, runoff, ground water in water-resource	tunahara anna hat
management 1950 No. p. 14-10 1815	guano, Peru Current, anchovy, seagulls, El Niño, upwelling
irrigation, ariesian well, agricultural technology. S thara desert water	to the state of th
resource management, land reclamation, intercalary water 'fossil'	Guatamala anthronologi anteriologi anterio
water, making desert fertile 1966 May p. 21. 2	Guatemala, anthropology, central-place theory, market networks
irrigation, tunneling, aqueducts, Iran, underground system, 3,00 years	
old, still in use 1968 Apr. p. 94-10.	guillemot, evolution, speciation, skua, melanism, ornithology, avian
atmospheric circulation, hydrology, water cycle, 'aerological	751 U VAIVE U 1251 U 127-137
accelerator 1973 Apr p 46-61 [907	guilt, anxiety, polygraph, lying, psychosomatic illness, breathing, pulse
center-pivot irrigation, irrigation agricultural technology	The state of the state of the state of
	1967 Jan p 25–31 [503]
1976 June p 90-99 reservoir recharging, water resource management, water cycle	and the state of t
	spreading, continental drift, sea-floor spreading opens new ocean
1977 May p 21-27 [924]	
group behavior, interpersonal relationships, social psychology, conference	
1955 Mar p 31–35	The state of the s
aggression, pecking order, social psychology, experiments in group behavior 1956 Nov. p. 54-58 11541	1955 Jan p 30-35 [810]
	• • • • • • • • • • • • • • • • • • • •
social psychology, conformity, human subjects, group pressure,	gullali, pidgin, linguistics, Creole, colonialism, grammar, evolution and
experiments in susceptibility to group pressure 1961 Dec p 45-51	
crowding, rats, population density, comparative psychology, social	gulls, courtship display, animal behavior, releaser stimulus, displacement
pathology of crowding 1962 Feb p 139-148 [506]	
education, poverty, rural poverty, community action emotional illness,	ethology, social behavior, comparative psychology, animal behavior
social psychology, study of community regeneration	evolution, reconstructing gull family tree from behavior of species
1965 May p 21–27 [634]	
poverty, community action, culture of poverty, subculture of Western	animal behavior, speciation, evolution, sexual behavior, innate
market societies 1966 Oct p 19-25 [631]	behavior, ethology, species discrimination, Larus, eye rings
social discrimination, discrimination, child development, 'in vs out'	1967 Oct p 94-102 [1084]
group discrimination 1970 Nov p 96–102 [530]	Gum Nebula, ionized-hydrogen cloud, Milky Way, Strömgren sphere
humor's function 1967 Sept p 106	1971 Dec p 20-29
group identity, black power, American Negro, racial discrimination.	galaxy structure, interstellar matter, Milky Way, stellar formation,
economic power, ethnic groups, slavery, social deprivation	supernovae, galactic dust clouds, nebulae, Bok globules
1967 Apr p 21–27 [633]	1972 Aug p 48-61
group practice, national health insurance, medical care	Gunflint cherts, bacteria, blue-green algae, fossil cells, evolution, origins
1949 June p 11–15	of life Precambrian rocks, prokaryotic cells, oldest [055][5
group pressure, group behavior, social psychology, conformity, human	1971 May p 30-42 [395]
subjects, experiments in susceptibility to group pressure	Gunn effect, electric field, microwave emission, negative resistance, solid
1961 Dec p 45-51	state physics, electronics, gallium arsenide, solid state microwave generation 1966 Aug p 22-31
group psychotherapy, psychiatry, emotional illness	generation 1900 Aug p 22 3
1950 Dec p 42-45 [449]	gunshot wounds, surgery, medical history, assasination of U.S. President McKinley 1963 Mar p 118-120
for schizophrenics 1962 Mar p 42	McKinley 1963 Mar p 110-123
group theory, high-energy physics, resonance 'particles', Regge poles,	guvot, Afar triangle, Red Sea, Rift Valley, Gulf of Aden, sea floor
temporary associations of particles 1963 Jan p 38-47 [290]	spreading, continental drift, sea-floor spreading opens new ocean 1970 Feb p 32-40 [891]
mathematics, physical sciences, 'eightfold way', field theory, S-matrix	1970 1 to p 32 of
theory, mathematics in physics 1964 Sept p 128-146	gy nandromorphism, chromosomal anomalies, genetic mosaic, chimera, organisms with tissue cells of different genes 1960 May p 118-130
group therapy, emotional illness, therapeutic community, role channeling	gy psum, mining Amerindian, New World archeology, prehistoric man in
1971 Mar p 34-42 [534]	Mammoth cave 1960 July p 130-140
growth, Thompson, form, science history, life and work of D'Arcy	gypsy moth, biological pest control, pheromones, olfactory receptors, sex
Thompson 1952 Aug p 60–66	attractants, silk moth, chemotaxis, communication
ACTH, hormone, sexual characteristics, thyroid-stimulating hormone,	1974 July p 28-35 [1299]
follicle-stimulating hormone, prolactin, androgens, estrogens,	gyres. Farth, ocean circulation, wind, unwelling, the circulation of the
secondary sexual characteristics, human physiology, endocrine	oceans 1955 Sept p 96-104
system, chemical integrators of the body 1957 Mar p 76–88 [1122]	gyroscope, accelerometer, aircraft navigation, navigation, air transport,
adolescence, child development, menarche, earlier maturation of	inertial navigation, commercial adaptation of military and space
children in industrial countries 1968 Jan p 21-27 embryonic development, computer modeling, grid-transformation, the	technology 1970 Mar p 80-86
embryonic development, computer modeling, and treatment of tissues in embryos 1978 June p 106–113 [1391]	
shaping of tissues in embryos 1978 June p 106-113 [1391] growth hormone, pituitary gland, ACTH, gonadotrophic hormones,	
metabolic hormones, endocrine system, the master gland	H
1930 000 0 10 42	II
contisone insulin, estrogens, gene activation,	
	H-R diagram: Hertzsprung-Russell diagram
	H-R diagram, globular cluster stars, dwarf stars, spectroscopy, stellar evolution, subdwarf stars bluer because poorer in heavy elements
A CTU shild development dwarfism, emotional deprivation,	evolution, subdwarf stars bluer because poorer in neavy elements 1961 June p 111–120
	globular cluster stars, stellar evolution. Red Giant stars, stellar
deprivation dwarfism, bothe age, and 1972 July p 76–82 [1253]	modeling main-sequence stars, stellar anatomy, age of cluster stars
adolescence, child development, medical care, 'bone age', menarche,	1970 July p 26-39
heredity vs environment	Haber process, bacteria, nitrogen cycle, nitrogen fixation, blue-green
- Andreast minopis, minimal y maderial	algae, biosphere, nitrate, legumes, eutrophication
dwarfism, genetic disease, congenital anomalies, consanguinity, dwarfism, genetic disease, congenital anomalies, consanguinity, 1967 July p 102-110	1970 Sept p 136–146 [1194]

panhypopituitarism, General Tom Thumb

heavy metal poisoning, chelation, hemochromatosis, lead poisoning.	hemagglutination test, virology, complement-fixation test, neutralization
pharmacology, drug action, Wilson's disease, metal poisoning, bone	test 1955 Mar. p 60-70
cancer, salicylates, aspirin, cancer therapy, chemotherapy, medical	hematite, iron ore, mining, ore beneficiation, low-grade ores, taconite
exploitation of chelates 1966 May p 40-50	1968 Jan p 2835
heavy nuclei, nuclear fission, liquid-drop model, neutron, uranium 235,	hematology, comparative physiology, erythrocyte, structure of red blood
shell model, fission fragments 1965 Aug p 49–59	cell 1957 Jan p 95–102
heavy oil, deposits in U S 1974 July p 47	'hemlock', alkaloids, plant physiology, morphine, strychnine,
heavy water, U.S sales abroad 1956 May p 55	physostigmine, caffeine, conune, quinine, cocaine, ricinine, LSD,
heavy-water reactor, nuclear power, fission reactor, homogeneous reactor,	human toxins in plant physiology 1959 July p 113-121 [1087]
	hemochromatosis, chelation, lead poisoning, pharmacology, drug action,
	Wilson's disease, metal poisoning, heavy metal poisoning, bone
CANDU reactor, nuclear power, natural reactor, fission reactor, CANDU system 1975 Oct p 17-27	cancer, salicylates, aspirin, cancer therapy, chemotherapy, medical
	exploitation of chelates 1966 May p 40–50
Hebrew civilization, Mycenaean civilization, Linear A script, Linear B	because only harmonic harmonic place and property
script, Minoan civilization, Crete, Semites, common origin of Greek	hemocyanin, hemoglobin, chlorocruorin, blood pigments
and Hebrew civilizations 1965 Feb p 102-111	1950 Mar p 20–22
Heisenberg principle, see uncertainty principle	ceruloplasmin, oxygen transport, enzymes, copper deficiency,
HeLa cancer cells, clone, cell culture, somatic cells, tissue culture, single	cytochrome oxidase, copper biochemistry, Wilson's disease,
human cells 1957 Aug p 91–100 [33]	tyrosinase 1968 May p 102-114
helical antenna, radio telescope, interferometry, radio	hemoglobin, hemocyanın, chlorocruorın, blood pigments
1955 Mar p 36–43	1950 Mar p 20–22
helicopters, rotary-wing aircraft, hovering flight, ram jet	sickle cell disease, malaria, amino-acid substitution, anemia
1955 Jan p 36–40	1951 Aug p 56-59
aeronautics, aircraft design, helicopter flight, history, future	chlorophyll, tetrapyrrole ring, cytochrome, respiration, enzymes,
	tetrapyrrole virtuosity 1958 Aug p 77–81
development 1967 Apr p 38-46 heliocentric theory, calendar, solar system, planetary motion, time, year,	allosteric enzymes, myoglobin, X-ray diffraction, amino-acid sequence,
nenocentric meory, calcinuar, solar system, pranctary motion, time, year,	contour maps, folding of four chains, alpha chain, beta chain
astronomy, Copernicus, astronomy, Copernicus, length of calendar	1964 Nov p 64–76 [196]
helium, low-temperature physics, cryogenic technology, superfluidity,	enzymes, protein synthesis, myoglobin, control systems, feedback,
superconductivity 1949 June p 30–39 [206]	cooperative enzymes, allosteric enzymes, control of biochemical
supercooling, superfluidity, neutron scattering, fountain effect, 'quasi	reactions 1965 Apr p 36–45 [1008]
particles' model of liquid helium 1960 Nov p 138-150 [272]	exercise adaptation, breathing, heart, blood circulation, human
crystal structure, solid state physics, zero-point motion, quantum solid,	physiology 1965 May p 88–96 [1011]
solid helium, physical and theoretical properties 1967 Aug p 84-95	evolution, myoglobin, molecular evolution, amino acids, evolutionary
heat, diffusion, solid state physics, thermal waves, second sound,	distance measured by amino-acid substitution
cryogenics, wave propagation, phonon, thermal waves in solid	1965 May p 110-118 [1012]
helium 1970 May p 92–101	comparative physiology, ice fish, oxygen, blood, Antarctic fish without
from natural gas 1958 July p 52	red cells or hemoglobin 1965 Nov p 108-114
see also liquid helium, cryogenics, low-temperature physics	mathematical model, computer modeling, giant molecules, cytochrome
helium 1, superfluidity, helium 2, seond sound, quantum mechanics, low-	helix, myoglobin, molecular modeling, DNA
temperature physics, liquid helium properties	1966 June p 42-52 [1043]
1958 June p 30–35 [224]	brown fat, altitude adaptation, Quechua Indians, acclimatization, deer
helium 2, superfluidity, helium 1, seond sound, quantum mechanics, low-	mice, metabolic rate, exercise, human physiology at high altitude
temperature physics, liquid helium properties	1970 Feb p 52–62 [1168]
1958 June p 30–35 [224]	'anomalous' water, 'biological' water, blood, water, membrane
helium 3/helium 4 dilution, cryogenics, supercooling, nuclear cooling,	permeability, osmosis, erythrocyte, van 't Hoff law
approaching absolute zero, Pomeranchuk method	1971 Feb p 88–96 [1213]
1969 Dec p 26–35	chemotherapy, cyanate, genetic disease, anemia, erythrocyte, sickle cell
helium 3, superfluidity, liquid phase gas phase, solid state physics,	disease 1975 Apr p 44–50 [1319]
quantum effects, quantum fluids, phase transitions	genetic engineering, frog eggs, gene expression, mRNA, RNA molecule
1976 Dec p 56–71	genetic engineering, mog eggs, gene expression, mrkina, kina molecule
as superfluid 1974 Dec p 66	extracellular hemoglobin synthesis 1976 Aug p 60-71 [1343]
helium abundance, cosmology, universe expansion, cosmic background	
radiation, 'big bang' theory, low-energy radiowaves, isotropy,	hemoglobin S, anemia, sickle cell disease, human evolution, malaria
prime al fireball, 'big bang' theory and cosmic background radiation	hematology, adaptive benefits of sickle-cell anemia
1967 June p 28–37	1956 Aug p 87–94 [1065]
helium-cadmium laser, energy levels helium-selenium laser, laser, metal-	hemophilia, congenital anomalies, genetic disease, epidemiology,
gas mixtures, metal-vapor lasers 1973 Feb p 88	mutation, in Queen Victoria's descendants 1965 Aug. p 88-95
helium content, meteorites, cosmic radiation, origin of meteorites	amniocentesis, enzyme deficiency, genetic disease, prenatal genetic
1954 Nov p 36–41	diagnosis, Down's syndrome, Tay-Sachs disease, chromosomal
helium reaction, heat, thermonuclear reaction, stellar interiors, hydrogen	anomalies 1971 Nov p 34-42 [1234]
bomb, solar corona, proton-proton interaction, ultrahigh	hemostasis, platelets, hemagglutination, blood clotting, role of platelets in
temperatures 1954 Sept p 144–154	clotting mechanism 1961 Feb p 58-64
helium-selenium laser, energy levels, helium-cadmium laser, laser, metal-	henge monuments, Neolithic archeology, woodhenges, Britain,
gas mixtures, metal-vapor lasers 1973 Feb p 88	- Woodneriges, Billain,
	Stonehenge 1970 Nov. p. 30. 3c.
Hellenic art, Greek civilization, Macedonia, Pella, mosaic, capital of	Stonehenge 1970 Nov p 30-38 Henry, electrical induction, science history, radiowave, life and work of
Macedonia 1966 Dec p 98–105	Stonehenge 1970 Nov p 30-38 Henry, electrical induction, science history, radiowave, life and work of Joseph Henry 1954 July p. 72-77
Macedonia 1966 Dec p 98–105 Hellenistic Athens, water clock in Tower of Winds 1969 Feb. p. 46	Stonehenge 1970 Nov p 30-38 Henry, electrical induction, science history, radiowave, life and work of Joseph Henry 1954 July p 72-77 hepatitis, cancer, enzyme blood levels, myogardial infaction, cancer,
Macedonia 1966 Dec p 98–105 Hellenistic Athens, water clock in Tower of Winds 1969 Feb p 46 Helmholtz resonators, conservation law, matter conservation.	Stonehenge 1970 Nov p 30-38 Henry, electrical induction, science history, radiowave, life and work of Joseph Henry 1954 July p 72-77 hepatitis, cancer, enzyme blood levels, myocardial infarction, cancer diagnosis, leukemia, medical diagnosis, diagnosis by presence of
Macedonia 1966 Dec p 98–105 Hellenistic Athens, water clock in Tower of Winds 1969 Feb p 46 Helmholtz resonators, conservation law, matter conservation, ophthalmoscope, science history, Hermann von Helmholtz,	Stonehenge 1970 Nov p 30–38 Henry, electrical induction, science history, radiowave, life and work of Joseph Henry 1954 July p 72–77 hepatitis, cancer, enzyme blood levels, myocardial infarction, cancer diagnosis, leukemia, medical diagnosis, diagnosis by presence of abnormal enzymes 1961 Aug p 99–107
Macedonia 1966 Dec p 98–105 Hellenistic Athens, water clock in Tower of Winds 1969 Feb p 46 Helmholtz resonators, conservation law, matter conservation, ophthalmoscope, science history, Hermann von Helmholtz, biography 1958 Mar. p 94–102	Stonehenge 1970 Nov p 30–38 Henry, electrical induction, science history, radiowave, life and work of Joseph Henry 1954 July p 72–77 hepatitis, cancer, enzyme blood levels, myocardial infarction, cancer diagnosis, leukemia, medical diagnosis, diagnosis by presence of abnormal enzymes 1961 Aug p 99–107 Australia antigen 1970 Nov p 30–38
Macedonia 1966 Dec p 98–105 Hellenistic Athens, water clock in Tower of Winds 1969 Feb p 46 Helmholtz resonators, conservation law, matter conservation, ophthalmoscope, science history, Hermann von Helmholtz, biography 1958 Mar p 94–102 hemagglutination, influenza virus immunization, chick-embry o culture	Stonehenge 1970 Nov p 30–38 Henry, electrical induction, science history, radiowave, life and work of Joseph Henry 1954 July p 72–77 hepatitis, cancer, enzyme blood levels, myocardial infarction, cancer diagnosis, leukemia, medical diagnosis, diagnosis by presence of abnormal enzymes 1961 Aug p 99–107 Australia antigen 1970 Aug p 48 interferon, viral disease 1976 Aug p 60
Macedonia 1966 Dec p 98–105 Hellenistic Athens, water clock in Tower of Winds 1969 Feb p 46 Helmholtz resonators, conservation law, matter conservation, ophthalmoscope, science history, Hermann von Helmholtz, biography 1958 Mar p 94–102 hemagglutination, influenza virus immunization, chick-embryo culture, genetic variation, vaccine, difficulty in securing flu immunization	Stonehenge 1970 Nov p 30–38 Henry, electrical induction, science history, radiowave, life and work of Joseph Henry 1954 July p 72–77 hepatitis, cancer, enzyme blood levels, myocardial infarction, cancer diagnosis, leukemia, medical diagnosis, diagnosis by presence of abnormal enzymes 1961 Aug p 99–107 Australia antigen 1970 Aug. p 48 interferon, viral disease 1976 Nov p 68 hepatitis A, antibodies, hepatitis B, transusion hepatitis viral hepatitis
Macedonia 1966 Dec p 98–105 Hellenistic Athens, water clock in Tower of Winds 1969 Feb p 46 Helmholtz resonators, conservation law, matter conservation, ophthalmoscope, science history, Hermann von Helmholtz, biograph 1958 Mar p 94–102 hemagglutination, influenza virus immunization, chick-embryo culture, genetic variation, vaccine, difficulty in securing flu immunization 1953 Apr. p. 27–31	Stonehenge 1970 Nov p 30–38 Henry, electrical induction, science history, radiowave, life and work of Joseph Henry 1954 July p 72–77 hepatitis, cancer, enzyme blood levels, myocardial infarction, cancer diagnosis, leukemia, medical diagnosis, diagnosis by presence of abnormal enzymes 1961 Aug p 99–107 Australia antigen 1970 Aug. p 48 interferon, viral disease 1976 Nov p 68 hepatitis A, antibodies, hepatitis B, transusion hepatitis viral hepatitis
Macedonia Macedonia 1966 Dec p 98–105 Hellenistic Athens, water clock in Tower of Winds 1969 Feb p 46 Helmholtz resonators, conservation law, matter conservation, ophthalmoscope, science history, Hermann von Helmholtz, biography 1958 Mar p 94–102 hemagglutination, influenza virus immunization, chick-embryo culture, genetic variation, vaccine, difficulty in securing flu immunization 1953 Apr p 27–31 platelets, hemostasis, blood clotting, role of platelets in clotting mechanism	Stonehenge 1970 Nov p 30–38 Henry, electrical induction, science history, radiowave, life and work of Joseph Henry 1954 July p 72–77 hepatitis, cancer, enzyme blood levels, myocardial infarction, cancer diagnosis, leukemia, medical diagnosis, diagnosis by presence of abnormal enzymes 1961 Aug p 99–107 Australia antigen 1970 Aug. p 48 interferon, viral disease 1976 Nov p 68 hepatitis A, antibodies, hepatitis B, tranfusion hepatitis, viral hepatitis, Australian antigen (B), viral structure, viral disease
Macedonia Macedonia 1966 Dec p 98–105 Hellenistic Athens, water clock in Tower of Winds 1969 Feb p 46 Helmholtz resonators, conservation law, matter conservation, ophthalmoscope, science history, Hermann von Helmholtz, biography 1958 Mar p 94–102 hemagglutination, influenza virus immunization, chick-embry o culture, genetic variation, vaccine, difficulty in securing flu immunization 1953 Apr p 27–31 platelets, hemostasis, blood clotting, role of platelets in clotting mechanism 1961 Feb p 58–64 blood clotting, fibrinosen molecular biology, throughy, fibrin soles of	Stonehenge 1970 Nov p 30–38 Henry, electrical induction, science history, radiowave, life and work of Joseph Henry 1954 July p 72–77 hepatitis, cancer, enzyme blood levels, myocardial infarction, cancer diagnosis, leukemia, medical diagnosis, diagnosis by presence of abnormal enzymes 1961 Aug p 99–107 Australia antigen 1970 Aug. p 48 interferon, viral disease 1976 Nov p 68 hepatitis A, antibodies, hepatitis B, tranfusion hepatitis, viral hepatitis, Australian antigen (B), viral structure, viral disease 1977 July p 44–52 [1365] hepatitis B, antibodies, hepatitis A, tranfusion hepatitis, viral hepatitis
Macedonia 1966 Dec p 98–105 Hellenistic Athens, water clock in Tower of Winds 1969 Feb p 46 Helmholtz resonators, conservation law, matter conservation, ophthalmoscope, science history, Hermann von Helmholtz, biography 1958 Mar p 94–102 hemagglutination, influenza virus immunization, chick-embryo culture, genetic variation, vaccine, difficulty in securing flu immunization 1953 Apr p 27–31 platelets, hemostasis, blood clotting, role of platelets in clotting mechanism 1961 Feb p 58–64 blood clotting, fibrinogen molecular biology, thrombin, fibrin, role of	Stonehenge 1970 Nov p 30–38 Henry, electrical induction, science history, radiowave, life and work of Joseph Henry 1954 July p 72–77 hepatitis, cancer, enzyme blood levels, myocardial infarction, cancer diagnosis, leukemia, medical diagnosis, diagnosis by presence of abnormal enzymes 1961 Aug p 99–107 Australia antigen 1970 Aug. p 48 interferon, viral disease 1976 Nov p 68 hepatitis A, antibodies, hepatitis B, tranfusion hepatitis, viral hepatitis, Australian antigen (B), viral structure, viral disease 1977 July p 44–52 [1365] hepatitis B, antibodies, hepatitis A, tranfusion hepatitis, viral hepatitis
Macedonia Macedonia 1966 Dec p 98–105 Hellenistic Athens, water clock in Tower of Winds 1969 Feb p 46 Helmholtz resonators, conservation law, matter conservation, ophthalmoscope, science history, Hermann von Helmholtz, biography 1958 Mar p 94–102 hemagglutination, influenza virus immunization, chick-embryo culture, genetic variation, vaccine, difficulty in securing flu immunization 1953 Apr p 27–31 platelets, hemostasis, blood clotting, role of platelets in clotting mechanism	Stonehenge 1970 Nov p 30–38 Henry, electrical induction, science history, radiowave, life and work of Joseph Henry 1954 July p 72–77 hepatitis, cancer, enzyme blood levels, myocardial infarction, cancer diagnosis, leukemia, medical diagnosis, diagnosis by presence of abnormal enzymes 1961 Aug p 99–107 Australia antigen 1970 Aug. p 48 interferon, viral disease 1976 Nov p 68 hepatitis A, antibodies, hepatitis B, tranfusion hepatitis, viral hepatitis, Australian antigen (B), viral structure, viral disease

directional orientation, auditory perception, auditory localization	motorial terrence to the
ommuna nearing 1961 Oct n 132 142 tr	materials, temperature limits, ablation, rocket nozzle, turbine bucket
attention mechanism, speech perception cochleg phonetics	mgn temperatures materials 1954 Sent p 02 166
neuropsychology, hearing two messages at a time	chemistry, regenerative furnace, nitrogen fixation, temperature limits
1062 Apr p. 142 181 14	mgn temperatures chemistry 1954 Sept. p. 109-119
auditory illusions, perception, phonetics, speech perception, illusions	propulsion, energy transformation, aerothermodynamics laminar flow
Day chology allowous as class to opposite perception, illusions	turbulence high temperatures propulsion 1954 Sept p 120-131
psychology, illusions as clues to organization of perceptual	DLISMS mignetohydrodyn migraka taka a taka a ta
apparatus 1970 Dec p 30-33 [5]	
additional pears, brain, neurology, sound vibrations, additional perception	On thermonuclear reaction stell is interest by decree beach and a contract
1973 Oct n 94-102 (129	
loudness variations, musical dynamics, musical instruments, muscal	restant reaction, untaingn temperatures
notation, musician performance 1974 Nov. p. 78-	1954 Sept p 144-154
auditory perception, brain hemispheres, cerebral dominance, musical	The transfer of the state of th
illusions, handedness, illusions perception, two-tone illusion	torch, applications 1957 Aug. p 80–88
mo dong manacaness, musions perception, two-tone musion	diffusion, solid state physics, thermal waves, second sound, cryogenics
1975 Oct p 92-104 [56	
heart, cardiology, sound spectrography, heart sounds, electronic analysis	5 1970 May n 97-101
of neart sounds 1956 May p. 120-13	heat barrier, supersonic flight, aviation, lift barrier 1953 Dec p 80-84
cardiae arrhythmia, muscle contraction, coronary occlusion, cardiae	heat budget of Earth, weather satellites, Tiros, telemetry, atmosphere
pacemaker, operation of cardiac pump 1957 May p. 74-87 16	21 CICCULATION THE MARKES AND ADDRESS THE THE PROPERTY OF THE
exercise adaptation, breathing blood circulation, hemoglobin, human	· · · · · · · · · · · · · · · · · · ·
physiology 1965 May p 88-96 [101	
heart attack, coronary occlusion, etiology and course of a principal cause	
of death	,
heart cells, cell differentiation, cell aggregation, heart contraction,	thermal properties of materials 1967 Sept p 180–188
myogenic rhythm, rat cardiac cells in vitro 1962 May p 141-15	2 heat conservation, counter-current exchange, rete mirabile, physiology,
heart contraction, cell differentiation, cell aggregation, heart cells,	swim bladder, kidney, gill, physics of a physiological invention
myogenic rhythm, rat cardiac cells in vitro 1962 May p 141-15;	2 1957 Apr p %
atrioventricular node, heart rate, cardiac pacemaker, sinus node	heat crop, stem-rust peril 1951 July p 29
1967 Mar p 32-37 [1067	
heart disease, Aschoff bodies, rheumatic fever, streptococcus, infection,	1954 Apr p 70-75
immune response, hypersensitivity 1965 Dec p 66-74	hand authorian and all the same
heart embryology, embryonic development, mesoderm, first heartbeat	
	infrared photography, heat island, climate of cities
1959 Mar p 87–96 [56]	1967 Aug p 15–23 [1215]
heart infarct, cardiac arrhythmia, intensive care, coronary care unit,	heat engines, Philips air engine, external combustion engines, Stirling
fibrillation, coronary occlusion, electrocardiography, nerve	engine, hot-air engine 1948 July p 52-55
conduction 1968 July p 19–27	heat exchange, cooling towers, industrial cooling, energy technology,
heart-lung machine, dialysis, kidney machine, surgery	microclimate 1971 May p 70-78
1954 Aug p 24-27	mackerel shark, rete mirabile, thermoregulation, comparative
cardiac prostheses, cardiac surgery, Fallot tetralogy, patent ductus	physiology, tuna, warm bodied fishes 1973 Feb p 36-44 [1266]
arteriosus, technology and technique of open-heart surgery	heat flow Farth heat Farth mantle convection currents. Earth core,
1960 Feb p 76–90	radioactivity 1950 Dec p 54-57
heart metabolism, cardiology, Starling, 'Law of the Heart', venous	Earth heat, Earth core, plate tectonics 1977 Aug p 60-76 [927]
catheter study 1957 Feb p 50-54	heat of fusion, ice crystals desalination isobutane, sea water freezing
	freezing as alternative to distillation 1962 Dec p 41-47
	heat pipes, capillary action, latent heat, vaporization, heat transfer, heat
heart physiology, digitalis, foxglove, dropsy, digitoxin, cardiac	
insufficiency, history of digitalis 1965 June p 110-119	radiator heat pollution, air pollution, cities, climate, heat emission microclimate
heart rate, atmoventricular node, heart contraction, cardiac pacemaker,	near polition, air polition, cities, citiale, near emission incression
sinus node 1967 Mar p 32–37 [1067]	infrared photography, heat island, climate of cities 1967 Aug p 15-23 [1215]
learning, autonomic nervous system, blood pressure, curare,	1907 Aug p 15-25 (12-7)
electrocardiography, learning voluntary control of autonomic	heat pump, Carnot cycle, thermodynamics, principles and applications of heat pump. 1951 May p 54-59
nervous system 1970 Jan p 30–39 [\$25]	heat pump 1951 May p 5+57
heart sounds, cardiology, sound spectrography, heart, electronic analysis	heat radiator, capillary action, heat pipes, latent heat, vaporization, heat transfer 1968 May p 38-46
of heart sounds 1956 May p 120–130	
heart surgery, arteriography, atherosclerosis, coronary bypass, coronary	heat reflection, construction technology, from a roof paint 1954 June p 46
occlusion 1968 Oct p 36-43	
agric shint 1951 Apr p 33	heat resistance, aluminates, materials technology, ceramics, crystal
heart transplant, artificial heart, kidney transplant, immunosupression,	structure, silicates, ionic bonds covalent bonds nature of ceramics
organ transplant, mechanical heart implant	1967 Sept p 112-124
[965 Nov p 38-46 [1023]	polymers, materials technology, plastics, aromatic hydrocarbons, high
persistance of donor and donee rhythms 1970 Oct p 60	temperature-resistant plastics 1969 July p 90-103
360 operations in retrospect 1978 May p 84	heat sensors, infrared receptors, sensory organs, snake infrared laser,
heartbeat, maternal behavior, mother child interaction, fetal	herpetology 1973 May p 94–100 [1272]
conditioning left-side preference in babyholding	heat transfer, boiling, liquids, nuclear boiling, transition boiling film
1973 May p 24-29	boiling 1954 June p 64-68
heat, flame chemistry, chemical kinetics, flash tube, ram jet, velocity,	capillary action, heat pipes, latent heat, vaporization heat radiator
heat, flame chemistry, chemical kinetics, hash rass, 1953 May p 29–35	1968 May p 38-46
luminosity, spectroscopy luminosity, spectroscopy fire-making, human evolution, fire vegetation, cooking Neolithic	heavy hydrogen, 'big bang' theory, deuterium-hydrogen ratio deuterium
revolution, kiln, furnace, introduction to single-topic issue on heat	synthesis, cosmology, interstellar matter 1974 May p 108-118
	heavy-ion linear accelerator, 'synthetic' elements, element 103,
having entropy equation of state,	lawrencium, transuranium elements, high-flux isotope reactor,
thermodynamics, quantum mechanics, entropy, equation of state,	periodic table at 103 1963 Apr p 68-78
energy, black body radiation, temperature, 1954 Sept p 58-63	heavy leptons, hadrons, J particle, high energy physics, quantum
history propers in the theory of heat	mechanics, quark hypothesis, intermediate vector bosons
Carnot, Rumford, Joule, science history, pioneers in the theory of heat 1954 Sept p 60-61	1976 Jan p 44-54
1004 5-4 - 61-69	leptons, tau particle, elementary particles, small light-particle family
life, temperature range, near and me	gains new member 1978 Mar p 50-57 [398]
flame chemistry, oxy-aluminum torch, reaction least Sept. p. 84–95	
temperatures flame	

			1052 0 . 70
tomic nucleus, nuclear physics, particle-scattering exp	enments,	Cosmotron V-particles	1953 Sept p 78
electron scattering, models of the atomic nucleus		genesis of Argonne accelerator	1956 Apr p 60
1056 In	ily p 55–68 [217]	US-USSR joint facilities	1960 Jan p 71
		omega meson found	1961 Nov p 79
	56 Aug p 29–35	anti-xi-zero	1963 Oct p 54
trange particles, pions, muon, conservation of strange	ness, sorting out		1964 Jan p 54
the multiplicity of particles 1957 Ju	ily p 72–88 [213]	resonance 'particles', 'eightfold way'	•
colliding beam accelerator, cyclotron, synchrotron, str	ong-focusing	particle physics, intermediate boson	1964 Mar p 54
synchrotron, design and purposes of big accelerator	S	quark not observed	1964 June p 54
1958 M	агр 64—76 [251]	nine more particles	1964 July p 44
antimatter, antiproton, antineutron, Bevatron, cosmol	ogy 'universon'.	intermediate boson not observed	1964 Oct p 59
	958 Apr p 34–39	quark, 'S U (3)' extended by 'S U (6)'	1965 Mar p 52
		fifth force not found, time-reversal symmetry vio	
atomic nucleus, shell model, optical model, liquid-dro	p model, charge	Titli force not round, time reversal symmon, the	1965 Apr p 56
exchange, spin-orbit force, resonance 'particles', pro	oton, neutron,	(alaskus of surrents)	1967 Nov p 59
	959 Jan p 75–82	'algebra of currents'	
particle scattering experiments, particle accelerator, a	tomic nucleus,	US budget restrictions	1968 Aug p 42
method and technology of high-energy physics 196	60 Mar p 98–114	X1 particles confirm SU(3)	1969 Mar p 48
particle interaction, muon, electron, 'weak' force, proj	perties of massive	intersecting storage ring at CERN	1971 Jan p 47
negative particle 1961 J	uly p 46–55 [275]	proton scattering at CERN	1971 Sept p 75
astrophysics, neutrino, neutrino astronomy, neutrino		conference on unification of weak and electromage	gnetic forces
1962 A	ug p 90–98 [283]		1972 Nov p 49
resonance 'particles', Regge poles, group theory, temp		unexplained surplus of hadrons	1974 May p 59
	an p 38-47 [290]	J and psi particles	1975 May p 43
		colliding beam facilities	1976 Aug p 42
matter, energy, momentum, conservation law, conser	vation laws in	boson, fermion, guage theory	1977 Mar p 61
	963 Oct p 36–45		
baryons, mesons, 'strong' force, 'eightfold way', conse	ervation laws,	high-energy radiation, origins of life, Miller-Urey ex	
Regge trajectory, resonance 'particles', 'bootstrap'	hypothesis	heterotrophs, fermentation, photosynthesis, au	
1964 F	eb p 74–93 [296]		954 Aug p 44-53 [47]
alternating-gradient synchrotron, 'eightfold way', om		mutation, radiation damage, nuclear medicine, X	-ray, no threshhold to
particle, bubble chamber, particle accelerator, US	Brookhaven	biological damage by radiation 196	0 Apr p 142-153 [71]
National Laboratory experiment	1964 Oct p 36-45	high-flux isotope reactor, 'synthetic' elements, elements	ent 103, lawrencium,
proton spin, spin, 'strong' force, electron scattering, o		transuranium elements, heavy ion linear accele	
	1966 July p 68–78	at 103	1963 Apr p 68-78
		high-gradient magnetic separation, kaolin purification	• •
storage rings, synchrotron, particle accelerator, collid	mg ocam	separation, separation techniques, wastewater	
	v p 107–116 [323]	separation, separation teeninques, wastewater	1975 Nov p 46–54
antimatter, Leidenfrost phenomenon, Zeeman effect	Kiem meory,	high-octane fuel, automobile engines, high compress	
cosmology, high-energy physics and cosmology	106 114 (211)		
	r p 106–114 [311]	combustion chamber design, mechanical vs che	
mesons, particle accelerator, pions, proton, quark, nu	icleons, Regge	premature combustion	1950 Feb p 16–19
	1967 Dec p 76–91	high pressure, synthetic diamonds, carbon phases, t	
elementary particles, energy levels, atom, nucleus, sp	ectroscopy, three	states of matter	1955 Nov p 42-46
spectroscopies'	1968 May p 1519	amoebae, cell, cytology, sol-gel reaction, effect of	high pressure on
Cerenkov radiation, tachyons, speed of light, special	relativity,	cellular activity	1958 Oct p 36-43
hypothetical particles faster than light	1970 Feb p 68-77	magnetic resonance, atomic structure, magnetic f	ield, electric field of
proton model, neutron structure, quark, scattering ex	operiments,	atom, behavior of atoms under high pressure	1965 Jan p 102-108
	1971 June p 60-77	superconductivity, critical temperature, critical te	emperature in certain
atomic nucleus, atomic structure, exotic atoms, kaon	-	metals increases with pressure	1971 Apr p 83-94
atoms, particle accelerator, pions, quantum mecha		high-pressure technology, synthetic diamonds, from	laboratory to
	72 Nov p 102–110	industrial applications	1965 May p 38–46
beta decay, bubble chamber experiments, hadrons, r	•	Earth core, iron-nickel alloy, X-ray diffraction, ci	rustallography core
particle accelerator, positron	1973 Aug p 30–38	studies by analogy, diffraction patterns of iron	allows
antimatter, colliding-beam accelerator, electron-posi	tron engililation	studies of analogy, diffraction patterns of from	1965 June p 100–108
	itton ammanon,	magnetism, ultrastrong magnetic fields, explosive	1905 Julie p 100–108
proton, parton model, quantum electrodynamics	72 0-4 - 104 113		
	73 Oct p 104–113	implosion, flux compression	1965 July p 64-73
colliding-beam accelerator, particle interaction, prot		high-resolution photography, moon, lunar surface, to	
	1973 Nov p 36–44	exploration, Lunar Orbiter space missions	1968 May p 58-78
particle interaction, gauge theory, field theory, 'weal		high school, science curriculum, curriculum reform,	
electromagnetic force, 'strong' force	1974 July p 50–59	enough scientists and engineers	1954 Feb p 27-29
dual-resonance model, hadrons, light-string theory,		curriculum reform, science teaching, physics curr	iculum, Physical
interactions	1975 Feb p 61-67	Science Study Committee unit prosts an annual	d curriculum reform
antimatter, electron-positron annihilation, J particle		Science Study Committee, university sponsored	a anti-anterior resoluti
	, psi particle,	19:	58 Apr p 56-64 [229]
charm, color, quark, storage rings, virtual particle	e, psi particle, es	19: education, mathematics teaching curriculum refo	58 Apr p 56-64 [229]
charm, color, quark, storage rings, virtual particle	e, psi particle, is 1975 June p 50–62	19: education, mathematics teaching curriculum reform 19:	58 Apr p 56-64 [229] orm, university 58 May p 64-74 [238]
charm, color, quark, storage rings, virtual particle charmonium, charmed quarks, gauge theory, hadron	e, psi particle, is 1975 June p 50–62 is, leptons, quark	education, mathematics teaching curriculum reform 19: sponsored curriculum reform 19: science teaching, evolution, religion, curriculum re	58 Apr p 56-64 [229] orm, university 58 May p 64-74 [238]
charm, color, quark, storage rings, virtual particle charmonium, charmed quarks, gauge theory, hadron hypothesis, 'color' and 'flavor' in quarks	e, psi particle, is 1975 June p 50–62 is, leptons, quark 1975 Oct p 38–50	education, mathematics teaching curriculum reform 19: science teaching, evolution, religion, curriculum recreationism, Bible, Man, a Course of Study, big	58 Apr p 56-64 [229] orm, university 58 May p 64-74 [238]
charm, color, quark, storage rings, virtual particle charmonium, charmed quarks, gauge theory, hadron hypothesis, 'color' and 'flavor' in quarks hadrons, heavy leptons, J particle, quantum mechar	e, psi particle, es 1975 June p 50–62 ns, leptons, quark 1975 Oct p 38–50 ncs, quark	education, mathematics teaching curriculum reform 19: science teaching, evolution, religion, curriculum recreationism, Bible, Man, a Course of Study, bic curriculum study	58 Apr p 56-64 [229] orm, university 58 May p 64-74 [238] reform, Darwinism, plogical sciences
charm, color, quark, storage rings, virtual particle charmonium, charmed quarks, gauge theory, hadron hypothesis, 'color' and 'flavor' in quarks hadrons, heavy leptons, J particle, quantum mechar hypothesis, intermediate vector bosons	e, psi particle, ss 1975 June p 50–62 is, leptons, quark 1975 Oct p 38–50 incs, quark 1976 Jan p 44–54	education, mathematics teaching curriculum reform 19: science teaching, evolution, religion, curriculum recreationism, Bible, Man, a Course of Study, big curriculum study high-speed photography, Kerr cell	58 Apr p 56-64 [229] orm, university 58 May p 64-74 [238] eform, Darwinism, plogical sciences 1976 Apr p 33-39 1949 June p 48-40
charm, color, quark, storage rings, virtual particle charmonium, charmed quarks, gauge theory, hadroi hypothesis, 'color' and 'flavor' in quarks hadrons, heavy leptons, J particle, quantum mechar hypothesis, intermediate vector bosons baryons, hadrons, leptons, mesons, quantum numb	e, psi particle, is 1975 June p 50–62 is, leptons, quark 1975 Oct p 38–50 incs, quark 1976 Jan p 44–54 ers, quark	education, mathematics teaching curriculum reform 19: science teaching, evolution, religion, curriculum recreationism, Bible, Man, a Course of Study, big curriculum study high-speed photography, Kerr cell	58 Apr p 56-64 [229] orm, university 58 May p 64-74 [238] eform, Darwinism, plogical sciences 1976 Apr p 33-39 1949 June p 48-40
charm, color, quark, storage rings, virtual particle charmonium, charmed quarks, gauge theory, hadron hypothesis, 'color' and 'flavor' in quarks hadrons, heavy leptons, J particle, quantum mechar hypothesis, intermediate vector bosons	e, psi particle, is 1975 June p 50–62 is, leptons, quark 1975 Oct p 38–50 incs, quark 1976 Jan p 44–54 ers, quark string model	education, mathematics teaching curriculum reform 19: science teaching, evolution, religion, curriculum recreationism, Bible, Man, a Course of Study, bic curriculum study	58 Apr p 56-64 [229] orm, university 58 May p 64-74 [238] reform, Darwinism, pological sciences 1976 Apr p 33-39 1949 June p 48-49 stab
charm, color, quark, storage rings, virtual particle charmonium, charmed quarks, gauge theory, hadron hypothesis, 'color' and 'flavor' in quarks hadrons, heavy leptons, J particle, quantum mechar hypothesis, intermediate vector bosons baryons, hadrons, leptons, mesons, quantum numbe confinement, bag model, infrared-slavery model,	e, psi particle, ss 1975 June p 50-62 ins, leptons, quark 1975 Oct p 38-50 incs, quark 1976 Jan p 44-54 ers, quark string model 1976 Nov p 48-60	education, mathematics teaching curriculum reform sponsored curriculum reform sponsored curriculum reform science teaching, evolution, religion, curriculum relationism, Bible, Man, a Course of Study, big curriculum study high-speed photography, Kerr cell rattlesnake, pit viper, fangs, rattlesnake 'bite' is a rain, streamlining	58 Apr p 56-64 [229] orm, university 58 May p 64-74 [238] reform, Darwinism, ological sciences 1976 Apr p 33-39 1949 June p 48-49 stab 1953 Oct p 100-102
charm, color, quark, storage rings, virtual particle charmonium, charmed quarks, gauge theory, hadron hypothesis, 'color' and 'flavor' in quarks hadrons, heavy leptons, J particle, quantum mechar hypothesis, intermediate vector bosons baryons, hadrons, leptons, mesons, quantum numb confinement, bag model, infrared-slavery model, charmed quarks, hadrons, quantum mechanics qua	e, psi particle, ss 1975 June p 50-62 iss, leptons, quark 1975 Oct p 38-50 incs, quark 1976 Jan p 44-54 ers, quark str, quark str, mg model 1976 Nov p 48-60 rk, charm	education, mathematics teaching curriculum reform sponsored curriculum reform sponsored curriculum reform science teaching, evolution, religion, curriculum relationism, Bible, Man, a Course of Study, big curriculum study high-speed photography, Kerr cell rattlesnake, pit viper, fangs, rattlesnake 'bite' is a rain, streamlining	58 Apr p 56-64 [229] orm, university 58 May p 64-74 [238] reform, Darwinism, ological sciences 1976 Apr p 33-39 1949 June p 48-49 stab 1953 Oct p 100-102
charm, color, quark, storage rings, virtual particle charmonium, charmed quarks, gauge theory, hadron hypothesis, 'color' and 'flavor' in quarks hadrons, heavy leptons, J particle, quantum mechar hypothesis, intermediate vector bosons baryons, hadrons, leptons, mesons, quantum numbe confinement, bag model, infrared-slavery model, charmed quarks, hadrons, quantum mechanics qua	e, psi particle, ss 1975 June p 50-62 1975 June p 50-62 1975 Oct p 38-50 lics, quark 1976 Jan p 44-54 ers, quark string model 1976 Nov p 48-60 rk, charm Oct p 56-70 [388]	education, mathematics teaching curriculum reform 199 science teaching, evolution, religion, curriculum recreationism, Bible, Man, a Course of Study, bid curriculum study high-speed photography, Kerr cell rattlesnake, pit viper, fangs, rattlesnake 'bite' is a rain, streamlining high temperature, hot springs, adaptation, low temp	58 Apr p 56-64 [229] 58 May p 64-74 [238] 58 form, Darwinsm, 610 pical sciences 1976 Apr p 33-39 1949 June p 48-49 5125 1953 Oct p 100-102 1954 Feb p 64-68 62 picaltion 1040 Feb p 46-40
charm, color, quark, storage rings, virtual particle charmonium, charmed quarks, gauge theory, hadron hypothesis, 'color' and 'flavor' in quarks hadrons, heavy leptons, J particle, quantum mechar hypothesis, intermediate vector bosons baryons, hadrons, leptons, mesons, quantum numb- confinement, bag model, infrared-slavery model, charmed quarks, hadrons, quantum mechanics qua 1977 mesons by proton and X-ray beams	e, psi particle, ss 1975 June p 50-62 ns, leptons, quark 1975 Oct p 38-50 nes, quark 1976 Jan p 44-54 ers, quark string model 1976 Nov p 48-60 rk, charm Oct p 56-70 [388] 1949 Mar p 25	education, mathematics teaching curriculum refores sponsored curriculum reform 199 science teaching, evolution, religion, curriculum recreationism, Bible, Man, a Course of Study, big curriculum study high-speed photography, Kerr cell rattlesnake, pit viper, fangs, rattlesnake 'bite' is a rain, streamlining high temperature, hot springs, adaptation, low temp gas compression, shock waves, shock tube, plasm	58 Apr p 56-64 [229] 58 May p 64-74 [238] 58 form, Darwinsm, 610 pical sciences 1976 Apr p 33-39 1949 June p 48-49 5125 1953 Oct p 100-102 1954 Feb p 64-68 62 picaltion 1040 Feb p 46-40
charm, color, quark, storage rings, virtual particle charmonium, charmed quarks, gauge theory, hadron hypothesis, 'color' and 'flavor' in quarks hadrons, heavy leptons, J particle, quantum mechar hypothesis, intermediate vector bosons baryons, hadrons, leptons, mesons, quantum numb confinement, bag model, infrared-slavery model, charmed quarks, hadrons, quantum mechanics qua 1977 mesons by proton and X-ray beams neutral meson found	e, psi particle, ss 1975 June p 50-62 1975 June p 50-62 1975 Oct p 38-50 lics, quark 1976 Jan p 44-54 ers, quark string model 1976 Nov p 48-60 rk, charm Oct p 56-70 [388]	education, mathematics teaching curriculum reform 19: science teaching, evolution, religion, curriculum recreationism, Bible, Man, a Course of Study, bic curriculum study high-speed photography, Kerr cell rattlesnake, pit viper, fangs, rattlesnake 'bite' is a rain, streamlining high temperature, hot springs, adaptation, low temp gas compression, shock waves, shock tube, plasm electromagnetically driven shock waves.	58 Apr p 56-64 [229] brm, university 58 May p 64-74 [238] eform, Darwinism, blogical sciences 1976 Apr p 33-39 1949 June p 48-49 stab 1953 Oct p 100-102 1954 Feb p 64-68 berature, glaciation 1949 Feb p 46-49 a, mechanically and
charm, color, quark, storage rings, virtual particle charmonium, charmed quarks, gauge theory, hadron hypothesis, 'color' and 'flavor' in quarks hadrons, heavy leptons, J particle, quantum mechar hypothesis, intermediate vector bosons baryons, hadrons, leptons, mesons, quantum numb confinement, bag model, infrared-slavery model, charmed quarks, hadrons, quantum mechanics qua 1977 mesons by proton and X-ray beams neutral meson found multiplicity of particles	e, psi particle, ss 1975 June p 50-62 ns, leptons, quark 1975 Oct p 38-50 nes, quark 1976 Jan p 44-54 ers, quark string model 1976 Nov p 48-60 rk, charm Oct p 56-70 [388] 1949 Mar p 25	education, mathematics teaching curriculum refers sponsored curriculum reform 19 science teaching, evolution, religion, curriculum recreationism, Bible, Man, a Course of Study, bid curriculum study high-speed photography, Kerr cell rattlesnake, pit viper, fangs, rattlesnake 'bite' is a rain, streamlining high temperature, hot springs, adaptation, low temp gas compression, shock waves, shock tube, plasm electromagnetically driven shock waves high-temperature physics, plasma jet 26000 decreases	58 Apr p 56-64 [229] brm, university 58 May p 64-74 [238] beform, Darwinism, blogical sciences 1976 Apr p 33-39 1949 June p 48-49 stab 1953 Oct p 100-102 1954 Feb p 64-68 berature, glaciation 1949 Feb p 46-49 a, mechanically and 1963 Feb p 109-119
charm, color, quark, storage rings, virtual particle charmonium, charmed quarks, gauge theory, hadron hypothesis, 'color' and 'flavor' in quarks hadrons, heavy leptons, J particle, quantum mechar hypothesis, intermediate vector bosons baryons, hadrons, leptons, mesons, quantum numb- confinement, bag model, infrared-slavery model, charmed quarks, hadrons, quantum mechanics qua 1977 mesons by proton and X-ray beams neutral meson found multiplicity of particles particles proliterating	e, psi particle, ss 1975 June p 50–62 ns, leptons, quark 1975 Oct p 38–50 nes, quark 1976 Jan p 44–54 ers, quark string model 1976 Nov p 48–60 rk, charm Oct p 56–70 [388] 1949 Mar p 25 1950 Mar p 26	education, mathematics teaching curriculum refers sponsored curriculum reform 19 science teaching, evolution, religion, curriculum recreationism, Bible, Man, a Course of Study, bid curriculum study high-speed photography, Kerr cell rattlesnake, pit viper, fangs, rattlesnake 'bite' is a rain, streamlining high temperature, hot springs, adaptation, low temp gas compression, shock waves, shock tube, plasm electromagnetically driven shock waves high-temperature physics, plasma jet 26000 decreases	58 Apr p 56-64 [229] brm, university 58 May p 64-74 [238] beform, Darwinism, blogical sciences 1976 Apr p 33-39 1949 June p 48-49 stab 1953 Oct p 100-102 1954 Feb p 64-68 berature, glaciation 1949 Feb p 46-49 a, mechanically and 1963 Feb p 109-119
charm, color, quark, storage rings, virtual particle charmonium, charmed quarks, gauge theory, hadron hypothesis, 'color' and 'flavor' in quarks hadrons, heavy leptons, J particle, quantum mechar hypothesis, intermediate vector bosons baryons, hadrons, leptons, mesons, quantum numbe confinement, bag model, infrared-slavery model, charmed quarks, hadrons, quantum mechanics quantum mesons by proton and X-ray beams neutral meson found multiplicity of particles proliterating Furopean consortium (later C E.R N)	e, psi particle, ss 1975 June p 50-62 is, leptons, quark 1975 Oct p 38-50 ics, quark 1976 Jan p 44-54 ers, quark string model 1976 Nov p 48-60 rk, charm Oct p 56-70 [388] 1949 Mar p 25 1950 Mar p 26	education, mathematics teaching curriculum reform 19: science teaching, evolution, religion, curriculum recreationism, Bible, Man, a Course of Study, bic curriculum study high-speed photography, Kerr cell rattlesnake, pit viper, fangs, rattlesnake 'bite' is a rain, streamlining high temperature, hot springs, adaptation, low temp gas compression, shock waves, shock tube, plasm electromagnetically driven shock waves.	58 Apr p 56-64 [229] brm, university 58 May p 64-74 [238] beform, Darwinism, blogical sciences 1976 Apr p 33-39 1949 June p 48-49 stab 1953 Oct p 100-102 1954 Feb p 64-68 berature, glaciation 1949 Feb p 46-49 a, mechanically and 1963 Feb p 109-119 F 1957 May p 62 nt and uses of vacuum
charm, color, quark, storage rings, virtual particle charmonium, charmed quarks, gauge theory, hadron hypothesis, 'color' and 'flavor' in quarks hadrons, heavy leptons, J particle, quantum mechar hypothesis, intermediate vector bosons baryons, hadrons, leptons, mesons, quantum numb- confinement, bag model, infrared-slavery model, charmed quarks, hadrons, quantum mechanics qua 1977 mesons by proton and X-ray beams neutral meson found multiplicity of particles particles proliterating	e, psi particle, ss 1975 June p 50-62 1975 June p 50-62 1975 Oct p 38-50 ncs, quark 1976 Jan p 44-54 ers, quark 1976 Nov p 48-60 rk, charm Oct p 56-70 [388] 1949 Mar p 25 1950 Mar p 26 1950 Mar p 27 1950 June p 28	education, mathematics teaching curriculum refers sponsored curriculum reform 19: science teaching, evolution, religion, curriculum reference teaching, evolution, religion, curriculum recreationism, Bible, Man, a Course of Study, but curriculum study high-speed photography, Kerr cell rattlesnake, pit viper, fangs, rattlesnake 'bite' is a rain, streamlining high temperature, hot springs, adaptation, low temperature physics, shock tube, plasm electromagnetically driven shock waves high-temperature physics, plasma jet 26000 degrees high vacuum, vacuum pump technology, achievement	58 Apr p 56-64 [229] brm, university 58 May p 64-74 [238] beform, Darwinism, blogical sciences 1976 Apr p 33-39 1949 June p 48-49 stab 1953 Oct p 100-102 1954 Feb p 64-68 berature, glaciation 1949 Feb p 46-49 a, mechanically and 1963 Feb p 109-119

1956 June p 37-41 [244]

herbarium resources, botanical collections, food plants, pharmacology heuristic programs, artificial intelligence, computer technology, computer 1977 May p 96-104 [1359] programming herbicide, fertilizers, insecticide, agricultural technology, chemical 1966 Sept p 246-260 hexaflexagons, mathematics, flexagon, flexigation, topology, delight and agriculture 1952 Aug n 15-19 depth of mathematics DDT, soil pollution, gamma radiation, X-ray, soil ecology 1956 Dec p 162-166 hexagonal habit, snow crystals, cloud physics, bullet clusters, tsuzumi 1969 Apr p 88-99 [1138] crystals, variations on a theme bacteria, chemical weapons, biological weapons, Vietnam war, arms 1973 Jan p 100-107 hilbernation, metabolic rate, thermoregulation, body temperature, animal race, CS gas, virus disease, nekettsiae, tear gas, chemical-biological behavior Warfare 1950 Dec p 18-21 1970 May p 15-25 [1176] hummingbird, metabolism, body temperature, thermoregulation, agricultural technology, mulch, weed control, tillage without plow surface-to-volume ratio 1953 Jan. p 69-72 1977 Jan p 28-33 [1349] hypothermia, surgery, shock, metabolism, body temperature, artificial toxin form root-nodule bacterium 1969 July p 54 lowering of body temperature for surgery and shock herding, hunting food gathering, tribal cultures, agricultural society, 1958 Mar p 104-114 aboriginal culture, India, 'living prehistory' in India asphyxia, breathing diving bradycardia, respiratory gas exchange, 1967 Feb p 104-114 diving mammals, diving birds, oxygen storage, selective ischemia, hereditary material, leukocyte, nucleus, DNA, Miescher, spermatozoon human physiology, redistribution of oxygenated blood and 'master nucleus chromatin, discovery of DNA 1968 June p 78-88 [1109] switch of life' 1963 Dec. p 92-106 heredity, sexual reproduction, evolution, origin of sexual reproduction adipose tissue, brown fat, thermoregulation, homeostasis metabolism, 1949 Apr p 52-55 cold adaptation, neonatal physiology, heat production in newborn chromosome, DNA, RNA, nucleoproteins, protein synthesis, DNA 1965 Aug. p 62-65 [1018] animals, including man identified as agent of heredity 1953 Feb p 47-57 [28] basal metabolism, homeothermy, circadian rhythm, feeding behavior animal behavior, habitat selection, ecological adaptation, learning, field circannual rhythm, hypothalamus, squirrels, dormice in hibernation experiments with mice 1964 Oct p 109-116 [195] 1968 Mar p 110-118 [513] porphyria, genetic disease, metabolic disease, George III animal behavior, biological clock, circadian rhythm, circannual 1969 July p 38-46 [1149] rhythm, animal migration, manic depression intelligence, race, whites, IQ, heredity, American Negro, population 1971 Apr p 72-79 [1219] genetics, science policy, social psychology, twins, environment, racial hickory, fences, axe-handles, smoked ham, hickory nuts, economic discrimination 1970 Oct p 19-29 [1199] botany, forest, natural history, shagbark hickory 1948 Sept p 40-43 intelligence, race, whites, IQ. American Negro, heredity, population hickory nuts, hickory, fences, axe-handles, smoked ham, economic genetics, science policy, social psychology, twins, environment, racial botany, forest, natural history, shagbark hickory 1948 Sept p 40-43 discrimination 1970 Oct p 19-29 [1199] hieroglyphs, Sumer, cryptology, a 3,500-year-old agricultural handbook hermaphrodite, cardiac function, hagfish, comparative psychology, 1951 Nov p 54-55 cyclosomes, knot-tying fish 1953 Jan p 26-28 1966 Feb p 82-90 [1035] Sumer, law code, Ur-Nammu heroin, analgesics, morphine, opium, poppy, codeine, Bentley's writing, pictograph, ideographs, Mesopotamia, origin of writing in clay 1978 June p 50-59 [708] compound, drug action, search for strong safe analgesic tokens 1966 Nov p 131-136 [304] high-alumina cement, cement, chemical reaction, Portland cement, 1977 July p 82-90 [370] herpes simplex, virus, chick-embryo culture, symbiosis cement hardening and strength 1949 Nov p 50-53 high compression, automobile engines, 'knock', combustion chamber kerato-conjunctivitis, treatment design, high-octane fuel, mechanical vs chemical solutions for 1962 Apr p 80 1950 Feb p 16-19 herpes virus, adenoviruses, virology, X-ray diffraction, poliomyelitis premature combustion high-energy chemistry, chemical accelerators, molecular beam, ion beam virus, polyoma virus, influenza virus, vaccinia virus, tobacco mosaic 1968 Oct p 44-52 virus, bacteriophage, structure of viruses 1963 Jan p 48-56 sputtering high-energy photons, hadrons, 'strong' force, photons as hadrons adenoviruses, cancer virus, virus disease, viral vaccines 1971 July p 94-104 1973 Oct p 26-33 high-energy physics, particle accelerator, inventory of plant world wide degenerative diseases, immune system, slow virus infection, virus 1948 Oct p 18-19 1974 Feb p 32-40 [1289] disease, kuru, scrapie, cancer virus cosmic radiation, elementary particles, ion traps, secondary radiation herpetology, animal behavior, locomotion, snake, lateral, reculinear, 1949 Mar p 28-39 concertina and sidewinding modes of progression Dublin Institute for Advanced Study, report on a visit by Leopold 1970 June p 82-96 [1180] 1949 Oct p 11-15 heat sensors, infrared receptors, sensory organs, snake, infrared laser Infeld Manchester, Birmingham report on visit by Leopold Infeld 1973 May p 94-100 [1272] 1949 Nov p 40-43 herring, animal navigation, chemotaxis, shad migration, homing 1949 Dec p 40-43 Warsaw, report on a visit by Leopold Infeld behavior, temperature as migration control radiation counters, particle counters, how counters work 1973 Mar p 92-98 [1268] 1950 July p 40-43 'Hertzian' waves, radio, science history, electromagnetism, quantum mechanics, special relativity, atomic structure, science, electromagnetic spectrum Heinrich Hertz biography 1950 Sept p 28-31 physics 1900-1950 1957 Dec p 98-106 particle accelerator, cosmotron, Bevatron, technology of high energy Hertzsprung-Russell diagram, see H-R diagram physics moves into the Giga (billion) volt range 1951 Feb p 20-25 heteropod, 'false bottom', marine biology, plankton, sonar, shrimp, deepmesons, v-particles, fermion boson, the multiplicity of particles sea scattering layer, deep-sea 'layer of life' 1951 Aug. p 24-28 1952 Jan p 22-27 heterostructure lasers, carner-wave generator, communication field theory, Classical physics, quantum fields, elementary particles, technology, crystal structure, diode laser, laser, light-emitting with 20 particles known, a review of the theoretical foundations of 1971 July p 32-40 semiconductor, solid-state electronics 1953 Apr p 57-64 [208] heterosynaptic facilitation, aplysia, neurones, behavior, learning, memory, physics electromagnetic force, nuclear forces, proton, neutron, mesons, particle synapse, memory and learning at nerve-cell level scattering fundamental research, what holds the nucleus together? 1970 July p 57-70 [1182] 1953 Sept p 58-63 heterothermy, 'cold-blooded' animals, ectothermy, metabolism, insect cosmic radiation, massive nuclei, Milky Way, magnetic field, particle flight, sphinx moths, temperature regulation, Mandura sexta warmacceleration, supernovae, fundamental research, where do cosmic 1972 June p 70-77 [1252] up mechanisms 1953 Sept p 64-70 [239] heterotrophs, origins of life, Miller-Urey experiment, high-energy rays come from? quaternions, complex numbers, non commutative algebra, radiation, fermentation, photosynthesis, autotrophs mathematics, Hamilton, life and work of William Rowan Hamilton 1954 Aug p 44-53 [47] 1954 May p 82-87 ecology, energy cycle, biomass, solar energy, food chain, element antiproton, positron proton, Bevatron antimatter, postulation and

1958 Apr p 83-92

1970 Mar p 98-107 [1172]

discovery of antiproton

abundance, autotrophs, the ecosphere

electrophoresis, population genetics

heterozygosity, evolution, gene pool, mutation, genetic load,

atomic nucleus, nuclear physics, particle-scattering ex	neaments	Cosmotron V-particles	1953 Sept p 78
electron scattering, models of the atomic nucleus	periments,	genesis of Argonne accelerator	1956 Apr p 60
	uly p 55-68 [217]	US-USSR. joint facilities	1960 Jan p 71
	956 Aug p 29–35	omega meson found	1961 Nov p 79
strange particles, pions, muon, conservation of strang		anti-xi-zero	1963 Oct p 54
	uly p 72–88 [213]	resonance 'particles', 'eightfold way'	1964 Jan p 54
the multiplicity of particles 1957 J colliding beam accelerator, cyclotron, synchrotron, st		particle physics, intermediate boson	1964 Mar p 54
synchrotron, design and purposes of big accelerator	rs	quark not observed	1964 June p 54
	far p 64-76 [251]	nine more particles	1964 July p 44
antimatter, antiproton, antineutron, Bevatron, cosmo		intermediate boson not observed	1964 Oct p 59
	958 Apr p 34-39	quark, 'S U (3)' extended by 'S U (6)'	1965 Mar p 52
'cosmon', 'anticosmon' atomic nucleus, shell model, optical model, liquid-dro		fifth force not found, time-reversal symmetry violated	•
exchange, spin-orbit force, resonance 'particles', pr	op model, charge		1965 Apr p 56
	1959 Jan p 75–82	'algebra of currents'	1967 Nov p 59
		US budget restrictions	1968 Aug. p 42
particle scattering experiments, particle accelerator, a method and technology of high-energy physics 19	60 Mar n 08 114	Xi particles confirm SU(3)	1969 Mar p 48
particle interaction, muon, electron, 'weak' force, pro	nerties of massis &	intersecting storage ring at CERN	1971 Jan p 47
	July p 46-55 [275]	proton scattering at CERN	1971 Sept p 75
		conference on unification of weak and electromagnetic	
astrophysics, neutrino, neutrino astronomy, neutrino	ug. p 90–98 [283]	70	1972 Nov p 49
		unexplained surplus of hadrons	1974 May p 59
resonance 'particles', Regge poles, group theory, temp	Jan p 38-47 [290]	J and psi particles	1975 May p 43
		colliding beam facilities	1976 Aug p 42
matter, energy, momentum, conservation law, cons	1963 Oct p 36–45	boson, fermion, guage theory	1977 Mar p 61
		high-energy radiation, origins of life, Miller Urey expeni	
baryons, mesons, 'strong' force, 'eightfold way', cons	branthers	heterotrophs, fermentation, photosynthesis, autotro	
Regge trajectory, resonance 'particles', 'bootstrap'	113 pouncsis		Aug. p 44–53 [47]
	Feb p 74–93 [296]	mutation, radiation damage, nuclear medicine, X-ray,	
alternating gradient synchrotron, 'eightfold way', on	Prookhovan		r p 142–153 [71]
particle, bubble chamber, particle accelerator, U S	1964 Oct p 36–45	high-flux isotope reactor, 'synthetic' elements, element le	
		transuranium elements, heavy ion linear accelerator	
proton spin, spin, 'strong' force, electron scattering,	1966 July p 68–78		963 Apr p 68–78
nuclear forces on spin storage rings, synchrotron, particle accelerator, collic		high-gradient magnetic separation, kaolin punification, m	
	v p 107–116 [323]	separation, separation techniques, wastewater purif	
accelerator, spark chamber 1966 No antimatter, Leidenfrost phenomenon, Zeeman effect			75 Nov p 46–54
cosmology, high-energy physics and cosmology	, men meory,	high-octane fuel, automobile engines, high compression,	'knock'
	or p 106–114 [311]	combustion chamber design, mechanical vs chemical	
mesons, particle accelerator, pions, proton, quark, n			950 Feb p 16–19
	1967 Dec p 76–91	high pressure, synthetic diamonds, carbon phases, therm	
elementary particles, energy levels, atom, nucleus, sp			955 Nov p 42–46
	1968 May p 15–19	amoebae, cell, cytology, sol gel reaction, effect of high	pressure on
Cerenkov radiation, tachyons, speed of light, special		cellular activity	958 Oct p 36-43
	1970 Feb p 68–77	magnetic resonance, atomic structure, magnetic field,	electric field of
proton model, neutron structure, quark, scattering e		atom, behavior of atoms under high pressure 196	5 Jan p 102–108
	1971 June p 60-77	superconductivity, critical temperature, critical tempe	rature in certain
atomic nucleus, atomic structure, exotic atoms, kaoi			971 Apr p 83–94
atoms, particle accelerator, pions, quantum mech		high-pressure technology, synthetic diamonds, from labor	ratory to
	72 Nov p 102-110		965 May p 38-46
beta decay, bubble chamber experiments, hadrons	neutrino beam,	Earth core, iron-nickel alloy, X-ray diffraction, crystal	lography, core
particle accelerator, positron	1973 Aug. p 30-38	studies by analogy, diffraction patterns of iron alloy	,s
antimatter, colliding-beam accelerator, electron pos	sitron annihilation,	1965	June p 100-108
proton, parton model, quantum electrodynamics		magnetism, ultrastrong magnetic fields, explosive com	pression,
	973 Oct p 104-113	implosion, flux compression	965 July p 64-73
colliding-beam accelerator, particle interaction, pro	ton-proton	high-resolution photography, moon, lunar surface, teleme	try, space
	1973 Nov p 36-44	exploration, Lunar Orbiter space missions 19	968 May p 58–78
particle interaction, gauge theory, field theory, 'wea		high school, science curriculum, curriculum reform, scien	ice teaching, not
electromagnetic force, 'strong' force	1974 July p 50~59	enough scientists and engineers 19	954 Feb p 27-29
dual resonance model, hadrons, light-string theory,		curriculum reform, science teaching, physics curriculu	m, Physical
interactions	1975 Feb p 61-67	Science Study Committee university sponsored cur-	nculum reform
antimatter, electron positron annihilation, J particl	e, psi particle,	1958 A ₁	pr p 56-64 [229]
charm color, quark, storage rings virtual particle		education, mathematics teaching, curriculum reform, i	iniversity
charmonium, charmed quarks, gauge theory, hadro	1975 June p 50-62	sponsored curriculum reform 1958 M	av p 64-74 [238]
hypothesis, 'color' and 'flavor' in quarks	1975 Oct p 38-50	science teaching, evolution, religion, curriculum reform	n, Darwinism,
hadrons heavy leptons J particle, quantum mechan	nice disary	creationism, Bible, Man, a Course of Study, biologic curriculum study	al sciences
hypothesis, intermediate vector bosons	1976 Jan p 44-54	17.7	76 Apr p 33–39
baryons hadrons, leptons mesons quantum numb	ers, quark	rattlesnake, pit viper, fangs rattlesnake 'bite' is a stab	49 June p 48-49
confinement, bag model, infrared-slavery model	string model		1 Oct = 100 100
	1976 Nov p 48-60	rain streamlining	3 Oct p 100–102
charmed quarks, hadrons quantum mechanics qua	ark, charm	high temperature, hot springs adaptation, low temperature	954 Feb p 64-68
1971	7 Oct p 56-70 [388]	10	10 Eab - 4C 40
mesons by proton and \(\lambda\)-ray beams	1949 Mar p 25	gas compression shock waves shock tube plasma me	chanically and
neutral meson found	1950 Mar p 26	ciccioniagicically only n thock water 1003	Feb p 109-119
multiplicity of particles particles proliterating	1950 Mar p 27	nigh-temperature physics, plasma jet 26000 degrees E	1007 1/ /-
European consortium (later C E.R.N)	1950 June p 28	mgn vacuum, vacuum pump technology, achievement and	duses of vacuum
CERN financed	1952 Feb p 34	10	50 May p 20-24
	1952 Dec p 34	ion pump	1953 Jan p 36
			p 20

high-voltage current, circuit breakers, electric power, plasma ares	lyonedian observation
1071 1 - 70	hoarding, observed in rats 1950 July p 29
argustatinge transmission, afternating current, electric nower, nower,	and the state of t
Garantino de la	igloo, teepee, yurt, tent, sod hut, adobe house, stilt house
economic advantages of high-voltage transmission	'hole' plasma, plasma physics, electron plasma, positive ion plasma,
1964 May p 38-4	plasmas in solids as models for study of gas plasmas
mgiway engineering, automobiles, wheel hounce road hudding	1963 Nov. p. 46-53
'corrugated' road surface, 'washboard' road surface	hole tone, feedback, vortex edge tone perodi name a histor cound
1963 Jun p 128-13	waves, whistles, flutes, organs and rocket engines 1970 Jan p 40-46
urban planning, Ciudad Guyana, cities, land ownership, economic geography, a model city in Venezuela 1965 Sept. p. 122-13	holographic model, holography, memory, learning, brain function.
geography, a model city in Venezuela 1965 Sept. p. 122–13	
urban planning, central city, cities, mass transit, open space, diversity, 'paths'	remembering 1969 Jan p 73-86 [520]
1903 Sept p 209-21	
mgnway safety, international statistics 1971 Feb p 4 motor-vehicle accidents 1971 Apr p 5	
Hilbert program, Chinese remainder theory, computability theory,	- interview of the first reconstruction, color notography
Diophantine equations mathematics 1973 Nos. p 84-9	1968 Feb p 40-48
negative proof of 10th problem 1970 Scot n. 8	
Hilbert spaces, mathematics, set theory, logic, paradox, non-Euclidian	memory, learning, brain function, interference patterns, monkey brain
space, non-commutative algebra, science, mathematics 1900-1950.	holographic model, neurophysiology of remembering
undecidable questions 1950 Sent p 40-43	2 1969 Jan p 73-86 [520]
Hill reaction, photosynthesis, chloroplast, grana 1953 Nov p 80-80	laserless holograms, white-light holograms 1976 Oct p 80-95
Himalaya formation, mountain formation, continental drift,	character recognition by computer 1966 Jan p 48
Gondwanaland, Indian-Ocean formation, magnetization patterns,	by sound waves 1968 Jan p 46
plate tectonics, sea-floor spreading 1973 May p 62-72 [908	- ^^
mountain formation, continental drift, earthquake zones, Gobi Desert,	computer memory, magnetic-film holography 1969 Sept p 98
India-Eurasia collision, plate tectonics, sea-floor spreading, Tibetan plateau 1977 Apr. p. 30-41	acoustic holography, laser, sound waves, interference, acoustic imaging
plateau 1977 Apr p 30-41 Hinduism, class discrimination, Harijans, untouchables, caste, India, civil	
rights 1965 Dec p 13–17	homeostasis, fever, leukocyte, thermoregulation, hypothalamus, etiology of fever 1957 June p 62-68
hippocampal system, memory, brain organization, rats, spatial memory	body water, water balance, distribution between intracellular and
1977 June p 82–98	
Hippocratic oath for scientists. World Federation of Scientific Workers	wound shock, body fluids, shock, emergency medicine, treatment of
1948 June p 24	shock 1958 Dec p 113-124
hippopotamus, animal husbandry, antelope, giraffe, elephant, buffalo,	bacterial-cell wall, lysozyme, bacterial cytoplasm, protoplasts,
rhinoceros, wildlife husbandry in Africa 1960 Nov p 123-134	bacteriophage, flagella, dissection of bacteria by lysozyme
Hispaniola, West Indies, New World archeology, stone artifacts, island	1960 June p 132-142
chains, sea routes, seafaring hunters from Central America?	thermoregulation, hypothalamus, human physiology, human body thermostat 1961 Jan p 134-147 [129]
1969 Nov p 42–52 [652] histamine reaction, aspirin, inflammation, analgesics, fever,	adipose tissue, hibernation, brown fat, thermoregulation, metabolism,
bronchospasm, anaphylactic shock, mode of action and hazards of	cold adaptation, neonatal physiology, heat production in newborn
most widely used drug 1963 Nov p 96-108	animals, including man 1965 Aug p 62-65 [1016]
histocompatability, fetus as transplant, immune response, immunological	homeotherms, behavioral adaptation clothing clothing and body-
privilege, reproduction, trophoblast, nidation, placenta	temperature control 1956 Feb p 109-110
1974 Apr p 36–46	basal metabolism, hibernation, circadian rhythm, feeding behavior,
antigens, cell-surface antigens, graft rejection, immune response, H-2	circannual rhythm, hypothalamus, squirrels, dormice in hibernation 1968 Mar p 110-118 [513]
antigens, HLA antigens 1977 Oct p 96–107 [1369] histocompatibility, antigens, HLA-associated diseases 1978 Jan p 64	Homer Linear R script Minoan language Greek civilization, cryptology,
antibodies, cell membrane, antigens, immune response,	an account of the decimerment 1934 IVIAY P 10 "
immunoglobin, lymphocytes, B-cells, T-cells	homing behavior, bird migration, bird navigation 1948 Dec p 18-23
1976 May p 30-39 [1338]	salmon, fish migration, animal navigation, chemotaxis
histones, cell nucleus, chromatin, chromosomal proteins, DNA, gene	1955 Aug p 72–75
regulation, nucleoproteins, oxidative phosphorylation	anımal behavior, developmental psychology, kittens, learning, suckling 1972 Dec p 18-25 [552]
1975 Feb p 46–57 [1315]	animal naugation, chemotavis, herring shad migration, temperature as
histoplasmosis, fungal infection, respiratory infection, airborne infection, epidemiology, coccidioidomycosis 1948 June p 12-15	migration control 1973 Mar p 92-98 (1200)
tornado vector 1955 Jan p 44	biological clock, bird navigation 1974 Dec p 96-107 [1311]
history of exploration, Antarctica, I G Y, Antarctic Treaty, introduction	hominid hand toolmakers human evolution evolution of the human
to a single-topic issue on Antarctica 1962 Sept p 60-63	hand 1962 Dec p 56-62 [140]
history of medicine, see medical history	Australopithecus, Gigantopithecus, human evolution, pongids 1970 Jan p 76-85
history of science, see science history	African hominids, brain evolution, fossil hominid brains, human brain,
history of technology, see technology history thitch-hiker's' thumb, Dunkers, genetic drift, endogamous group, ear	pongid brains, endocranial casts 1974 July p 106-113 [000]
lobes, blood typing 1953 Aug p 76–81 [1062]	human evolution, Miocene fossils, primate evolution, Ramapithecus
Litties Phoenician script, Karatepe citadel 1949 Aug p 22-23	1977 May p 28–35 [695]
Arrawa Anatolia, archeology	Olduvai Gorge, toolmakers, human evolution, foodsharing, evolution of behavior, evidence for protohuman behavior in two-million-year-
	old sites 1978 Apr p 90-108 [706]
	see also man-anes
multiphasic screening, Kaiser health plan, 5070 Apr p 15–23	hominoid, anthropoid, primate evolution, fossil primates, early relatives
well' medical care financing, Kaiser health plan, Medicaid, Medicare,	of man 1964 July p 50–62 [622]
medical care financing, Karser Routh programmed medical technology, national health insurance	ls
	Dec p 28-35 [636]
Hoabinhian culture, Neolithic archeology, agricultural revolution, Spirit 1972 Apr p 34-41 [675]	Homo, man-apes, human evolution, Australopithecus, Paranthropus,
Cave site, I namend	Plesianthropus 1949 Nov p 20-24 [832]
hoar frost, avalanche control, snow, mountains, types, 1966 Feb p 92-101	
prevention of slides	

Homo erectus, human evolution, fossil men, Java man, Peking man,	amphibian, metamorphosis, frog, thyroxin, pituitary gland,
Homo erectus in family tree of H sapiens 1966 Nov p 46-53 [630]	hypothalamus, neurosecretory system, chemistry of amphibian
European fossils 1966 Jan p 49	metamorphosis 1966 May p 76-88 [1042]
dates in question 1969 Sept p 101	marine birds, phalarope, sexual behavior, animal behavior, parental
Homo habilis, earliest man(?) 1964 May p 62	care, sex role 1969 June p 104-111
third human species? 1964 Aug p 43	calcitonin, thyroid, metabolism calcium metabolism, bone, human
human evolution, Olduvai Gorge 1965 May p 50	physiology, recognition and characterization of calcitonin 1970 Oct p 42-50
Homo monstrosus, monsters, manlike creatures, mythology	•
1968 Oct p 112–118	ACTH, ATP, glucogenesis, glycolysis, epinephrine, cell metabolism, cyclic AMP, activation of cyclic AMP by hormones
Homo sapiens, Neanderthal man, Charente skull, Galley Hill skull,	1972 Aug p 97–105 [1256]
human evolution, Swanscombe cranium, antiquity of Homo sapiens 1948 July p 16-19	hypothalamic hormone, luteinizing hormone, neurohumoral factors,
1001 7	pituitary control, thyroid-stimulating hormone, TSH
bones 75,000 years old 1951 June p 35 homogeneous reactor, nuclear power, fission reactor, heavy-water reactor,	1972 Nov p 24–33 [1260]
enriched uranium, A E C program 1951 Apr p 43–50	chemotherapy, drug effects, liver function, pharmacology, vaccine,
fission reactor, nuclear power, breeder reactor, boiling-water reactor,	antibiotics, medical care, herbial medicine 1973 Sept p 102-112
sodium-cooled reactor, fast neutron reactor 1954 Dec p 33–39	a pharmaceutical business 1951 Mar p 30
honeybee, social insect, natural history 1955 Aug p 52–60	intermedin 1956 Nov p 70
communication, insect behavior, bee dances, honeybee sound	medieval China 1964 Feb p 68
communication 1964 Apr p 116–124 [181]	hormone-like substances, fatty acids, feedback, drug therapy, nervous
honeybee housekeeping, pollen, hive environment	system, prostaglandin 1971 Nov p 84-92 [1235]
1972 Apr p 92-98 [1247]	hormone-sensitive neurons, adrenal hormones, brain circuitry, gonadal
honey bee housekeeping, honeybee, pollen, hive environment	hormones, sex hormones, sexual behavior, sex differences, steroid
1972 Apr p 92–98 [1247]	hormones, action of hormones on nerve tissue
'Honi' phenomenon, visual perception, 'Ames room', personality,	1976 July p 48–58 [1341]
aniseikonic lenses, anxiety, emotional relationships condition	horn, evolution, antler, osteogenesis, bone, keratin, ungulates, differences between horns and antlers 1969 Apr p 114–122 [1139]
perception 1959 Apr p 56-60 hoof-and-mouth disease. U.SMexico convention 1952 Oct p 38	horn flare, musical instruments, physics of brasses, trumpet bell, trumpet
hoof-and-mouth disease, U.S. Mexico convention 1952 Oct. p. 38. Hooke, astronomy, microbiology, science history, life and work of Robert	pipe 1973 July p 24–35
Hooke 1954 Dec p 94–98	horology, evolution of the clock 1959 Oct p 86
Hooke body, rheology, flow of matter, Newton body, St Venant body,	horse, badger, dog, cheetah, locomotion, deer, comparative anatomy,
how solids flow 1959 Dec p 122–138 [268]	running, how animals run 1960 May p 148-157
Hopewell cult, Amerindian, burial mounds, New World archeology	animal husbandry, mules, donkeys, genetics and natural history of
1964 Dec p 90-102	mule 1970 Dec p 102–109 [1208]
Hopi Indians, Amerindian, Tewa Indians, cultural assimilation, Pueblo	horseshoe crab, animal navigation, polarized light, Nichol prism, dichroic
Indians 1957 June p 126–136	material 1955 July p 88–94
hopping energetics, animal behavior, kangaroos, mammalian evolution,	vision, Limulus, ommatidia, visual perception, optic nerve, horseshoe
marsupial 1977 Aug p 78–89 [1366]	crab as laboratory animal 1956 Dec p 113–122
hops, beer, enzymes, yeast, brewing fermentation, chemistry and microbiology of brewing 1959 June p 90-100	horticulture, flowering, plant hormones, photoperiodicity, control of flowering 1952 May p 49-56 [113]
hormonal action, lactogenesis, milk, mammary gland, casein, cell	virology, 'tulipomania', benign virus infection 1960 Aug p 138–144
secretion, composition and synthesis of cow's milk	hospital, in 'family doctor' role 1972 Feb p 40
1969 July p 58–68	hospital care, medical care, medicine, physical incapacitation, morbidity,
cell communication, genetic code, communication, nerve impulse,	mortality rates, ambulatory care, triage, health insurance,
metabolic information 1972 Sept p 42-51 [1257]	introduction to single-topic issue on medical care
cell receptors, endocrine hormones, gene regulation, protein synthesis,	1973 Sept p 22–33
steroid hormones 1976 Feb p 32-43 [1334]	medical care, in-patient care, out-patient care, medical technology,
on maternal behavior 1972 Nov p 52	medical history, triage 1973 Sept p 128–137
hormonal induction, DNA, chromosome puffs, insect chromosome, RNA synthesis, gene regulation 1964 Apr p 50-58 [180]	health insurance, medical economics, medical care, third-party payment 1973 Sept. p. 151-159
synthesis, gene regulation 1964 Apr p 50-58 [180] hormone, cortisone, ACTH, inflammation, degenerative diseases, stress,	payment 1973 Sept p 151-159 medical technology, medical care, ambulatory care, morbidity,
experience with and appraisal of two hormonal drugs	international comparison of medical care systems
1950 Mar p 30–37 [14]	1975 Aug p 17-25
acetylcholine, nerve impulse, serotonin, synapse, emotional illness.	hospital infections, staphylococcus, antibiotic resistance, revival of
neurotransmitters, central nervous system, physiological psychology,	classical aseptic routines 1959 Jan p. 41-45
chemical mediation of nerve impulses 1957 Feb p 86-94	host-parasite relationship, fleas, parasitism, hormone, rabbits, estrus,
ACTH, sexual characteristics, growth, thyroid-stimulating hormone,	adaptation, the rabbit flea and rabbit hormones
follicle-stimulating hormone, prolactin, androgens, estrogens,	1965 Dec p 44-53 [1027]
secondary sexual characteristics, human physiology, endocrine system, chemical integrators of the body 1957 Mar p 76-88 [1122]	host-restriction endonuclease, DNA operator, DNA repressor, gene expression, gene regulation, operator-repressor system
progesterone, pregnancy, uterine muscle, menstrual cycle, hormone	1976 Jan p 64-76 [1333]
inhibition of uterine muscle contraction 1958 Apr p 40–46 [163]	host-specificity, virus disease, influenza virus, bacteriophage,
flowering, photoperiodicity, plant circulation, pigment,	poliomyelitis virus bacteriophage, antigen-antibody reaction
photoperiodicity in regulation of plant physiology	immunity, infection, viruses in infection and in the laboratory
1958 Apr p 108-117 [112]	1951 May n. 43.51
fat metabolism, tissue, obesity, fat tissue, diet, role of fat metabolism in human physiology 1959 Dec p 70-76	nostility, prejudice, insecurity, attitude survey 1950 Oct p. 11, 13
numan physiology 1959 Dec p 70-76 skin color, pigmentation, melanin, melanocytes, melatonin	hot-air engine, Philips air engine, heat engines, external combustion engines Stirling engine 1948 July p. 52-55
1961 July p 98–108	engines Stirling engine 1948 July p 52-55 cryogenic technology, Stirling cycle, refrigeration, closed cycle,
animal behavior, brain stimulation, neurotransmitters, drive activation	displacer 1965 Apr - 110 122
b) injection of chemicals into rat brain 1964 June p 60–68 [485]	hot-atom chemistry, chemical reaction, nuclear reaction, by drogen
avian reproduction, ring dove, breeding cycle, sexual behavior,	Chemistry at high velocity
fertilization 1964 Nov p 48–54 [488]	hot spots, domes, island arcs, plate tectonics, ocean rifts, plumes
fleas, parasitism, host-parasite relationship rabbits, estrus, adaptation, the rabbit flea and rabbit hormones 1965 Dec p 44-53 [1027]	Voicanoes
1303 Dec p 44-33 [1027]	not springs, adaptation high temperature, low temperature, glaciation
	1949 Feb p 46-49

hot water, energy resources, solar energy, residential heating, windows, low-potential energy, Sun can supply most of the 30 percent of fuel	anthropology, culture as concept, science, anthropology 1900 1950 1950 Sept p 87-94
energy consumed in domestic heating 1951 Feb p 60-65	Rh factor, Rh negative gene, Ro gene, blood typing, race
house sparrow, biological clock, circadian rhythm, photoperiodicity, pineal organ, nonvisual light receptors 1972 Mar p 22–29 [1243]	l951 Nov p 22-25 bipedal walking, lumbar vertebrae, pelvis, lower-back pain, 'scars of
household appliances, consumer-product research, consumer protection,	human evolution' 1951 Dec p 54-57 [632]
energy conservation, product safety, product technology, N B S	natural selection, gene mutation, mutation, eugenics, 'man's genetic
1977 Dec p 47–53	future' 1952 Feb p 68-74 evolution of behavior, toolmakers 1953 Dec p 65-72
housework, sex role, time spent in housework 1974 Nov p 116-120	evolution of behavior, toolmakers 1953 Dec p 65-72 Olduvai Gorge, toolmakers, man-apes, hand axes, stone tools
housing, racial discrimination, segregation, American Negro, Puerto Ricans, poverty 1965 Aug p 12-19 [626]	1954 Jan p 66-71
urban planning, central city, suburbs, cities, metropolitan area,	fire-making fire vegetation, cooking, Neolithic revolution, kiln
conurbation, evolution of the metropolis 1965 Sept p 64-74	furnace, heat, introduction to single-topic issue on heat 1954 Sept p 52-57
land use, population density, shantytowns, taxation, government	primates, oreopithecus, orepithecus in lineage of Homo sapiens
regulation, urban planning, cities, control of land use 1965 Sept p 150-160	1956 June p 91-100
urban renewal, slums, cities, relocation, eminent domain, urban	anemia, sickle cell disease, hemoglobin S, malaria hematology, adapine
planning, U.S. experience with Federal subsidy of urban renewal	hanafite of cickle-cell anemia 1900 Aug P 07-74 (1003)
1965 Sept p 194–204	Neanderthal man, Neolithic archeology, Shanidar cave, layer by layer, 100,000 years occupation by man
shantytowns, Calcutta, cities, urbanization, caste, poverty, traffic, Calcutta, a city of the poor 1965 Sept p 90–102	Non-desthal man co-existence of Homo sapiens and
Calcutta, a city of the poor 1965 Sept p 90-102 shantytowns, squatters, land use, urban sociology, 'barriadas' of Lina,	Manndarthal man
Peru 1967 Oct p 21–29	science history, Neanderthal man, Devon caves, stone tools, idea of
building codes, building construction, construction technology	than's antiquity Garge cultural evolution, role of tool
1971 Mar p 16–25 [341] 1949 Mar p 27	making in biological evolution of man, introduction to single topic 1960 Sept p 62-75 [60]
Housing and Urban Development, new US cabinet office established	1700 Sept p
1965 Oct p 38	baboons, social behavior, comparative psychology, social anthropology, Kung bushmen, sexual behavior, origin of society
hovering flight, helicopters, rotary-wing aircraft, ram jet 1955 Jan p 36-40	1300 Sept P
aerodynamics, animal behavior, bird flight, insect flight, clap-fling	communication, speech, language, origin of speech 1960 Sept p 88-96 [603]
mechanism flin mechanism, lift generation	anthropology, steatopygia, climate, human migration, race, population,
[6/2 Nov b 80-8/ [1331]	genetic variation, ancient migration and human diversity
Hubble constant, 'big bang' theory, cosmic background radiation, ether	1300 gcbr b -
drift, anisotropy in 3-degree Kelvin radiation 1978 May p 64-74 [3008]	agricultural revolution, Fertile Crescent, cultural anthropology, Neolithic archeology, 8000 B C domestication of plants and animals 1960 Sept p 130-148 [605]
astrophysics, red shift 1972 Feb p 41	Neolithic archeology, 8000 B C domestication of paints and 1960 Sept p 130–148 [605]
hull design, marine engineering, yacht design, towing tank tests, sail	social evolution, social behavior, cities, urban revolution 1500 B C 1960 Sept p 153–168 [606]
design Vecalus Penaissance medical history, his de Humani	origin of cities
Corners Fabrica work of aft	Renaissance, scientific revolution, Industrial Revolution 173–190 science and technology, 13th c to 20th c 1960 Sept p 173–190 science and technology, 13th c to 20th c 1960 Sept p 173–190 science are science and technology, 13th c to 20th c
medical history, Galen, Galen, work and influence 1957 Mar p 105-114	demographics, population growth, cultural evolution, agricultural
neuronsychology, eye, ear, Descartes, 17th c	revolution, Industrial Revolution, popular la server et lived
	perspective on human population growth, now many even human population growth growth, now many even human population growth gr
	genetic adaptation, natural selection, civilization, culture, human evolution in man-made environment 1960 Sept p 206-217 [609]
knee joint, surgical prosthesis, surgical replacement of the knee joint 1978 Jan p 44-51 [1378]	evolution in man-made chynomics.
. 1954 Apr p 40	hand, toolmakers, hominid, evolution of the human nanu 1962 Dec p 56-62 [140]
human behavior, social psychology, cognitive dissolution 1962 Oct p 93-102 [472]	Homo erectus, fossil men, Java man, Peking man, Homo erectus in 1966 Nov p 46-53 [630]
preperception	family tree of H sapiens
asocial behavior, behavioral psychology, criminal and the criminal law criminology, milieu therapy, behavioral science and the criminal law 1963 Nov p 39-45 [480]	
criminology, milieu therapy, ochavioration 1963 Nov p 39–45 [480]	Australopithecus, Gigantopithecus, nominio, ponisios 1070 Ian p. 76-85
epidemiology, bubonic plague, public health, Black Death, population history, long-term effects of plague, Europe 1348-50 1964 Feb p 114-121 [619]	1971 Apr p 30-40
history, long-term effects of plague, Europe 1964 Feb p 114-121 [619]	apes, fossil primates, population genetics, genetic variation 1972 Jan p 94-103 [676]
child development, cognitive development, infant perceptions, 1972 Mar p 74-82 [542]	n - manufactis
discrepancy principle	hominid, Miocene fossils, primate evolution, Ramaphinecus 1977 May p 28-35 [695]
behavioral regression, child development, cognition p 38-47 [572] infant perceptions, learning 1976 Nov p 38-47 [572]	hominid, Olduvai Gorge, toolmakers, foodsharing evolution of
m v C dation included to 1000 Oct n 63	behavior, evidence for protonalitati of the policy and policy of 108 [/00]
assembly assembly assembly assembly 1968 June p 46	sites 1950 Feb p 28 man-ape thumb 1955 Mar p 56
bystander intervention in 'emergency' bystander intervention in 'emergency' human brain, African hominids, brain evolution, fossil hominid brains, human brain, African hominids, brain evolution, fossil hominid brains,	Makapansgat cave 1956 Apr p 61
hominid, ponglu biams, with 1074 hily p 100-115 1000)	Oreopithecus physical anthropology, effect of diet on hereditary features 1958 Aug p 52
a names theory probability, zero-sum game, military	and all a NA
	Australopitheous and Parantinopo, 1960 July p 85
a olistion man-appear a tolistics of	Olduvai Gorge fossil 1962 May p. 76
Paranthropus, primates, hominids branched from 1948 May p 16–19	Fact Terran nrimate total form of 10
million years ago Homo sapiens, Neanderthal man, Charente skull, Galley Hill skull Homo sapiens, Neanderthal man, Charente skull, Galley Hill skull Homo sapiens	Olduvai Gorge Homo habilis Olduvai Gorge Homo habilis natural-selection intensits appraised natural-selection intensits appraised natural-selection intensits appraised substitution in hemoglobin chains
Homo sapiens, Neanderthal man, Chaterno Swanscombe cranium, antiquity of Homo sapiens 1948 July p 16-19	natural-selection intensity appraised man ape phylogens by amino-acid substitution in hemoglobin chains into the high
man-apes, Homo, Australopithecus, Paranthropus Plesianthropus 1949 Nos. p. 20-24 [832]	
Manual sub-and	

oldest Frenchman	1971 Dec p 42	tests of 'enriched' food	1972 Jan p 50
Homo erectus in Australia	1972 Oct p 48	polyunsaturated beef	1973 May p 43
anthropology, Lake Rudolf skull	1973 June p 39	human physiology, heat death, what causes he	
anthropology, Ethiopian skull	1974 Dec p 64	A CTTY 1	1954 Apr p 70-75
Ramapithecus antecedent to Homo erectus	1976 May p. 56	ACTH, hormone, sexual characteristics, gr hormone, follicle-stimulating hormone, j	owiii, iiiyioid-siiiiiulatiiig
anthropology	1976 Oct p 57 1976 Oct p 57	estrogens, secondary sexual characteristi	es endocune system
toolmakers, bones found near Olduvzi Gorge		chemical integrators of the body	1957 Mar p 76–88 [1122]
human eye, vision, infant, learning, eye-hand co	1950 Feb p 20–22 [401]	insulin, amino-acid sequence, sugar metab	
vision, glaucoma, iridectomy, blindness	1959 Aug p 110–117	of insulin	1958 May p 99-106
optical illusion, vision, sensory perception, 'a		angiotensin, hypertension, kidney function	
'cortical satiation'	1962 Jan p 44-49		1959 Mar p 54-58
color vision, vision, visual adaptation	1962 May p 62-72 [465]	lung, breathing, alveoli, mechanism of brea	
eye movement, feedback, visual tracking, visu	ual scanning, control	homeostasis, thermoregulation, hypothalai	
mechanisms of the eve	1964 July p 24–33	1	1961 Jan p 134–147 [129]
vision, eye movement, saccades, visual attent	ion, fovea, visual fixation,	acceleration, manned space flight, weightle	1962 Feb p 60–70
experiments with eye-marker camera	1968 Aug. p 88–95 [516] 1975 Dec p 70–81	human centrifuge, g stress carcinogenesis, cigarette smoking, tobacco.	
aging, cataract, eye lens, vision human feces, coprolites, diet, human nutrition,		disease, effects of smoking	1962 July p 39–51
numan reces, copromes, diet, numan nutruon,	1975 Jan p 100–109 [687]	asphyxia, breathing, diving bradycardia, re	
human migration, New World archeology, Bern		diving mammals, diving birds, hibernati	
river, 'How man came to North America'	1951 Jan p 11–15	ischemia, redistribution of oxygenated b	
anthropology, human evolution, steatopygia,	, climate, race, population,	life'	1963 Dec p 92–106
genetic variation, ancient migration and hi	uman diversity	sarcoplasmic reticulum, muscle fiber, elect	
l	960 Sept p 112–127 [604]	sarcoplasmic reticulum, functions deduc	
pottery, navigation, Japan, Ecuador, New W	1966 Jan p 28–35	exercise adaptation, breathing, heart, blood	1965 Mar p 72–80 [1007]
for 3,000 B C trans-Pacific contact New World archeology, Onion Portage site,		exciteise adaptation, breathing, heart, blood	1965 May p 88–96 [1011]
bridge, Alaska, stone artifacts, gateway to	America	gas exchange, thorax, lung, pulmonary ven	
	1968 June p 24-33	vital capacity, mechanics and physiology	of breathing, anatomy of
US population, population redistribution,	US census,	lung	1966 Feb p 56-68 [1034]
suburbanization, US census of 1970	1971 July p 17–25	Ama, diving, diving women, Korea, Japan,	2
colonization, human population, immigration	1974 Sept p 92–105	metabolism, adaptation calcitonin, thyroid, metabolism, calcium m	1967 May p 34-43
cat color, genetic variation, gene mutation, p		recognition and characterization of calci	
	977 Nov p 100-107 [1370] .	blood pressure, autonomic nervous system	
black migration in U S	1956 Apr p 68	yoga, Zen Buddhism, physiology of med	
human nutrition, marine biology, food, food fr		ananta faatraanna athlatias marahalaas m	1972 Feb p 84-90 [1242]
population, food production, UN technical	1949 Oct p 16–19	sports, footracing, athletics, psychology, m Aesop principle	etabolism, running records, 1976 June p 109–119
problem'	1950 Aug p 11–15	fertilization, 60-hour-old embryo	1950 July p 28
trace elements, iron, manganese, zinc, coppe	J .	effects of trumpet playing	1959 June p 86
	1953 Jan p 22-25	human population, foodchain, food chain, eco	
kwashiorkor, malnutrition, diet, food supply	y 1954 Dec p 46–50	'the human crop' malnutrition, food supply, hunger, human	1956 Apr p. 105-112
obesity, hunger, appetite, neurophysiology, of overeating	1956 Nov p 108–116	capybara, manatee, mussels, developing	
economic development, agricultural technol		sources	1967 Feb p 27–35 [1068]
food production, nutritional self-sufficier		birth control, India, infant mortality, famil	y planning, medical care.
development	1963 Sept p 72-80 [1153]	expenence in an Indian village	1970 July p 106-114 [1184]
atherosclerosis, cardiovascular disease, arte	nes, epidemiology,	food production, fertilizers, pollution, irrig	ation, biosphere, agricultural
cholesterol, coronary occlusion, diet, lipic	us, piaque, artery wan 1966 Aug p 48–56	revolution, soil erosion, biosphere capac	ily to produce food
malnutration, food supply, human population		demographic transition, economic develop	1970 Sept p 160-170 [1196]
eland, capybara, manatee, mussels, devel		zero population growth, introduction to	single-topic issue on the
unorthodox food sources	1967 Feb p 27-35 [1068]	human population	1974 Sept n 30_39
poverty, hunger, population growth, develoworld poverty		birth rate, death rate, demographic transiti	on, population-growth
land reform, agricultural technology, food s	1968 Nov p 27–35	history birth control, reproductive physiology, sex	1974 Sept p 40-51
FAO, F.AO Indicative World Plan	1970 Aug p 54–69 [1186]	ommon reproductive physiology, sex	1974 Sept p 52-62
corn, lysine, plant breeding, plant protein,		genetic drift, race, population genetics, seri	um protein analysis
high-lysine corn	1971 Aug p 34-42 [1229]		1974 Sept n 80_89
diet, fasting, metabolism, starvation, kwasł physiology of starvation	1971 Oct p 14–21 [1232]	colonization, human migration, immigratio	on policy, slave trade
intravenous feeding, medical care, syntheti	c diet 1972 May p 73-80	developed countries, demographic transition	1974 Sept p 92-105
brain function, carbohydrate, neurotransm	utters, serotonin,	population growth	1974 Sept = 108 120
tryptophan, feedback food supply, population control, world foo	1974 Feb p 84–91 [1291]	developed countries, progenitive family, de	mographic transition
agnicultural production	1974 Sept p 160-170	des aloned countries to have facility	1974 Sept p 122-132
coprolites, diet, human feces, prehistoric n	nan	developed countries, labor force, sex role,	Aomen's status
desalesses	1975 Jan p 100-109 [687]	birth rate, mortality rates, population expl	1974 Sept p 136–147
developing countries, poverty, hunger, mal agniculture			1074 Comt - 140 100
amno-acid deficiencies dietary requireme	1976 Sept p 40-49	food supply, human nutrition, population agricultural production	control, world food bank,
agneulture	1976 Sept p 50-64	foreign aid, technology transfer, developing	1974 Sept p 160-170
protein deficiency assessed soybean protein beverages	1967 July p 41	assistance	1074 5 100 100
relief of magnesium deficiency	1968 Aug. p 44	human-resource development, industrial tech	70100
- G	1969 July p 71	development, industrialization, educatio	n, education for economic

development	1963 Sept p 140-1	In .
human resources, age-sex distribution, fertility, U	S census mortality	47 hyaluronidase, fertilization, parthenogenesis, progesterone, zona pelhoda
rates, population of U.S.	1951 Sept p 28_	1951 Mar n 44.47
physics gets the brightest	1052 Nr	Hosacum found New
human sexual behavior, English Kinsey report, con	10100 1050 A.	World archeology, pioni name -
numan subjects, common cold, virus disease, chilli	ng test. Salisbury	
England, Study	1951 Eab - 20	chromosome doubling, colchicine, plant genetics 'cataclysmic 45 evolution'
group behavior, social psychology, conformity,	מדמנות הדפכניוים	1951 Apr p 54-39
experiments in susceptibility to group pressur	e 1961 Dec - 45	wheat, einkorn, wild einkorn, emmer, fungi, chromosome doubling plant breeding, origin and perfection of wheat 1953 July p 50-59
midified consent, medical ethics, medical resear	rch 1976 Feb p 25-	piant breeding, origin and perfection of wheat 1953 July p 50-59 DNA, RNA, ribosomal RNA, gene transcription, gene complement,
oud monvations	1954 Nov - 4	density-gradient centrifugation, DNA-RNA hybridization
human value, science, social values, introduction to	an issue reviewing	experiments 1044 May n 48 56
advance of science 1900-1950	1950 Sept p 20-2	cell culture, cell hybridization, cell differentiation, Sendai virus gene
humanities, National Foundation on the Arts and		Manning mouse-rat mouse-human higherd calls in laborators
Hummer, acoustic toys, Corrugahorn	1966 Sept p 10	12 1969 Apr p. 26-35 [1137]
hummingbird, metabolism, body temperature, there	1974 June p 5	6 cell hybridization, gene mapping mouse-human hybrid cells somatic
hibernation, surface-to-volume ratio	moregulation,	cells 1974 July p 36-44 [1300]
humor, psychoanalysis, psychiatry, laughter, psych	1953 Jan p 69-7	The same of Marie Control of the Children of t
interpretation of humor	osis, rieudian 956 Feb p 31–35 [435	culture, somatic cells, genetics of human cancer
language, physics, jocular physics, broken Englis	h tribute to Nicto	· ·
Bohr	1956 Mar p 93-10	mouse and normal human cells 1968 Jan p 51
humoral immunity, antibodies, bursa, cell differenti	ation Recells Tealle	2 hybrid corn, corn, agronomy, technology and promise of hybrid com 1951 Aug p 39-47
immune system, lymphocytes, thymus 1974	Nov p 58-72 [1306	Food and Agriculture Organization supplies seed to Europe and
humus, soil conditioners, polyacrylates, polyvinylite	es, cellulose, tilth	Middle East 1948 July p 31
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1953 Aug p 36-38	genetic vulnerability 1971 June p 54
carbon dioxide 'window', atmosphere, climate, bi	omass, ocean	hybrid crop plants, 'green revolution', India food and agriculture
sediments, 'greenhouse effect', threat of 'greenl	nouse effect'	technology transfer, monsoons, irrigation, fertilizers nee, agronomy,
197	8 Jan p 34-43 [1376]	wheat 1976 Sept p 154-163
hunger, obesity, human nutrition, appetite, neuroph	ysiology,	hybrid rice. China, economic development, rice, hybrid wheat,
physiological mechanisms of overeating	1956 Nov p 108-116	
malnutrition, food supply, human population, hu	man nutrition,	hybrid wheat, plant hybrids, wheat, agronomy, food production
Incaparina, eland, capybara, manatee, mussels,	developing countries,	1969 May p 21-29
unorthodox food sources 1967	Feb p 27-35 [1068]	" - 12 71
human nutration, poverty, population growth dev health, world poverty		
economic development, 'green revolution', popula	1968 Nov p 27–35	Hydra, regeneration, model for study of multi cellularity 1957 Dec p 118-125
agriculture, introduction to single-topic issue or		sexual reproduction, asexual reproduction, cell differentiation growth
appropriate and an appropriate or solve appropriate or	1976 Sept p 30–39	regulation, carbon dioxide as 'sex gas' 1959 Apr p 145-156
developing countries, poverty, malnutrition, food		regeneration, biological form, cell differentiation, cellular polarity
human nutrition	1976 Sept p 40-49	ambruonio dei alonment, mornhogenesis, mornhogens
world map	1953 Oct p 52	1974 Dec p 44-54 [1307]
hunter-gatherer societies, climate, cultural evolution,		hydration, water, ice, hydrogen-ion migration snow crystals hydrogen bonds, physical and chemical properties 1956 Apr p 76-89
	1976 Aug p 30-38	bonds, physical and chemical properties 1956 Apr p 10-07
hunting, moas, extinction, evolution, New Zealand fl		concrete, Portland cement, X-ray diffraction, cement chemistry of concrete 1964 Apr p 80-92
deer, food supply, population control	1954 Feb p 84-90 955 Nov p 101-108	concrete hydraulic press, ultrahigh-pressure technology 1960 Apr p 90
Clovis culture, mammoth-bone deposits, Folsom p		hydraulic servomechanisms, control systems automatic control
	966 June p 104-112	servemechanisms actuators frequency response pheumalic
Paleo-Indians, bison, Olsen-Chubbuck site, New W		servomechanisms control systems 1952 Sept p 30-03
reconstruction of bison hunt, kill, butchering	1967 Jan p 44-52	hydraulics, riverbed, meanders sine-generated curve least-work path for
herding, food gathering, tribal cultures, agricultura	l society, aboriginal	river 1966 June p 60-70 [869]
	967 Feb p 104-114	hydrazine, rocket fuel, Raschig synthesis reducing agent 1953 July p 30-33
chimpanzee, food sharing, carnivorous chimpanzee chimpanzees, feeding behavior, Gombe National	S Omnivorous	by drawing radical functor impressational frozen free radicals low
chimpanzees, feeding benavior, Golide National	Jan p 32–42 [382]	temperature physics modelling of Jupiter 1956 June p 119-128
climate, Europe, Paleolithic settlements, stone tools		hydro-engineering, economic development irrigation. Mekong river
	1976 reb p 88-99	monegone floade rice Mekang river plan United Nations
hunting societies, bone, Neolithic archeology, Neolithi	c village, Suberde	1963 Apr p 49 59
outs in Turk av	968 NOV P 90-100	agricultural irrigation canals pipelines Jordan Valley Plan water supply, Israel, Jordan 1965 Mar p 23-31
energy cycle, Eskimo, food chain, seal, power, Ballin	n Island, ecosystem	supply, Israel, Jordan (965 Mar p 25-37) hydrocarbon cracking, catalysis corona discharge free radicals ozone
19/1 Sej	pt p 104–115 [665]	nolymenzation corona chemistry water purification
hurricane-modification experiments, weather control, h	1964 Dec p 27-37	1965 June p 30 95
aismoulli	1954 June p 32-37	hydrocarbons, fossil record organic molecules sedimentary rock gas
nurricanes, typhoons, radar, meroeroses, upper atmosphe	re, tropical origin	chromatography chlorophyll 'chemical fossily
		1967 Jan p 32 43 [305]
national state of the state of	300,000 years ago	conformational isomerism, chemical bond, organic molecules conformation and reactivity 1970 Jun. p. 58, 70 [131]
		hadrochloric acid direction alcohol aspirin stomuch mucos i self
Hutterites, mental health, psychosis, standard expectar	Dec p 31-37 [440]	direction caleguards 1974 Jin D 70 93 (1477)
epidemiology	1951 June p 38	by developting power generation, alternating current electric power high
no problems hyaline membrane disease, alveoli, lung collapse prema	iture infants	voltage transmission, power transmission, corona discharge
lecithin, breathing, surface tension, surfactant, soa	plike agents	economic advantages of high soltage transmission 1974 Mas p. 35-47
regulate surface tension in lungs	2 Dec p 120-130	hydrogen, radio astronomy interstellar matter, 21 centimeter line
fetal lungs, infant, lung, surfactant	973 Apr p 74-85	1953 D c p 42 46

Index to Topics hypothalamus

interstellar matter, ultraviolet radiation, cosmic dust grains	- 72 90	hydrolysis, proteins, peptide bond, zymogen, trypsin,	
spectroscopy, radio astronomy, absorption line, interstellar ma		enzymes, enzymes, structure and function of pro enzymes	1964 Dec p 68–79
centimeter wave absorption 1957 July	p 48–55	hydrosol, light scattering, photometry, molecular size	•
chemical reaction, nuclear reaction, hot-atom chemistry, chem		spectra, measurement	1953 Feb p 69-76
high velocity 1966 Jan	p 82–90	hydrothermal extraction, mineral deposits, mineral re	sources, plate
energy resources, electrolyzer technology, hydrogen-energy ecc		tectonics, mineral prospecting, non-ferrous ore	2 1.1 96 05 1000
liquified hydrogen, cryogenic storage, fuel cell 1973 Jan	p 13–21 Oct p 56	plate tectonics, sea-floor spreading, metals, mid-oc	3 July p 86–95 [909] ean tidge
1	Feb p 44	manganese nodules, origin of metal deposits on	
storage in hydrides 1972 A	Aug p 46		Feb p 54-61 [929]
hydrogen bomb, arms race, thermonuclear reaction, the Hydroge	n Bomb	hydroxyapatite crystal, bone, calcium, cartilage, feedb	
- first of four articles published at the time the US government	nent		1955 Feb p 84-91
determined to proceed with its development, production, pe and deployment 1950 Mar		hydroxyl maser, maser, cosmic masers, water maser, i interstellar matter, astrophysics, quantum mecha	
and deployment 1950 Mar arms race, the Hydrogen Bomb – second of four articles published.			1978 June p 90–105
the time the US government determined to proceed with it	S	hydroxyl monohydrate, ionospheric ion	1968 Nov p 60
development, production, perfection and deployment		hydroxyl radiation, protostars	1968 Mar p 54
1950 Apr		hydroxyl radical, Doppler effect, microwaves, galaxy,	
arms race, the Hydrogen Bomb – third of four articles publish time the US government determined to proceed with its	ed at the	gas clouds microwaves, interstellar matter, maser, infrared ast	1965 July p 26–33
development, production, perfection and deployment		levels, protostars, interferometry	1968 Dec p 36-44
	/p 11–15	intense radiation unexplained	1967 Oct p 50
arms race, the Hydrogen Bomb - fourth of four articles publis	shed at	hydroxyproline, collagen, proline, collagen fibril, trop	
the time the US government determined to proceed with it	ts	connective tissue, nature and properties of most	
development, production, perfection and deployment	ep 11-15	Hygas process, coal gasification, energy resources, ga	961 May p 120–130
heat, thermonuclear reaction, stellar interiors, solar corona, pi		Lurga process, synthane process, CO ₂ acceptor process, CO ₂ acceptor process.	
proton interaction, helium reaction, ultrahigh temperatures		technology	1974 Mar p 19-25
1954 Sept p	144–154	hygrometer, meteorology, radiosonde, rain gauge, and	
arms control, 'Oppenheimer case', debate over 'super'	106 112	barometer, instrumentation of meteorology	1951 Dec p 64-70
U S begins its development 1975 Oct p	Mar p 24	hyla, chameleon, catfish, skin color, chromatophores, change color	now animais 1952 Mar p 64–67
military secrecy, censorship of Bethe article in SCIENTIFIC	7 2 ·	hyperactive child, behavior, encephalitis, temperamen	it, genetic disease.
AMERICAN 1950	May p 26	amphetamines, possibly innate disease syndrome	;
	Dec p 27		Apr p 94–98 [527]
	Jan p 30 Oct p 50	hypernuclei, particle physics, lambda hyperon, hypero	
atomic bomb test, Fortunate Dragon, Marshall island	Oct p 30	hyperons, particle physics, lambda hyperon hypernuc	1962 Jan p 50-56 clei
	May p 46		1962 Jan p 50-56
	Aug p 46	hypersensitivity, allergy, immune reaction, antigens, a	intibodies, serum
	Feb p 54 Dec p 72	sickness asthma, allergy, stress	1948 July p 26-29
hydrogen bonds, ionic bonds, covalent bonds, Van der Waals fo		antigens, immune response, antibodies, phagocytos	1952 Aug p 28–30
range forces, chemical bond, antigen antibody reaction, pro		response, leukocyte, allergy, thymus gland, lymp	hatic system,
	t p 14-17	cellular immunity	1964 Feb p 58-64
protein structure, protein synthesis, amino-acid sequence, per bond, tertiary structure, nature, diversity and function of p		Aschoff bodies, rheumatic fever, streptococcus, infe response, heart disease	
1950 June p		hypersonic wind tunnel, Mach 10	1965 Dec p 66-74 1949 Dec p 31
proteins, polypeptide chain, amino acids, X-ray crystallograp	hy, alpha	hypertension, atherosclerosis, angiotensin, stress, etio	logy and care of
helix 1954 July p	51–59 [31]	hypertension	1948 Aug n 44-47
water, ice, hydrogen-ion migration, snow crystals, hydration, and chemical properties 1956 Apr	physical r p 76–89	angiotensin, kidney function, human physiology, is angiotension	olation of
hydrogen density, nebulae, Orion nebula, stellar evolution, ultra	aviolet	venous system, plethysmography, vasoconstriction,	1959 Mar p 54–58
radiation, dating interstellar bodies 1965 Feb	p 90-101	dilating and constricting blood reservoir 1968	Jan p 86-96 [1093]
hydrogen-energy economy, energy resources, hydrogen, electrol	yzer	hyperthermia, physiology of fever	1056 Jan n 52
technology, liquified hydrogen, cryogenic storage, fuel cell	n p 1321	hypnosis, sleep, suggestibility, physiological psychologhypnosis	gy, experiments in
hydrogen-ion migration, water, ice, snow crystals hydrogen bor	nds	hypnosis psychiatry, anthropology, medicine, magic, a	1957 Apr p 54–61
nydration, physical and chemical properties 1956 Ap	гр 76-89	psychoactive drugs lessons from primitive medic	ane
hydrogen ions, pH, galvanic cell, glass electrode, acidity	40 43		1948 Sent n 24 27
hydrogenation, coal, chemical raw material fossil fuel, coking.	n p 40–43 'water eas'	hypnotics, barbiturates, tranquilizers, sedatives, anest	hesia, pharmacology
process 1955 Int	lv n 58–67	hypodermic medication, drug addiction, medical history	1958 Jan p 60–64
hydrologic cycle, Earth glaciation, Antarctic glacier, climate se		mechanisms of morphine addiction	1971 Inn - 06 102
sea-floor spreading, volcanoes, rain sea water composition,	84-92 [809]	in pointmon, ilmnology, bond life, dissolved oxygen.	nlant ton
geochemical cycle, salinity, carbonate, why the sea is salt		thermocline, oxidation-reduction balance in dept	
1970 No. p. 104	4-115 [839]	hypothalamic hormone, hormone, luteinizing hormone	1951 Oct. p 68–72
atmosphere Earth crust, geochemical cycle, lithospheric cycl	le 72 70 (4) 43	ractors, pituitary control thyroid-stimulating hor	mone TSH
hydrology, atmospheric circulation ground water, water cycle,	12-17 [414]	1077 1	
aerological accelerator 1072 A	46-61 [907]	hypothalamus, brain, learning, neurophysiology, neuro pleasure centers electrode stimulation of pleasure	
mountain formation erosson reasons, cratering, tectonic pro-	cesses	1056	O-4 - 400
1975 Sept	р 106–117	fever, leukocyte thermoregulation, homeostasis eti	ology of fever
			1957 June p 62-68
			-

homeostasis, thermoregulation, human physiology, human body thermostat lacrimal gland, tears, nerve impulse, reflex, psychogenic and continuous tears lightharpoological psychology, sex differences, testosterone, physiological psychology, sex hormones, pituitary hormones, sex differences in rabrain, effect of testosterone lightharpoological psychology, sex hormones, pituitary hormones, sex differences in rabrain, effect of testosterone lightharpoological psychology, sex hormones, pituitary hormones, sex differences in rabrain, effect of testosterone lightharpoological psychological psychologic	ideographs, hieroglyphs, writing, pictograph, Mesopotamia origin of writing in clay tokens 1978 June p 50-59 [708] igloo, building construction, architecture, primitive architecture, climate teepee, yurt, tent, sod hut, adobe house, hogan, stilt house 1 G.Y.: International Geophysical Year I G.Y., Atka, oceanography, icebreaker, Antarctica, introduction to a single-topic issue on the planet Earth 2] Antarctica, history of exploration, Antarctic Treaty, introduction to a single-topic issue on Antarctica 3] set for 1957 1954 Apr p 45 4 underway in 1955 China joins 4 worldwide communications network 1957 June p 72 to be continued 1958 Sept p 86 3 Ikhnaton's temple, computer restoration illusion of movement, visual perception, optical illusion, apparent movement, motion perception movement, motion perception 1964 Oct p 98-106 [487] illusions, auditory illusions, hearing, perception, phonetics, speech perception, psychology, illusions as clues to organization of perceptual apparatus 1970 Dec p 30-33 [531]
I	auditory perception, brain hemispheres, cerebral dominance musical illusions, handedness, hearing perception, two-tone illusion
IC, offspring of interracial unions Icarus, asteroids, meteorites, orbital motion ICBM: intercontinental ballistic missile ICBM, radar blackout, atomic warfare, arms race, counterforce strategy, ABM, US ABM system capabilities and limitations	ilmenite, titanium, metallurgy, properties and applications of titanium 1949 Apr p 48-51 [258] zirconium, fission reactor, jet engines image amplification, by laser image detection, vision, retina, photographic emulsion, vidicon television
ABM, MIRV, SALT, deterrence, arms race, counterforce strategy, dynamics, instability of arms race 1969 Apr p 15-25 [642] ABM, arms race, MIRV, SLBM, mutual assured destruction, counterforce strategy, strategic balance, national security 1969 Aug p 17-29 [330]	camera, photochemistry, light, electronic camera 1968 Sept p 110-117 image enhancement, astronomy, electronic camera, image intensifier telescope, electronic image processing 1956 Mar p 81-90 image formation, camera, lens design, telescope, interferometry, computer graphics, light 1968 Sept p 96-108
ABM systems, arms race, MIRV, atomic weapons, SALT, atomic test ban, strategic weapons, prospects for freeze on numbers and qualitative improvement of weapons 1971 Jan p 15-25 ABM, MIRV, atomic armaments, counterforce strategy, strategic weapons, mutual assured destruction, arms race 1973 Nov p 18-27 ice, water, hydrogen-ion migration, snow crystals, hydrogen bonds, hydration, physical and chemical properties 1956 Apr p 76-89 snow, water, frost, supercooling, condensation nuclei, ice worms, how water freezes 1959 Feb p 114-122	image intensifier, astronomy, image enhancement, electronic camera telescope, electronic image processing 1956 Mar p 81-90 image processing. vision, light, visual perception, imagery, eye and brain in visual perception 1968 Sept p 204-214 [519] memory, perception, linguistic material, visual memory remembering what is seen 1970 May p 104-112 [528] image reconstruction, computer algorithms computer-assisted imaging computer graphics, medical care, tomography CAT scan 1975 Oct p 56-68 image sensing, charge coupled devices charge transfer, computer
crystallography, crystal structure, water molecules, snow crystals, migrating lattice faults in ice 1966 Dec p 118-126 [307] Ice Age, bears, cave bear, extinction mechanism 1972 Mar p 60-72 Ice Age hunters, glaciation, mammoths, Mousterian assemblages, Ukraine 1974 June p 96-105 [685] ice ages, carbon 14 abundance, climate, Maunder minimum, solar 1974 June p 96-105 [685] ice ages, carbon 14 abundance, climate, Maunder minimum, solar 1974 May p 80-92 [925] ice ages, carbon 14 abundance, climate, Maunder minimum, solar 1971 May p 80-92 [925] ice ages, carbon 14 abundance, climate, Maunder minimum, solar 1971 May p 80-92 [925] ice ages, carbon 14 abundance, climate, Maunder minimum, solar 1977 May p 80-92 [925] ice ages, carbon 14 abundance, climate, Maunder minimum, solar 1977 May p 80-92 [925] ice ages, carbon 14 abundance, climate, Maunder minimum, solar 1977 May p 80-92 [925] ice ages, carbon 14 abundance, climate, Maunder minimum, solar 1977 May p 80-92 [925] ice ages, carbon 14 abundance, climate, Maunder minimum, solar 1977 May p 80-92 [925] ice ages, carbon 14 abundance, climate, Maunder minimum, solar 1978 May p 90-103 [925] ice ages, carbon 14 abundance, climate, Maunder minimum, solar 1978 May p 90-105 [685] ice ages, carbon 14 abundance, climate, Maunder minimum, solar 1974 May p 96-105 [685] ice ages, carbon 14 abundance, climate, Maunder minimum, solar 1974 May p 96-105 [685] ice ages, carbon 14 abundance, climate, Maunder minimum, solar 1974 May p 96-105 [685] ice ages, carbon 14 abundance, climate, Maunder minimum, solar 1974 May p 96-105 [685] ice ages, carbon 14 abundance, climate, Maunder minimum, solar 1974 May p 96-105 [685] ice ages, carbon 14 abundance, climate, Maunder minimum, solar 1974 May p 96-105 [685]	image transmission, fiber optics light reflection wave guide physics of 1960 Nov p 72-81 imagery, evolution intelligence learning memory language experimental psychology learning in man and animals 1957 June p 140-150 vision light, image processing visual perception eye and brain in visual perception 1968 Sept p 204-214 [519] imagination, creativity, neurophysiology neuronal networks cirebral cortex physiology of imagination 1958 Sept p 135-146 [65] creativity, psychology psychological testing psychology of imagination 1958 Sept p 150 166 imagination 1958 Sept p 150 166 immine radical, Jupiter hydrazine radical frozen free radicals low temperature physics modelling of Jupiter 1956 June p 119 128 imitative drugs, metabolite antagonists sulfa drugs folic acid part aminobenzoic acid 1951 Apr p 60 63
ice fish, comparative physiology, oxygen, hemoglobin, blood Antarctic fish without red cells or hemoglobin 1965 Nov p 108-114 ice-floe islands, Arctic Ocean currents, weather 1954 Dec p 40-45 Arctic Ocean, ocean circulation, telemetry, meteorology, Northeast Passage, bathymetry, marine biology, Soviet Arctic research 1961 May p 88-102 ice worms, ice, snow, water, frost, supercooling, condensation nuclei, how water freezes 1956 Mar p 54 icebreg, physical constitution icebreaker, Atka, oceanography, Antarctica I G Y, introduction to a single-topic issue on the planet Earth 1955 Sept p 50-55 ichthy osaurs, reptile, dinosaurs, mammalian evolution paleontology therapsids, evolution, origin of mammals 1949 Mar p 40-43	immigration, US quota system revised immigration policy, colonization human population human migration slave trade immune reaction, allergy antigens antibodies serum sickness hypersensitivity hamster tissue grafts tolerance of grafts immune response, graft rejection skin transplants biochemistry of self immune bomb test radiation damage tonizing ridition leukemia fallout nuclear medicine radiation damage whole body irridiation 1959 Sept p 117 137 bone matro & transplantation kidnes transplant radic therap, circumventing irrimune response

antibodies, antigens, protein synthesis, immunology, mutation,	immunological privilege, fetus as transplant, histocompatability, immune
selection theory of immunity 1961 Jan p 58–67 [78]	response, reproduction, trophoblast, nidation, placenta
antigens, antibodies, hypersensitivity, phagocytosis, inflammatory	1974 Apr p 36-46 immunology, epidemiology, virology, influenza virus, public health,
response, leukocyte, allergy, thymus gland, lymphatic system, cellular immunity 1964 Feb p 58-64	structure and biochemistry of flu virus 1957 Feb p 37–43
dental research, germ free environment, surgical isolator	bacterial infection, blood proteins, gammaglobulin, antibodies, tissue
1964 July p 78–88	grafts, agammaglobulinemia, hereditary immunological deficiency
antibody production, antigen-antibody reaction, lymphocytes, RNA	1957 July p 93–104
synthesis, clonal selection theory 1964 Dec p 106–115 [199]	antibodies, antigens, protein synthesis immune response, mutation, selection theory of immunity 1961 Jan p 58–67 [78]
Aschoff bodies, rheumatic fever, streptococcus, infection, heart disease, hypersensitivity 1965 Dec p 66-74	antibody production, thymus, lymphocytes, DNA, autoimmune
hypersensitivity 1905 Dec p 60-74 blood groups, Rh factor, Rh incompatibility, prevention of 'Rhesus'	disease, thymus role in producing antibodies
babies 1968 Nov p 46–52 [1126]	1962 Nov p 50-57 [138]
cell membrane, organ transplant, tissue grafts, tissue-typing self-	antibodies, antigens, allergic reaction, immune response, anaphylactic shock, lymphocytes 1973 Nov p 54-66 [1283]
marker hypothesis 1972 June p 28–37 [1251] antibodies, antigen complement, lymphocytes, virus antigens, virus	shock, lymphocytes 1973 Nov p 54-66 [1283] agglutination response, cancer, cell membrane, lectins, proteins
disease, autoimmune disease, allergic reaction, immune-complex	1977 June p 108–119 [1360]
disease, glomerulonephritis, lymphocytic choriomeningitis, serum	immune response theory 1956 Nov p 66
sickness 1973 Jan p 22–31 [1263]	agammaglobulinemia, value of normally unhygienic environment
cell culture, cell differentiation, cell-surface antigens, immunoglobin,	effects of bone marrow transplant 1958 Oct p 56 1959 July p 66
lymphocytes 1973 June p 82–91 [1275] antibodies, antigens, allergic reaction, anaphylactic shock,	antigen suppressive action of hamster cheek pouch mucilage
immunology, lymphocytes 1973 Nov p 54–66 [1283]	1961 Jan p 83
fetus as transplant, histocompatability, immunological privilege,	graft tolerance by antigen injection 1963 June p 71
reproduction, trophoblast, nidation, placenta 1974 Apr p 36-46	see also immune response, hypersensitivity, allergy
carcinogenesis, cancer epidemiology, environmental carcinogens, gene	immunopotentiators, antibodies, cancer, cell-surface antigens, cancer immunology, immune response, tumor-specific antigens, leukemia,
mutation, virus disease, cancer prevention 1975 Nov p 64-78 [1330]	transplantation antigens 1977 May p 62–79 [1358]
antibodies, cell membrane, histocomptability, antigens, immunoglobin,	immunosupression, artificial heart, heart transplant, kidney transplant,
lymphocytes, B-cells, T-cells 1976 May p 30-39 [1338]	organ transplant, mechanical heart implant
antibodies, antigens, active site, lock-and key theory, immunoglobin,	impact crater, meteorites, cratering, projectile, fluid impact, effect of
Bence-Jones proteins, Fab fragments, Fc unit 1977 Jan p 50–59 [1350]	high-speed impact 1960 Oct p 128–140
antibodies, cancer, cell-surface antigens, cancer immunology,	imperial system, measurement, metric system, metrication, U K
immunopotentiators, tumor-specific antigens, leukemia.	metrication program 1970 July p 17–25 [334]
transplantation antigens 1977 May p 62–79 [1358]	implosion, high-pressure technology, magnetism, ultrastrong magnetic
antigens, cell surface antigens, graft rejection, histocompatability, H-2 antigens, HLA antigens 1977 Oct p 96-107 [1369]	fields, explosive compression, flux compression 1965 July p 64–73 imprinting, learning, developmental psychology, animal behavior, effect
antigens, HLA antigens 1977 Oct p 96–107 [1369] thymus gland 1969 Feb p 42	of early life on later learning 1958 Mar p 81–90 [416]
immune system, antibodies, thymus, lymphatic system, lymphocytes,	animal behavior, ducks, auditory interaction 1972 Aug p 24-31 [546]
thymus implant in mouse, humoral factor 1964 July p 66-77	in-patient care, hospital care, medical care, out-patient care, medical
antibody molecule, antigens, B-cells, lymphatic system, lymphocytes, T-cells 1973 July p 52–60 [1276]	technology, medical history, triage 1973 Sept p 128-137 Inca civilization, road building, pre-Columbian engineering
degenerative diseases, slow virus infection, virus disease, kuru, scrapie,	1952 July p 17–21
cancer virus, herpes virus 1974 Feb p 32-40 [1289]	climate, Peru Current, New World archeology, environmental
antibodies, bursa, cell differentiation, humoral immunity, B-cells, T-	influences on early Peruvian cultures 1965 Oct p 68–76 incandescent lamp, electric light, industral research, science history,
cells, lymphocytes, thymus 1974 Nov p 58-72 [1306] immunity, virus disease, influenza virus, bacteriophage, poliomyelitis	Edison, Thomas A Edison, biography 1959 Nov p 98–114
virus, bacteriophage, antigen-antibody reaction, infection, host-	Incaparina, malnutration, food supply, human population, hunger, human
specificity, viruses in infection and in the laboratory	nutrition, eland, capy bara, manatee, mussels, developing countries,
1951 May p 43-51 poliomyelitis, gammaglobulin, epidemiology, blood fractionation,	unorthodox food sources 1967 Feb p 27-35 [1068] incendiary device, weapons, SIPRI report 1976 Jan p 56
vaccine 1953 July p 25–29	incendiary device, weapons, SIPRI report 1976 Jan p 56 inclusion compounds, clathrates, crystallography, gas hydrates inclusion
antibodies how antibodies are made, self-marker hypothesis	compounds in biology and technology 1962 July p 82-92 [280]
1954 Nov p 74–78	income, public opinion voters' attitudes, voting behavior, correlation
germ theory, variable host, infection germ-free animals 1955 May p 31-35	analysis ethnic groups social status, family, votes in the making
immunization, influenza virus, chick-embryo culture, hemagolutination.	1950 Nov p 11-13 income maintenance, negative income tax experiment, work attitudes,
genetic variation, vaccine, difficulty in securing flu immunization	work incentives welfare reform 1972 Oct p. 19-25
1953 Apr p 27–31 cye disease, trachoma, virus disease, vaccination, epidemiology	income status, epidemiology, morbidity, mortality rates, economic
1964 Ian n 79_86	development, occupational health, 'social medicine', environment, material well-being, behavior of disease 1949 Apr. p. 11–15
immunoelectrophoresis, electrophoresis antigens, antibodies, separation	material Well-peing, behavior of disease 1949 Apr p 11-15 emotional illness mental health schizophrenia, epidemiology, family,
of proteins 1960 Mar p 130–140 [84] immunoglobin, amino-acid sequence, antibodies, antibody molecule,	psychosis 1954 Mar p 38_42 (441)
Bence-Jones proteins, heavy chain light chain, antigen antibody	incompleteness theory, algorithms mathematical proof, random numbers,
COMPLEX 1067 Oct = 91 00 (1093)	incubator birds, animal behavior eggs chicken, fowl, ornithology,
antipody molecule, mycloma, antigen binding, Rence, Iones molecule	hatching eggs in hot places 1959 Aug n 52 50
amino-acid sequence antibody amino-acid sequence determination	mue Cycle, jet stream upper atmosphere, weather, atmospheric
1970 Aug. p 34-42 [1185] cell culture, cell differentiation, cell-surface antigens immune response	circulation polar front 1952 Oct p 26-31 India, economic development industrialization population control
101000000000000000000000000000000000000	agricultural production, technology transfer food production
response, lymphocytes B-cells T-cells 1976 May 20 20 (1990)	economic planning, economic development by democratic planning
antibodies antigens active site, immine remove led	1067 C 100
theory, bence Jones Proteins, Fab fragments. Fe unit	rights rights
1977 Jan p 50-59 [1350]	1965 Dec p 13–17

hunting, herding, food gathering, tribal cultures, agricultural society, steam engine, mine drainage, technology history, Watt, pumps, aboriginal culture, 'living prehistory' in India 1967 Feb. p. 104-114 1964 Jan. p. 98-107 Newcomen engine, origins of steam engine cities, urbanization, population growth, introduction to a single-topic birth control, human population, infant mortality, family planning, 1965 Sept. p. 40-53 [659] medical care, experience in an Indian village issue on cities cities, urbanization, agricultural revolution, communication, origin and 1970 July p. 106-114 [1184] 1965 Sept. p. 54-63 'green revolution', food and agriculture, technology transfer, evolution of cities energy demand, thermal pollution, biosphere, energy trel and monsoons, irrigation, fertilizers, rice, agronomy, wheat, hybrid crop fuel cycle, carbon dioxide, industrial em: se to ne se se se 1976 Sept. p. 154-163 plants 1970 Sept. p. 174-190 [1197] India as atomic power, nuclear nonproliferation treaty, 'nuclear club', natural cycles by man coal technology, technology history, iron smelting, blast furnace, 1975 Apr. p. 18-33 atomic test ban, SALT 1974 Aug. p. 92-97 India-Eurasia collision, mountain formation, continental drift, earthquake Newcomen engine fossil fuel, coal technology, technology history, 16th c. energy crisis, zones, Gobi Desert, Himalaya formation, plate tectonics, sea-floor 1977 Nov. p. 140-151 [391] 1977 Apr. p. 30-41 wood-fuel shortage spreading, Tibetan plateau industrial society, energy cycle, U.S. economy, power, ecosystem, Indian-Ocean formation, mountain formation, continental drift, 1971 Sept. p. 134-144 [667] environmental protection Gondwanaland, Himalaya formation, magnetization patterns, plate industrial technology, oil drilling, petroleum, advances in drilling 1973 May p. 62-72 [908] tectonics, sea-floor spreading 1958 Nov. p. 99-111 indigo bunting, bird migration, bird navigation, blackpoll warbler, technicology Ettingshausen effect, Hall effect, Nernst effect, Righi-Leduc effect, celestial navigation, planetarium experiments galvanomagnetism, thermomagnetism, science history, technological 1975 Aug. p. 102-111 [1327] 1961 Dec. p. 124-136 applications of 19th c. discoveries individualized teaching, computer technology, education, teaching Industrial Revolution, lathes, development of lathe from Middle Ages 1966 Sept. p. 206-220 [533] machine, programmed instruction 1963 Apr. p. 132-142 Indo-European language, linguistics, comparative grammar, root words, economic development, industrialization, education, human-resource reconstructing genealogy of Indo-European languages development, education for economic development 1958 Oct. p. 63-74 1963 Sept. p. 140-147 induction coil, electromagnetism, electron discovery, radio discovery, X-Nigeria, economic development, technology transfer, tribal politics, 1971 May p. 80-87 ray discovery, science history economic development of former colonial region inductive proof, confirmation theory, hypothesis-testing, logic, philosophy 1963 Sept. p. 168-184 of science, probability 1973 May p. 75-83 agricultural technology, People's Republic of China, economic inductive reasoning, teaching machine, operant conditioning, rhythm, development, technology in People's Republic of China education, self-teaching by small, rigorous steps 1966 Nov. p. 37-45 1961 Nov. p. 90-102 1968 Dec. p. 17-23 economic development, U.S.S.R. industrialization, developing countries, economic development, technical Indus valley, Mohenjo-Daro, Harappan civilization, archeology, Sumer 1953 Nov. p. 42-48 1950 Mar. p. 16-19 assistance, 'point four' archeology, Harappan civilization, Mohenjo-Daro, floods as cause of economic development, demographic transition, urbanization, population control, family planning, economic development and the 1966 May p. 92-100 demise 1963 Sept. p. 62-71 [645] industral research, electric light, incandescent lamp, science history, demographic transition 1963 Sept. p. 92-108 1959 Nov. p. 98-114 Edison, Thomas A. Edison, biography economic development industrial chemistry, catalysis, polymers, materials technology, economic development, energy technology, population, fuel consumption, energy resources, energy requirements and resources 1957 Sept. p. 98-104 stereoisomers, synthesizing giant molecules catalysis, polymers, materials technology, stereoisomers, synthesizing 1963 Sept. p. 110-126 economic development, technology transfer, mineral resources, metal for economic development 1957 Nov. p. 98-104 giant molecules industrial cooling, thermal pollution, nuclear power, water pollution, consumption, natural resources and technological substitution 1963 Sept. p. 128-136 1969 Mar. p. 18-27 [1135] aquatic life, cooling towers, waste heat industrial technology, economic development, education, humancalefaction, Connecticut River, fission reactor, thermal pollution, resource development, education for economic development nuclear power, fisheries, ecology, fish crisis 1963 Sept p 140-147 1970 May p. 42-52 [1177] economic development, population control, agricultural production. cooling towers, heat exchange, energy technology, microclimate technology transfer, food production, economic planning, India, 1971 May p. 70-78 industrial emissions, energy demand, thermal pollution, Industrial economic development by democratic planning 1963 Sept p. 189-206 Revolution, biosphere, energy technology, fossil fuel cycle, carbon economic development, tropical rain forest, subsistence economy. dioxide, modification of natural cycles by man tropical rain forest, urbanization, resource management, Brazil, 1970 Sept. p. 174-190 [1197] 1963 Sept p. 208-220 industrial hygiene, noise-induced hearing loss, occupational health, noise uneven national development pollution, auditory impairment, public health, preventing noiseeconomic development, national economic policy, agricultural technology, Federal intervention in economic development of US induced hearing loss, U.S. noise pollution legislation 1963 Sept p 224-232 1966 Dec. p. 66-76 [306] industrial processes, catalysis, chemical reaction, petroleum cracking economic development, technology transfer, economic planning, market process versus planning in economic development 1971 Dec. p. 46-58 1963 Sept p 235-244 industrial reconstruction, economic development, European economy, economic development, water supply, irrigation, desalination, water trade deficit, Economic Commission for Europe, East-West trade resource management, technology and economics of water in 1948 July p. 9-15 industrial research, invention, creativity, applied science, solid state inernational cooperation, Atomic Energy Act, patent law, power. physics, Bell Laboratories solid-state physics 1958 Sept. p. 116-130 licensing, international cooperation, military secrecy, major 1954 Nov p 31-35 provisions of Atomic Energy Act of 1954 inertia, Galileo, moons of Jupiter, gravity, Galileo, biography and Industrial Revolution. Renaissance, scientific revolution, human 1949 Aug p 40-47 evolution, interaction of science and technology, 13th c. to 20th c. gravity, Galilean relativity, Einstein, frames of reference, philosophy of 1960 Sept. p. 173-190 demographics, population growth, cultural evolution, agricultural science, relativity, identity of inertia and gravity 1957 Feb p 99 109 revolution, population explosion, human evolution, historical inertial navigation, accelerometer, aircraft navigation, navigation, air perspective on human population growth, how many ever lived transport, gyroscope, commercial adaptation of military and space 1960 Sept. p. 194-204 [608] lathes, industrial technology, development of lathe from Middle Ages 1970 Mar p 19.56 infant, vision, learning, eye-hand coordination, human eye technology

1963 Apr. p. 132-142

1963 Sept. p. 52-61

economic development, technology transfer, introduction to single-

topic issue on technology and economic development

1950 Feb p 20 22 [4/1]

1990 Apr p #4 71

Visual cliff, depth perception, comparative psychology, visual

perception, geneus of depth perception

fetal lungs, hyaline membrane disease, lung, surfactant	bacterial-cell surface, glycocalyx, bacterial infection, how bacteria stick 1978 Jan p 86-95 [1379]
1973 Apr p 74–85	infinitesimals, formalism, mathematical logic, Platonism, real-number line
infant behavior, personality, child development, parental care,	1971 Aug p 92–99
temperament, interaction of temperament and environment, nature- nurture 1970 Aug p 102-109 [529]	calculus, Euclidean geometry, falling-stone problem, mathematical
nurture 1970 Aug p 102-109 [329] communication, crying, neonatal disorder, mother-child interaction,	logic, method of exhaustion, nonstandard analysis
sound spectrogram 1974 Mar p 84–90 [558]	1972 June p 78–86
infant development, binocular vision, visual perception, operant	infinity, set theory, equivalent sets, cardinal number, Cantor
conditioning, developmental psychology, information processing,	1952 Nov p 76–84
space, size, shape perception in human infants	relativity theory, space curvature, universe as finite or infinite
1966 Dec p 80–92 [502]	1976 Aug p 90-100 inflammation, cortisone, ACTH, degenerative diseases, hormone, stress,
infant experience, not so decisive 1952 Nov p 40	experience with and appraisal of two hormonal drugs
infant food, high-lysine corn infant mortality, premature infants, retrolental fibroplasia, epidemiology,	1950 Mar p 30–37 [14]
oxygen, blindness, 'blind babies' 1955 Dec p 40–44	kınıns, peptides, kallıdın, venom, bradykının, globulin, local hormones,
abortion, birth control, maternal mortality, public opinion, legal status,	production and distribution 1962 Aug p 111-118 [132]
incidence in U S and other countries 1969 Jan p 21-27 [1129]	aspirin, analgesics, fever, histamine reaction, bronchospasm,
abortion, population, marriage rate, death rate, birth rate, vital	anaphylactic shock, mode of action and hazards of most widely used
statistics, menarche, 1538-1812, parish registers, York, England	drug 1963 Nov p 96–108
1970 Jan p 105–112	inflammatory response, antigens, immune response, antibodies, hypersensitivity, phagocytosis, leukocyte, allergy, thymus gland,
birth control, human population, India, family planning, medical care, experience in an Indian village 1970 July p 106–114 [1184]	lymphatic system, cellular immunity 1964 Feb p 58–64
experience in an Indian village 1970 July p 105–114 [1184] adolescence, family, alienation, racial discrimination, divorce, poverty,	inflation, 'cost-push' inflation, 'demand-pull', economic analysis, input-
crime, suicide, drug addiction, changes in American family structure	output analysis 1971 Nov p 15–21
1974 Aug p 53-61 [561]	influenza vaccine, killed virus 1957 Mar p 68
abortion, population, birth control, public health, maternal mortality,	influenza virus, encephalitis, virus disease, animal vectors
international comparison of experience with legalization of abortion	1949 Sept p 18–21
1977 Jan p 21–27 [1348]	virus disease, bacteriophage, poliomyelitis virus, bacteriophage,
income status 1951 Nov p 36	antigen-antibody reaction, immunity, infection, host-specificity,
one-third preventable 1955 Aug p 50 world statistics 1963 Oct p 59	viruses in infection and in the laboratory 1951 May p 43-51 immunization, chick-embryo culture, hemagglutination, genetic
world statistics 1963 Oct p 59 and socioeconomic status 1972 Aug p 45	variation, vaccine, difficulty in securing flu immunization
prenatal care in U S 1973 Sept p 64	1953 Apr p 27–31
infant perceptions, child development, eye-hand coordination, object	epidemiology, immunology, virology, public health, structure and
concept, perceptual development 1971 Oct p 30–38 [539]	biochemistry of flu virus 1957 Feb p 37–43
child development, cognitive development, human behavior,	adenoviruses, virology, X-ray diffraction, poliomyelitis virus, polyoma
discrepancy principle 1972 Mar p 74–82 [542]	virus, herpes virus, vaccinia virus, tobacco mosaic virus,
behavioral regression, child development, cognitive development,	bacteriophage, structure of viruses 1963 Jan p 48–56 antigen variation, disease, medical history, encephalitis, pandemics,
human behavior, learning 1976 Nov p 38-47 [572] infant speech, language, learning, communication, meaningful	virus disease, animal vectors, Hong Kong flu, swine flu
consistencies in infant babble 1949 Sept p 22–24 [417]	1977 Dec p 88–106 [1375]
infanticide, birth control, celibacy, disease, foundling institutions,	information compression, information theory, statistics, thermodynamics,
Malthusian doctrine, marriage age, population growth, population	noise, redundancy, digital storage media, analogue storage media,
control in Europe 1750-1850 1972 Feb p 92-99 [674]	automatic control, information 1952 Sept p 132–148
infection, leukocyte, phagocytosis, antibodies, 'the first line of defense'	information flow, energy-information interaction, entropy in communication, power, information theory, thermodynamics
1951 Feb p 48-52 [51] virus disease, influenza virus, bacteriophage, poliomyelitis virus,	1971 Sept p 179–188 [670]
bacteriophage, antigen-antibody reaction, immunity, host-	information processing, memory, learning theory, reason, rational
specificity, viruses in infection and in the laboratory	association as aid to memory 1956 Aug p 42-46 [419]
1951 May p 43-51	memory, visual search, visual scanning, reading, pattern recognition
germ theory, immunity, variable host, germ-free animals	1964 June p 94-102 [486]
1955 May p 31–35	binocular vision, infant development, visual perception, operant
interferon, virology, virus interference, nucleic acid, anti-viral agent found to act against foreign nucleic acid 1963 Oct p 46-50 [166]	conditioning, developmental psychology, space, size, shape perception in human infants 1966 Dec p 80-92 [502]
Aschoff bodies, rheumatic fever, streptococcus, immune response,	bilingualism, language, communication, reading, learning
heart disease, hypersensitivity 1965 Dec p 66-74	1968 Mar p. 78–86
bacteria, proteolysis, viral DNA, DNA sequence, restriction enzymes,	information retrieval, computer
bacterial recognition and rejection of exotic DNA	microrecording, electronic
1970 Jan p 88–102 [1167] intestinal worms of pets 1966 Sept. p 104	1966 Sept p 224–242
infectious disease, antibiotics toxicity, bacterial resistance, virus disease,	learning, long-term memory, memory, short-term memory
status of new medical technology 1949 Aug n 26-35	1971 Aug p 82-90 [538] communication technology, network hierarchies, communication two-
antibiotics, penicillin, streptomycin, aureomycin, chloramphenicol, the	way channels, computer-assisted instruction. National Academy of
antibiotic revolution 1952 Apr p 49–57	Engineering study, 'Communications Technology for Urban
toxoplasmosis parasitism, intracellular parasite, encephalitis, insect	Improvement', 'wired city' concept 1977 Sept. p. 142-150
national health insurance, medical care, child health care, acute illness,	information storage, computer technology, information retrieval
chronic illness delivery of medical care 1073 Apr. p. 12.17	microrecording, electronic scanner, microfiche, library science
antibiotic resistance, bacteria, drug resistance, gene mutation	information theory, communication, thermodynamics entropy
plasmids Rh factor, bacterial conjugation	1949 July m 11 16
chronic illness, morbidity, mortality rates, medical care, vital statistics,	iniguistics evolution of language, a theory of natural selection in
life expectancy, degenerative diseases causes of death	anguage 1052 America ea
1077 5 77 04	automatic Control, Scil-regulation, automata theory, feedback
injective specificity, pollomychilis virus central com	introduction to single-topic issue on automatic control
epidemiology in ture of the disease and public health	1952 Sept p 44-47
viatus before prediction of the vaccines 1950 Aug p 22–26	

informed consent

Index to Topics

statistics, thermodynamics, noise, redundancy, digital storage media,	bacterial toxin, tetanus, botulism, paralysis, nerve impulse, synapse,
analogue storage media, information compression, automatic	motor neuron. Clostridium tetani, Clostridium botulinum
control, information 1952 Sept p 132–148	1968 Apr p 69-11
linguistics, computer translation 1956 Jan p 29–33	locust, muscle contraction, insect flight, flight control system nerve
music, order and surprise 1956 Feb p 77–86	network 1968 May p 83-90
computer music, music, redundancy, computer study of structure of	innate behavior, psychology, learning, spatial perception, perceptual
music 1959 Dec p 109–120	learning, innate vs acquired space perception 1956 July p 71-80 bird song, animal communication, learning animal behavior
computer technology, binary arithmetic, computer industry, computer	1950 Oct p 120-150 (145)
privacy, computer applications, introduction to single-topic issue on information processing 1966 Sept p 64–73	athology animal behavior evolution ritualized behavior releaser
cathode-ray tube, computer technology, computer displays, light pen,	ntimulus avalution of hehavioral nations 1230 Dec p or 101 mg
computer graphics, rand tablet, computer graphics and man-	animal behavior, Draine dogs social construction
machine interface 1966 Sept. p. 80–90	territorial behavior, learning behavior, field observation of publication of publ
energy-information interaction, entropy in communication, power,	ting communities
information flow, thermodynamics 1971 Sept p 179-188 [670]	tee the holomore 1702 out F
communication technology, cybernetics, language, machine	differentiation of Schavior
communication, communication, introduction to single-topic issue	
on communication 1972 Sept p 30-41 [077]	animal behavior, learning, parental care, feeding behavior, sea gull 1969 Dec p 98-106 [1165]
painting, sculpture, architecture, visual communication, communication, trademarks, language, visual stimulus, visual signals	
communication, trademarks, language, visual summer p 82–96 [548]	inner-tube eversion, topology, Mobius band, Klein bottle, trefoil knot
visual perception, computer graphics, 'block portraits', computer	Koenigsberg bridges, four-color-map problem, 1950 Jan p 18-24
enhancement mattern recognition, recognition of faces	problem and resources highlighter.
1973 NOV P 70-02	inorganic-materials cycle, recycling, material resources, 1970 Sept p 194-208 [1198] nonrenewable resources 1970 Sept p 194-208 [1198]
arrow of time, entropy, time reversal, hierarchy of structures,	nonrenewable resources inorganic polymers, materials technology, polymer structure, polymers inorganic polymers, materials technology, polymer structure, polymers in 1974 Mar p 66-74
macroscopic information increase	sulfur, silicon polymers
paintings 90 percent redundant	sulfur, silicon polymers input-output analysis, interindustry transactions, input-output coefficient input-output analysis, interindustry algebra, 1947 input-output table of US
limits of human verbal processing 1957 June p 76 informed consent, doctor-patient relations, medical care, medical ethics, 1974 Nov. p. 17–23	inverted coefficient, matrix algoria, 1951 Oct p 13-21
10.11 10.1 P 11.11	economy to a sample of disarmament
t and medical research 1970 FCO P 25"5"	economics, arms control, military expenditures, impact of the conomy 1961 Apr p 47-55 [611] on U S economy designing countries
The Age Avolution discission, today, continuent	i I developed Collillics, uctorping
Just malanmagnetism	complementary economic structures of the second in 148-166 [61]
infrared astronomy, spectrometry, balloon astronomy, Venus 1965 Jan p 28–37	underdeveloped countries 1963 Sept p 140 Sep
11.6. Veryes etmospheric windows, Mars, Jupiter, moon,	economics, U S economy, interindustry transactions, 1958 U S Department of Commerce input-output table
	Department of Commerce input-output table 1965 Apr p 25-35 [624]
	automatic control, economics, technology, labor force US impact of
astronomical telescope, infrared stars, 62-inch telescope at Mount 1968 Aug p 50-65	technological change, 174, 174, 194, 194, 194, 194, 194, 194, 194, 19
Wilson to decide energy levels.	to and assessment price trends, materials
Wilson microwaves, interstellar matter, maser, hydroxyl radical, energy levels, 1968 Dec p 36-44	interchangeability of materials, cost assessment, planting technology, metals, plastics, competition among materials technology, metals, plastics, competition among materials 1967 Sept. p. 254-266
protostars, interferometry 1973 Apr p 28-40	technology, filetais, plastics, 1967 Sept p 254 255
stellar evolution 1965 Oct p 42 coolest stars discovered 1972 Dec p 43	'cost-push' inflation, 'demand-pull', economic analysis inflation 1971 Nov p 15-21
coolest stars discovered 1972 Dec p 43 Edison's tasimeter sensory organs, snake,	Access transactions
infrared laser, heat sensors, infrared receptors, sensors 1973 May n 94-100 [1272]	input-output coefficient, input-output analysis, interindustry transactions inverted coefficient, matrix algebra, 1947 input-output table of US 1951 Oct p 15-21
herpetology infrared photography, air pollution, cities, climate, heat emission, heat	
infrared photography, air politution, clims, climate of cities pollution, microclimate, heat island, climate of cities 1967 Aug p 15–23 [1215]	economy incoming defense, criminal law, expert witnesses M'Naghten ruic Daniel 1074 fune p. 18-23
pollution, microclimate, heat island, climate of Aug p 15-23 [1215]	THE DIVINITIONS AS THE PARTY OF
aerial photography, natural resources, remote sensing, multiband aerial photography, natural resources 1968 Jan p 54-69	legal definition questioned
camera, remote sensing of national numbing	the stant inspections. Symmetre attraction
infrared radiation, chemical laser, laser, laser, 1966 Apr. p. 32–39 [303]	baited lure, pheromones, the same a 1964 Aug p 20-27 11-11
and locar physics of carbon dioxide	voodoo lily, Arum family carnivorous plants respiration 1966 July p 80 88
carbon dioxide, laser, nitrogen, gas laser, physics 1968 Aug p 22–33 laser 1966 Jan p 47	amaratu e psi cholog)
laser 1966 Jan p 4/	insect behavior, social insect army ant, ants, comparative psychology reproduction feedback pheromones, trophallaxis natural history 1948 June p 16-23
Jupiter as a 'star' interstellar matter, stellar formation, variable stars, lithium, youngest interstellar matter, stellar formation, variable stars, lithium, youngest 1967 Aug p 30	reproduction recubies production 1948 June p
stars?	philosophy of science, anthropomorphism insect eye, compound eye, color perception optical resolution 1948 July p 42-45
infrared receptors, heat sensors sensory organs, snaw p 94-100 [1272]	
herpetology infrared spectroscopy, chemical analysis, molecular bonds, molecular 1953 Oct p 42–48 [257]	social insect, animal communication bee dances directional 1948 Aug p 18-21 [21]
wheations are a stronomy, 62-inch	orientation 'language of the bees' 1948 Aug p 13-24 to termite, social insect, cell analogy, behavioral adaptation 1953 May p 74 78
vibrations infrared stars, astronomical telescope, infrared astronomy, 62-inch 1968 Aug p 50-65	
	insect metamorphosis, silkworm neurophysiology cocoon cocoon insect metamorphosis, silkworm neurophysiology cocoon insect metamorphosis, silkworm neurophysiology cocoon cocoon insect metamorphosis, silkworm neurophysiology cocoon insect metamorphosis insect metamorpho
inhibitory impulse, nervous system nerve impulse, nerve etchantori neuromuscular synapse, neurotransmitters, acetylcholine, dynamics neuromuscular synapse, neurotransmitters, acetylcholine, dynamics	managed of \$10 WORRE Springers
neuromuscular system	margine to host
visual perception visual systems, scallop, sure change of organization of	parasite to host Africa termite entomology, air conditioning airconditioned termite 1961 July p 135-145
of inhibition visual perception visual systems, scallop, surf clam, shadowschistor visual perceptions, invertebrate 'eyes' as models for study of organization of visual perceptions, invertebrate 'eyes' as models for study of organization of visual perceptions, invertebrate 'eyes' as models for study of organization of visual perceptions, invertebrate 'eyes' as models for study of organization of visual perceptions.	meets the first terms to the first term terms to the first terms term terms to the first term terms to the first terms term terms to the first terms to the first terms to the first ter
sensation in perception nerve conduction, synapse, reflex arc, motor neuron, membrane nerve conduction, synapse, reflex arc, motor neuron, membrane nerve excitation activity at the	bee dances social insect evolution evolutionary utilife 19/2 Aug p 74 %
nerve conduction, synapse, reflex arc, motor neuron, inclination nerve conduction, synapse, reflex arc, motor neuron, inclination activity at the potential, transmitter molecules nerve excitation activity at the 1965 Jan p 56–66 [1001]	of the bees' bioluminescence firefly insect physiology fueiferin fueiferine bioluminescence of hemistry of his fuminescence
neural synapse	chemotaxis biod emistry of bicliminascence 1972 Dec p of 89 [141]
•···	

. . .

communication, honeybee, bee dances, honeybee sound	'cold-blooded' animals, ectothermy, metabolism, heterothermy, sphinx
communication 1964 Apr p 116–124 [181]	moths, temperature regulation, Mandura sexta warm-up mechanisms
bee dances, directional orientation, species specificity, evolution,	1972 June p 70-77 [1252]
communication by sound, by dancing 1967 Apr p 96–104 [1071]	ectoparasites, flea jump, insect cuticle, flea resilin as elastomer 1973 Nov p 92-100 [1284]
fungi, fungus gardens, mutualism, insect-fungus relations 1967 Nov p 112-120 [1086]	aerodynamics, animal behavior, bird flight, clap-fling mechanism, flip
fruit fly, sexual behavior, releaser stimulus, courtship song, species	mechanism, hovering flight, lift generation
specificity 1970 July p 84–92	1975 Nov p 80–87 [1331]
ants, animal communication, ant 'guests', comensalism, parasitism,	insect-fungus relations, fungi, insect behavior, fungus gardens, mutualism
pheromones 1971 Mar p 86-93 [1213]	1967 Nov p 112–120 [1086]
animal navigation, locust, nervous system, insect flight, response to	insect herbivores, weed control, agricultural technology, leaf-eating
	beetle, Klamath weed, living herbicides 1957 July p 56-67
stimuli, schistocerca gregaria 1971 Aug. p /4-81 [1231] bee dances, pheromones, sex attractants, courtship display	insect hormones, insecticide, balsam-fir factor, insecticide resistance,
1972 Sept p 52–60 [1280]	juvenule hormone, species specificity, DDT, third-generation
ants, army ant, social insect, retrospective summary of work of T C	pesticides 1967 July p 13–17 [1078]
	insect metabolism, biological clock, circadian rhythm, diapause,
Schneirla 1972 Nov p 70-79 [550] fruit fly, gene loci, genetics of behavior, genetic mosaic, mutants	dormancy, insect behavior, photoperiodicity
1973 Dec p 24–37 [1285]	1976 Feb p 114-121 [1335]
cricket song, behavioral genetics, nervous system	insect metamorphosis, juvenile hormone, larvae, pupa, demonstration of
1974 Aug. p 34-44 [1302]	hormonal control in silkworm moth 1950 Apr p 24–28
ants, social insect, parasitism, pheromones, ant slavery	silkworm, neurophysiology, insect behavior, cocoon, cocoon record of
1975 June p 32–36 [1323]	silkworm spinning movements 1956 Apr p 131–140
Australia, behavioral adaptation, ecology, sand wasps, solitary insects,	entomology, silkworm, juvenile hormone, hormone arrests
	development 1958 Feb p 67–74
Bembix 1975 Dec p 108-115 biological clock, circadian rhythm, diapause, dormancy, insect	tissue differentiation, juvenile hormone, cellular specialization in insect
	development 1959 Feb p 100–110 [63]
metabolism, photoperiodicity 1976 Feb p 114–121 [1335]	insect physiology, tracheal system, underwater breathing, insect breathing
animal communication, behavioral adaptation, firefly,	1953 Feb p 28–32
bioluminescence, synchronous flashing of fireflies 1976 May p 74–85	bacteriology, biological pest control, agricultural pest, insecticide,
ants, bee, insect eye, animal navigation, polarized light	virology, entomology, living insecticides 1956 Aug. p 96–104
1976 July p 106–115 [1342]	bioluminescence, firefly, insect behavior, luciferin, luciferase,
beetle, burying beetles, beetle reproduction 1976 Aug p 84-89 [1344]	chemotaxis, biochemistry of bioluminescence
ants, pheromones, social insect, weaver ants	1962 Dec p 76-89 [141]
1977 Dec p 146–154 [1373]	pheromones, sexual behavior, queen substance, muskone, social
mosquito bite, yellow fever, malaria, feeding behavior, feeding behavior	behavior, ants, Gypsy moths, mice 1963 May p 100-114 [157]
of mosquitoes 1978 June p 138–148 [1392]	aerial plankton, animal migration, species dispersion, agricultural pest,
animal communication, signal dance of the blowfly 1957 May p 72	entomology, wind-borne dispersal of species 1963 Dec p 132–138
insects as 'morticians' 1966 Jan p 51	juvenile hormone, balsam fir factor 1965 Oct p 39
ants, pheromone, raiger ants	insect repellants, alkaloids, butterfly, larvae, symbiosis, behavioral
ants, pheromone, raider ants 1971 July p 45 animal communication, cricket song, mole cricket 1972 Feb p 44	insect repellants, alkaloids, butterfly, larvae, symbiosis, behavioral adaptation, plant evolution, mimicry, butterfly-plant association
animal communication, cricket song, mole cricket 1972 Feb p 44	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104–113 [1076]
	adaptation, plant evolution, mimicry, butterfly-plant association
animal communication, cricket song, mole cricket 1972 Feb p 44 insect census, ants, amber, insect evolution, insects in 'more than royal	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104-113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151-162
animal communication, cricket song, mole cricket 1972 Feb p 44 insect census, ants, amber, insect evolution, insects in 'more than royal tomb' 1951 Nov p 56-61 [838] insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology 1958 Apr p 97-106	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104-113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151-162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious
animal communication, cricket song, mole cricket 1972 Feb p 44 insect census, ants, amber, insect evolution, insects in 'more than royal tomb' 1951 Nov p 56-61 [838] insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology 1958 Apr p 97-106 insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104–113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151–162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86–92
animal communication, cricket song, mole cricket 1972 Feb p 44 insect census, ants, amber, insect evolution, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology 1958 Apr p 97–106 insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal induction, gene regulation 1964 Apr p 50–58 [180]	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104-113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151-162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86-92 insect venom, Chaga's disease, assassin bugs, predator-prey relationship,
animal communication, cricket song, mole cricket 1972 Feb p 44 insect census, ants, amber, insect evolution, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology 1958 Apr p 97–106 insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal induction, gene regulation 1964 Apr p 50–58 [180] insect control, sterile male screw-worm flies 1952 Jan. p 42	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104-113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151-162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86-92 insect venom, Chaga's disease, assassin bugs, predator-prey relationship, entomology, natural history 1960 June p 72-78
animal communication, cricket song, mole cricket 1972 Feb p 44 insect census, ants, amber, insect evolution, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology 1958 Apr p 97–106 insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal induction, gene regulation 1964 Apr p 50–58 [180] insect control, sterile male screw-worm flies 1952 Jan. p 42 housefly bait 1965 July p 48	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104-113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151-162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86-92 insect venom, Chaga's disease, assassin bugs, predator-prey relationship, entomology, natural history 1960 June p 72-78 insecticide, fertilizers, herbicide, agricultural technology, chemical
animal communication, cricket song, mole cricket 1972 Feb p 44 insect census, ants, amber, insect evolution, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology 1958 Apr p 97–106 insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal induction, gene regulation 1964 Apr p 50–58 [180] insect control, sterile male screw-worm flies 1952 Jan. p 42 housefly bait 1965 July p 48 insect cuticle, ectoparasites, flea jump, insect flight, flea resilin as	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104–113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151–162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86–92 insect venom, Chaga's disease, assassin bugs, predator-prey relationship, entomology, natural history 1960 June p 72–78 insecticide, fertilizers, herbicide, agricultural technology, chemical agriculture 1952 Aug. p 15–19
animal communication, cricket song, mole cricket 1972 Feb p 44 insect census, ants, amber, insect evolution, insects in 'more than royal tomb' 1951 Nov p 56-61 [838] insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology 1958 Apr p 97-106 insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal induction, gene regulation 1964 Apr p 50-58 [180] insect control, sterile male screw-worm flies 1952 Jan. p 42 housefly bait 1965 July p 48 insect cuticle, ectoparasites, flea jump, insect flight, flea resilin as elastomer 1973 Nov p 92-100 [1284]	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104-113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151-162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86-92 insect venom, Chaga's disease, assassin bugs, predator-prey relationship, entomology, natural history 1960 June p 72-78 insecticide, fertulizers, herbicide, agricultural technology, chemical agriculture 1952 Aug. p 15-19 alfalfa caterpillar, ecology, life cycle, agricultural pest, wilt disease,
animal communication, cricket song, mole cricket 1972 Feb p 44 insect census, ants, amber, insect evolution, insects in 'more than royal tomb' 1951 Nov p 56-61 [838] insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology 1958 Apr p 97-106 insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal induction, gene regulation 1964 Apr p 50-58 [180] insect control, sterile male screw-worm flies 1952 Jan. p 42 housefly bait 1965 July p 48 insect cuticle, ectoparasites, flea jump, insect flight, flea resilin as elastomer 1973 Nov p 92-100 [1284] insect diapause, entomology, photoperiodicity, Lepidoptera, hibernation	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104-113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151-162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86-92 insect venom, Chaga's disease, assassin bugs, predator-prey relationship, entomology, natural history 1960 June p 72-78 insecticide, fertilizers, herbicide, agricultural technology, chemical agriculture 1952 Aug. p 15-19 alfalfa caterpillar, ecology, life cycle, agricultural pest, wilt disease, predation 1954 June p 38-42
animal communication, cricket song, mole cricket insect census, ants, amber, insect evolution, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology 1958 Apr p 97–106 insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal induction, gene regulation 1964 Apr p 50–58 [180] insect control, sterile male screw-worm flies 1952 Jan. p 42 housefly bait 1965 July p 48 insect cuticle, ectoparasites, flea jump, insect flight, flea resilin as elastomer 1973 Nov p 92–100 [1284] insect diapause, entomology, photoperiodicity, Lepidoptera, hibernation governed by photoperiodicity 1960 Feb p 108–118	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104-113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151-162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86-92 insect venom, Chaga's disease, assassin bugs, predator-prey relationship, entomology, natural history 1960 June p 72-78 insecticide, fertilizers, herbicide, agricultural technology, chemical agriculture 1952 Aug. p 15-19 alfalfa caterpillar, ecology, life cycle, agricultural pest, wilt disease, predation 1954 June p 38-42 bacteriology, biological pest control, agricultural pest, insect
animal communication, cricket song, mole cricket 1972 Feb p 44 insect census, ants, amber, insect evolution, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology 1958 Apr p 97–106 insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal induction, gene regulation 1964 Apr p 50–58 [180] insect control, sterile male screw-worm flies 1952 Jan. p 42 housefly bait 1965 July p 48 insect cuticle, ectoparasites, flea jump, insect flight, flea resilin as elastomer 1973 Nov p 92–100 [1284] insect diapause, entomology, photoperiodicity, Lepidopiera, lubernation governed by photoperiodicity 1960 Feb p 108–118 insect eggshell, aquatic insect, respiration, adaptation, entomology,	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104-113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151-162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86-92 insect venom, Chaga's disease, assassin bugs, predator-prey relationship, entomology, natural history 1960 June p 72-78 insecticide, fertilizers, herbicide, agricultural technology, chemical agriculture 1952 Aug. p 15-19 alfalfa caterpillar, ecology, life cycle, agricultural pest, wilt disease, predation 1954 June p 38-42 bacteriology, biological pest control, agricultural pest, insect physiology, virology, entomology, living insecticides
animal communication, cricket song, mole cricket 1972 Feb p 44 insect census, ants, amber, insect evolution, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology 1958 Apr p 97–106 insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal induction, gene regulation 1964 Apr p 50–58 [180] insect control, sterile male screw-worm flies 1952 Jan. p 42 housefly bait 1965 July p 48 insect cuticle, ectoparasites, flea jump, insect flight, flea resilin as elastomer 1973 Nov p 92–100 [1284] insect diapause, entomology, photoperiodicity, Lepidoptera, hibernation governed by photoperiodicity 1960 Feb p 108–118 insect eggshell, aquatic insect, respiration, adaptation, entomology, selective permeability of insect 1970 Aug p 84–91 [1187]	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104-113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151-162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86-92 insect venom, Chaga's disease, assassin bugs, predator-prey relationship, entomology, natural history 1960 June p 72-78 insecticide, fertilizers, herbicide, agricultural technology, chemical agriculture 1952 Aug. p 15-19 alfalfa caterpillar, ecology, life cycle, agricultural pest, wilt disease, predation 1954 June p 38-42 bacteriology, biological pest control, agricultural pest, insect physiology, virology, entomology, living insecticides 1956 Aug. p 96-104
animal communication, cricket song, mole cricket 1972 Feb p 44 insect census, ants, amber, insect evolution, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology 1958 Apr p 97–106 insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal induction, gene regulation 1964 Apr p 50–58 [180] insect control, sterile male screw-worm flies 1952 Jan. p 42 housefly bait 1965 July p 48 insect cuticle, ectoparasites, flea jump, insect flight, flea resilin as elastomer 1973 Nov p 92–100 [1284] insect diapause, entomology, photoperiodicity, Lepidoptera, hibernation governed by photoperiodicity 1960 Feb p 108–118 insect eggshell, aquatic insect, respiration, adaptation, entomology, selective permeability of insect 1970 Aug p 84–91 [1187] insect evolution, ants, amber, insect census, insects in 'more than royal	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104-113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151-162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86-92 insect venom, Chaga's disease, assassin bugs, predator-prey relationship, entomology, natural history 1960 June p 72-78 insecticide, fertilizers, herbicide, agricultural technology, chemical agriculture 1952 Aug. p 15-19 alfalfa caterpillar, ecology, life cycle, agricultural pest, wilt disease, predation 1954 June p 38-42 bacteriology, biological pest control, agricultural pest, insect physiology, virology, entomology, living insecticides 1956 Aug. p 96-104 agricultural pest, fire ants, dieldrin, pest control
animal communication, cricket song, mole cricket 1972 Feb p 44 insect census, ants, amber, insect evolution, insects in 'more than royal tomb' 1951 Nov p 56-61 [838] insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology 1958 Apr p 97-106 insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal induction, gene regulation 1964 Apr p 50-58 [180] insect control, sterile male screw-worm flies 1952 Jan. p 42 housefly bait 1965 July p 48 insect cuticle, ectoparasites, flea jump, insect flight, flea resilin as elastomer 1973 Nov p 92-100 [1284] insect diapause, entomology, photoperiodicity, Lepidoptera, hibernation governed by photoperiodicity 1960 Feb p 108-118 insect eggshell, aquatic insect, respiration, adaptation, entomology, selective permeability of insect 1970 Aug p 84-91 [1187] insect evolution, ants, amber, insect census, insects in 'more than royal tomb' 1951 Nov p 56-61 [838]	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104–113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151–162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86–92 insect venom, Chaga's disease, assassin bugs, predator-prey relationship, entomology, natural history 1960 June p 72–78 insecticide, fertilizers, herbicide, agricultural technology, chemical agriculture 1952 Aug. p 15–19 alfalfa caterpillar, ecology, life cycle, agricultural pest, wilt disease, predation 1954 June p 38–42 bacteriology, biological pest control, agricultural pest, insect physiology, virology, entomology, living insecticides 1956 Aug. p 96–104 agricultural pest, fire ants, dieldrin, pest control 1958 Mar p 36–41 insect attractant, synthetic attractants, chemotaxis, odor-batted lure.
animal communication, cricket song, mole cricket 1972 Feb p 44 insect census, ants, amber, insect evolution, insects in 'more than royal tomb' 1951 Nov p 56-61 [838] insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology 1958 Apr p 97-106 insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal induction, gene regulation 1964 Apr p 50-58 [180] insect control, sterile male screw-worm flies 1952 Jan. p 42 housefly bait 1965 July p 48 insect cuticle, ectoparasites, flea jump, insect flight, flea resilin as elastomer 1973 Nov p 92-100 [1284] insect diapause, entomology, photoperiodicity, Lepidoptera, hibernation governed by photoperiodicity 1960 Feb p 108-118 insect eggshell, aquatic insect, respiration, adaptation, entomology, selective permeability of insect 1970 Aug p 84-91 [1187] insect evolution, ants, amber, insect census, insects in 'more than royal tomb' 1951 Nov p 56-61 [838] predatory wasps, solitary wasps, species specificity, predator-prey	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104–113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151–162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86–92 insect venom, Chaga's disease, assassin bugs, predator-prey relationship, entomology, natural history 1960 June p 72–78 insecticide, fertilizers, herbicide, agricultural technology, chemical agriculture 1952 Aug. p 15–19 alfalfa caterpillar, ecology, life cycle, agricultural pest, wilt disease, predation 1954 June p 38–42 bacteriology, biological pest control, agricultural pest, insect physiology, virology, entomology, living insecticides 1956 Aug. p 96–104 agricultural pest, fire ants, dieldrin, pest control 1958 Mar p 36–41 insect attractant, synthetic attractants, chemotaxis, odor-baited lure, pheromones, third-generation insecticides 1964 Aug. p 20–27 [189]
animal communication, cricket song, mole cricket 1972 Feb p 44 insect census, ants, amber, insect evolution, insects in 'more than royal tomb' 1951 Nov p 56-61 [838] insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology 1958 Apr p 97-106 insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal induction, gene regulation 1964 Apr p 50-58 [180] insect control, sterile male screw-worm flies 1952 Jan. p 42 housefly bait 1965 July p 48 insect cuticle, ectoparasites, flea jump, insect flight, flea resilin as elastomer 1973 Nov p 92-100 [1284] insect diapause, entomology, photoperiodicity, Lepidoptera, hibernation governed by photoperiodicity 1960 Feb p 108-118 insect eggshell, aquatic insect, respiration, adaptation, entomology, selective permeability of insect 1970 Aug p 84-91 [1187] insect evolution, ants, amber, insect census, insects in 'more than royal tomb' 1951 Nov p 56-61 [838]	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104–113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite-induced changes in plants 1959 Nov p 151–162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86–92 insect venom, Chaga's disease, assassin bugs, predator-prey relationship, entomology, natural history 1960 June p 72–78 insecticide, fertilizers, herbicide, agricultural technology, chemical agriculture 1952 Aug. p 15–19 alfalfa caterpillar, ecology, life cycle, agricultural pest, wilt disease, predation 1954 June p 38–42 bacteriology, biological pest control, agricultural pest, insect physiology, virology, entomology, living insecticides 1956 Aug. p 96–104 agricultural pest, fire ants, dieldrin, pest control 1958 Mar p 36–41 insect attractant, synthetic attractants, chemotaxis, odor-baited lure, pheromones, third-generation insecticides 1964 Aug. p 20–27 [189] DDT residues, fallout, ecological cycles, food chain, ecological
animal communication, cricket song, mole cricket 1972 Feb p 44 insect census, ants, amber, insect evolution, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology 1958 Apr p 97–106 insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal induction, gene regulation 1964 Apr p 50–58 [180] insect control, sterile male screw-worm flies 1952 Jan. p 42 housefly bait 1965 July p 48 insect cuticle, ectoparasites, flea jump, insect flight, flea resilin as elastomer 1973 Nov p 92–100 [1284] insect diapause, entomology, photoperiodicity, Lepidoptera, hibernation governed by photoperiodicity 1960 Feb p 108–118 insect eggshell, aquatic insect, respiration, adaptation, entomology, selective permeability of insect 1970 Aug p 84–91 [1187] insect evolution, ants, amber, insect census, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] predatory wasps, solitary wasps, species specificity, predator-prey relationship, parasitism, behavioral clues to evolution 1963 Apr p 144–154 ants from wasps	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104-113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151-162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86-92 insect venom, Chaga's disease, assassin bugs, predator-prey relationship, entomology, natural history 1960 June p 72-78 insecticide, fertilizers, herbicide, agricultural technology, chemical agriculture 1952 Aug. p 15-19 alfalfa caterpillar, ecology, life cycle, agricultural pest, wilt disease, predation 1954 June p 38-42 bacteriology, biological pest control, agricultural pest, insect physiology, virology, entomology, living insecticides 1956 Aug. p 96-104 agricultural pest, fire ants, dieldrin, pest control 1958 Mar p 36-41 insect attractant, synthetic attractants, chemotaxis, odor-baited lure, pheromones, third-generation insecticides 1964 Aug. p 20-27 [189] DDT residues, fallout, ecological cycles, food chain, ecological redistribution of pollutants 1967 Mar p 24-31 [1066] balsam fir factor, insect hormones, insecticide resistance, juvenile
animal communication, cricket song, mole cricket insect census, ants, amber, insect evolution, insects in 'more than royal tomb' insect chemical senses, comparative physiology insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal induction, gene regulation insect control, sterile male screw-worm flies housefly bait insect cuticle, ectoparasites, flea jump, insect flight, flea resilin as elastomer insect diapause, entomology, photoperiodicity, Lepidoptera, hibernation governed by photoperiodicity selective permeability of insect 1970 Aug p 84–91 [1187] insect evolution, ants, amber, insect census, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] predatory wasps, solitary wasps, species specificity, predator-prey relationship, parasitism, behavioral clues to evolution 1963 Apr p 144–154 ants from wasps 1967 Oct p 60 insect eye, compound eye, color perception, optical resolution, insect	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104-113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151-162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86-92 insect venom, Chaga's disease, assassin bugs, predator-prey relationship, entomology, natural history 1960 June p 72-78 insecticide, fertilizers, herbicide, agricultural technology, chemical agriculture 1952 Aug. p 15-19 alfalfa caterpillar, ecology, life cycle, agricultural pest, wilt disease, predation 1954 June p 38-42 bacteriology, biological pest control, agricultural pest, insect physiology, virology, entomology, living insecticides 1956 Aug. p 96-104 agricultural pest, fire ants, dieldrin, pest control 1958 Mar p 36-41 insect attractant, synthetic attractants, chemotaxis, odor-baited lure, pheromones, third-generation insecticides 1964 Aug. p 20-27 [189] DDT residues, fallout, ecological cycles, food chain, ecological redistribution of pollutants 1967 Mar p 24-31 [1066] balsam fir factor, insect hormones, insecticide resistance, juvenile
animal communication, cricket song, mole cricket 1972 Feb p 44 insect census, ants, amber, insect evolution, insects in 'more than royal tomb' 1951 Nov p 56-61 [838] insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology 1958 Apr p 97-106 insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal induction, gene regulation 1964 Apr p 50-58 [180] insect control, sterile male screw-worm flies 1952 Jan. p 42 housefly bait 1965 July p 48 insect cuticle, ectoparasites, flea jump, insect flight, flea resilin as elastomer 1973 Nov p 92-100 [1284] insect diapause, entomology, photoperiodicity, Lepidoptera, hibernation governed by photoperiodicity 1960 Feb p 108-118 insect eggshell, aquatic insect, respiration, adaptation, entomology, selective permeability of insect 1970 Aug p 84-91 [1187] insect evolution, ants, amber, insect census, insects in 'more than royal tomb' 1951 Nov p 56-61 [838] predatory wasps, solitary wasps, species specificity, predator-prey relationship, parasitism, behavioral clues to evolution 1963 Apr p 144-154 ants from wasps 1967 Oct p 60 insect eye, compound eye, color perception, optical resolution, insect behavior 1948 July p 42-45	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104–113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants induced changes in plants 1959 Nov p 151–162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86–92 insect venom, Chaga's disease, assassin bugs, predator-prey relationship, entomology, natural history 1960 June p 72–78 insecticide, fertilizers, herbicide, agricultural technology, chemical agriculture 1952 Aug. p 15–19 alfalfa caterpillar, ecology, life cycle, agricultural pest, wilt disease, predation 1954 June p 38–42 bacteriology, biological pest control, agricultural pest, insect physiology, virology, entomology, living insecticides 1956 Aug. p 96–104 agricultural pest, fire ants, dieldrin, pest control insect attractant, synthetic attractants, chemotaxis, odor-baited lure, pheromones, third-generation insecticides 1964 Aug. p 20–27 [189] DDT residues, fallout, ecological cycles, food chain, ecological redistribution of pollutants 1967 Mar p 24–31 [1066] balsam fir factor, insect hormones, insecticide resistance, juvenile hormone, species specificity, DDT, third-generation pesticides
animal communication, cricket song, mole cricket 1972 Feb p 44 insect census, ants, amber, insect evolution, insects in 'more than royal tomb' 1951 Nov p 56-61 [838] insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology 1958 Apr p 97-106 insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal induction, gene regulation 1964 Apr p 50-58 [180] insect control, sterile male screw-worm flies 1952 Jan. p 42 housefly bait 1965 July p 48 insect cuticle, ectoparasites, flea jump, insect flight, flea resilin as elastomer 1973 Nov p 92-100 [1284] insect diapause, entomology, photoperiodicity, Lepidoptera, hibernation governed by photoperiodicity 1960 Feb p 108-118 insect eggshell, aquatic insect, respiration, adaptation, entomology, selective permeability of insect 1970 Aug p 84-91 [1187] insect evolution, ants, amber, insect census, insects in 'more than royal tomb' 1951 Nov p 56-61 [838] predatory wasps, solitary wasps, species specificity, predator-prey relationship, parasitism, behavioral clues to evolution 1963 Apr p 144-154 ants from wasps 1967 Oct p 60 insect eye, compound eye, color perception, optical resolution, insect behavior 1948 July p 42-45 fruit fly, gene mutation, paper chromatography, fractionating the fruit	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104–113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151–162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86–92 insect venom, Chaga's disease, assassin bugs, predator-prey relationship, entomology, natural history 1960 June p 72–78 insecticide, fertilizers, herbicide, agricultural technology, chemical agriculture 1952 Aug. p 15–19 alfalfa caterpillar, ecology, life cycle, agricultural pest, wilt disease, predation 1954 June p 38–42 bacteriology, biological pest control, agricultural pest, insect physiology, virology, entomology, living insecticides 1956 Aug. p 96–104 agricultural pest, fire ants, dieldrin, pest control 1958 Mar p 36–41 insect attractant, synthetic attractants, chemotaxis, odor-baited lure, pheromones, third-generation insecticides 1964 Aug. p 20–27 [189] DDT residues, fallout, ecological cycles, food chain, ecological redistribution of pollutants 1967 Mar p 24–31 [1066] balsam fir factor, insect hormones, insecticide resistance, juvenile hormone, species specificity, DDT, third-generation pesticides 1967 July p 13–17 [1078] calcium metabolism, eggshell thinning, pollution, chormated
animal communication, cricket song, mole cricket insect census, ants, amber, insect evolution, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology 1958 Apr p 97–106 insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal induction, gene regulation 1964 Apr p 50–58 [180] insect control, sterile male screw-worm flies housefly bait 1965 July p 48 insect cuticle, ectoparasites, flea jump, insect flight, flea resilin as elastomer 1973 Nov p 92–100 [1284] insect diapause, entomology, photoperiodicity, Lepidoptera, hibernation governed by photoperiodicity 1960 Feb p 108–118 insect eggshell, aquatic insect, respiration, adaptation, entomology, selective permeability of insect 1970 Aug p 84–91 [1187] insect evolution, ants, amber, insect census, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] predatory wasps, solitary wasps, species specificity, predator-prey relationship, parasitism, behavioral clues to evolution 1963 Apr p 144–154 ants from wasps 1967 Oct p 60 insect eye, compound eye, color perception, optical resolution, insect behavior 1948 July p 42–45 fruit fly, gene mutation, paper chromatography, fractionating the fruit fly	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104-113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151-162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86-92 insect venom, Chaga's disease, assassin bugs, predator-prey relationship, entomology, natural history 1960 June p 72-78 insecticide, fertilizers, herbicide, agricultural technology, chemical agriculture 1952 Aug. p 15-19 alfalfa caterpillar, ecology, life cycle, agricultural pest, wilt disease, predation 1954 June p 38-42 bacteriology, biological pest control, agricultural pest, insect physiology, virology, entomology, living insecticides 1956 Aug. p 96-104 agricultural pest, fire ants, dieldrin, pest control 1958 Mar p 36-41 insect attractant, synthetic attractants, chemotaxis, odor-baited lure, pheromones, third-generation insecticides 1964 Aug. p 20-27 [189] DDT residues, fallout, ecological cycles, food chain, ecological redistribution of pollutants 1967 Mar p 24-31 [1066] balsam fir factor, insect hormones, insecticide resistance, juvenile hormone, species specificity, DDT, third-generation pesticides 1967 July p 13-17 [1078] calcium metabolism, eggshell thinning, pollution, chorinated hydrocarbons, DDT, dieldrin, avian reproduction, food chain,
animal communication, cricket song, mole cricket insect census, ants, amber, insect evolution, insects in 'more than royal tomb' insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal induction, gene regulation insect control, sterile male screw-worm flies housefly bait insect cuticle, ectoparasites, flea jump, insect flight, flea resilin as elastomer insect diapause, entomology, photoperiodicity, Lepidoptera, hibernation governed by photoperiodicity insect diapause, entomology, photoperiodicity, Lepidoptera, hibernation governed by photoperiodicity insect eggshell, aquatic insect, respiration, adaptation, entomology, selective permeability of insect insect evolution, ants, amber, insect census, insects in 'more than royal tomb' predatory wasps, solitary wasps, species specificity, predator-prey relationship, parasitism, behavioral clues to evolution 1963 Apr p 144–154 ants from wasps 1967 Oct p 60 insect eye, compound eye, color perception, optical resolution, insect behavior 1948 July p 42–45 fruit fly, gene mutation, paper chromatography, fractionating the fruit fly insect behavior, ants bee, animal navigation, polarized light	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104-113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151-162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86-92 insect venom, Chaga's disease, assassin bugs, predator-prey relationship, entomology, natural history 1960 June p 72-78 insecticide, fertilizers, herbicide, agricultural technology, chemical agriculture 1952 Aug. p 15-19 alfalfa caterpillar, ecology, life cycle, agricultural pest, wilt disease, predation 1954 June p 38-42 bacteriology, biological pest control, agricultural pest, insect physiology, virology, entomology, living insecticides 1956 Aug. p 96-104 agricultural pest, fire ants, dieldrin, pest control agricultural pest, fire ants, dieldrin, pest control pheromones, third-generation insecticides 1958 Mar p 36-41 insect attractant, synthetic attractants, chemotaxis, odor-baited lure, pheromones, third-generation insecticides 1964 Aug. p 20-27 [189] DDT residues, fallout, ecological cycles, food chain, ecological redistribution of pollutants 1967 Mar p 24-31 [1066] balsam fir factor, insect hormones, insecticide resistance, juvenile hormone, species specificity, DDT, third-generation pesticides 1967 July p 13-17 [1078] calcium metabolism, eggshell thinning, pollution, chorinated hydrocarbons, DDT, dieldrin, avian reproduction, food chain, ecological effect of pesticides 1970 Apr p 72-78 [1174]
animal communication, cricket song, mole cricket insect census, ants, amber, insect evolution, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology 1958 Apr p 97–106 insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal induction, gene regulation 1964 Apr p 50–58 [180] insect control, sterile male screw-worm flies housefly bait 1965 July p 48 insect cuticle, ectoparasites, flea jump, insect flight, flea resilin as elastomer 1973 Nov p 92–100 [1284] insect diapause, entomology, photoperiodicity, Lepidoptera, hibernation governed by photopenodicity 1960 Feb p 108–118 insect eggshell, aquatic insect, respiration, adaptation, entomology, selective permeability of insect 1970 Aug p 84–91 [1187] insect evolution, ants, amber, insect census, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] predatory wasps, solitary wasps, species specificity, predator-prey relationship, parasitism, behavioral clues to evolution 1963 Apr p 144–154 ants from wasps 1967 Oct p 60 insect eye, compound eye, color perception, optical resolution, insect behavior 1948 July p 42–45 fruit fly, gene mutation, paper chromatography, fractionating the fruit fly insect behavior, ants bee, animal navigation, polarized light 1976 July p 106–115 [1342] compound eye, eye, omimatidia	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104-113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151-162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86-92 insect venom, Chaga's disease, assassin bugs, predator-prey relationship, entomology, natural history 1960 June p 72-78 insecticide, fertilizers, herbicide, agricultural technology, chemical agriculture 1952 Aug. p 15-19 alfalfa caterpillar, ecology, life cycle, agricultural pest, wilt disease, predation 1954 June p 38-42 bacteriology, biological pest control, agricultural pest, insect physiology, virology, entomology, living insecticides 1956 Aug. p 96-104 agricultural pest, fire ants, dieldrin, pest control 1958 Mar p 36-41 insect attractant, synthetic attractants, chemotaxis, odor-baited lure, pheromones, third-generation insecticides 1964 Aug. p 20-27 [189] DDT residues, fallout, ecological cycles, food chain, ecological redistribution of pollutants 1967 Mar p 24-31 [1066] balsam fir factor, insect hormones, insecticide resistance, juvenile hormone, species specificity, DDT, third-generation pesticides 1967 July p 13-17 [1078] calcium metabolism, eggshell thinning, pollution, chorinated hydrocarbons, DDT, dieldrin, avian reproduction, food chain, ecological effect of pesticides 1970 Apr p 72-78 [1174] tree growth
animal communication, cricket song, mole cricket insect census, ants, amber, insect evolution, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology 1958 Apr p 97–106 insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal induction, gene regulation 1964 Apr p 50–58 [180] insect control, sterile male screw-worm flies housefly bait 1965 July p 48 insect cuticle, ectoparasites, flea jump, insect flight, flea resilin as elastomer 1973 Nov p 92–100 [1284] insect diapause, entomology, photoperiodicity, Lepidoptera, hibernation governed by photopenodicity 1960 Feb p 108–118 insect eggshell, aquatic insect, respiration, adaptation, entomology, selective permeability of insect 1970 Aug p 84–91 [1187] insect evolution, ants, amber, insect census, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] predatory wasps, solitary wasps, species specificity, predator-prey relationship, parasitism, behavioral clues to evolution 1963 Apr p 144–154 ants from wasps 1967 Oct p 60 insect eye, compound eye, color perception, optical resolution, insect behavior 1948 July p 42–45 fruit fly, gene mutation, paper chromatography, fractionating the fruit fly insect behavior, ants bee, animal navigation, polarized light 1976 July p 106–115 [1342] compound eye, eye, omimatidia	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104-113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151-162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86-92 insect venom, Chaga's disease, assassin bugs, predator-prey relationship, entomology, natural history 1960 June p 72-78 insecticide, fertilizers, herbicide, agricultural technology, chemical agriculture 1952 Aug. p 15-19 alfalfa caterpillar, ecology, life cycle, agricultural pest, wilt disease, predation 1954 June p 38-42 bacteriology, biological pest control, agricultural pest, insect physiology, virology, entomology, living insecticides 1956 Aug. p 96-104 agricultural pest, fire ants, dieldrin, pest control 1958 Mar p 36-41 insect attractant, synthetic attractants, chemotaxis, odor-baited lure, pheromones, third-generation insecticides 1964 Aug. p 20-27 [189] DDT residues, fallout, ecological cycles, food chain, ecological redistribution of pollutants 1967 Mar p 24-31 [1066] balsam fir factor, insect hormones, insecticide resistance, juvenile hormone, species specificity, DDT, third-generation pesticides 1967 July p 13-17 [1078] calcium metabolism, eggshell thinning, pollution, chorinated hydrocarbons, DDT, dieldrin, avian reproduction, food chain, ecological effect of pesticides 1970 Apr p 72-78 [1174] tree growth 1952 May p 36 chemotaxis, sex-hormone attractant
animal communication, cricket song, mole cricket insect census, ants, amber, insect evolution, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology 1958 Apr p 97–106 insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal induction, gene regulation 1964 Apr p 50–58 [180] insect control, sterile male screw-worm flies 1952 Jan. p 42 housefly bait 1965 July p 48 insect cuticle, ectoparasites, flea jump, insect flight, flea resilin as elastomer 1973 Nov p 92–100 [1284] insect diapause, entomology, photoperiodicity, Lepidoptera, hibernation governed by photoperiodicity 1960 Feb p 108–118 insect eggshell, aquatic insect, respiration, adaptation, entomology, selective permeability of insect 1970 Aug p 84–91 [1187] insect evolution, ants, amber, insect census, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] predatory wasps, solitary wasps, species specificity, predator-prey relationship, parasitism, behavioral clues to evolution 1963 Apr p 144–154 ants from wasps 1967 Oct p 60 insect eye, compound eye, color perception, optical resolution, insect behavior 1948 July p 42–45 fruit fly, gene mutation, paper chromatography, fractionating the fruit fly 1962 Apr p 100–110 [1166] insect behavior, ants bee, animal navigation, polarized light 1976 July p 108–120 [1364] insect flight, aerodynamics locust, wind tunnel efficiency of locust flight	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104–113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151–162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86–92 insect venom, Chaga's disease, assassin bugs, predator-prey relationship, entomology, natural history 1960 June p 72–78 insecticide, fertilizers, herbicide, agricultural technology, chemical agriculture 1952 Aug. p 15–19 alfalfa caterpillar, ecology, life cycle, agricultural pest, wilt disease, predation 1954 June p 38–42 bacteriology, biological pest control, agricultural pest, insect physiology, virology, entomology, living insecticides 1956 Aug. p 96–104 agricultural pest, fire ants, dieldrin, pest control 1958 Mar p 36–41 insect attractant, synthetic attractants, chemotaxis, odor-baited lure, pheromones, thurd-generation insecticides 1964 Aug. p 20–27 [189] DDT residues, fallout, ecological cycles, food chain, ecological redistribution of pollutants 1967 Mar p 24–31 [1066] balsam fir factor, insect hormones, insecticide resistance, juvenile hormone, species specificity, DDT, third-generation pesticides 1967 July p 13–17 [1078] calcium metabolism, eggshell thinning, pollution, chorinated hydrocarbons, DDT, dieldrin, avian reproduction, food chain, ecological effect of pesticides 1970 Apr p 72–78 [1174] tree growth 1952 May p 36 chemotaxis, sex-hormone attractant 1952 May p 36 chemotaxis, sex-hormone attractant 1956 Oct p 71
animal communication, cricket song, mole cricket 1972 Feb p 44 insect census, ants, amber, insect evolution, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology 1958 Apr p 97–106 insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal induction, gene regulation 1964 Apr p 50–58 [180] insect control, sterile male screw-worm flies 1952 Jan. p 42 housefly bait 1965 July p 48 insect cuticle, ectoparasites, flea jump, insect flight, flea resilin as elastomer 1973 Nov p 92–100 [1284] insect diapause, entomology, photoperiodicity, Lepidoptera, hibernation governed by photoperiodicity 1960 Feb p 108–118 insect eggshell, aquatic insect, respiration, adaptation, entomology, selective permeability of insect 1970 Aug p 84–91 [1187] insect evolution, ants, amber, insect census, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] predatory wasps, solitary wasps, species specificity, predator-prey relationship, parasitism, behavioral clues to evolution 1963 Apr p 144–154 ants from wasps 1967 Oct p 60 insect eye, compound eye, color perception, optical resolution, insect behavior 1948 July p 42–45 fruit fly, gene mutation, paper chromatography, fractionating the fruit fly insect behavior, ants bee, animal navigation, polarized light compound eye, eye, ommatidia 1977 July p 108–120 [1364] insect flight, aerodynamics locust, wind tunnel efficiency of locust flight 1956 Mar p 116–124	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104–113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151–162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86–92 insect venom, Chaga's disease, assassin bugs, predator-prey relationship, entomology, natural history 1960 June p 72–78 insecticide, fertilizers, herbicide, agricultural technology, chemical agriculture 1952 Aug. p 15–19 alfalfa caterpillar, ecology, life cycle, agricultural pest, wilt disease, predation 1954 June p 38–42 bacteriology, biological pest control, agricultural pest, insect physiology, virology, entomology, living insecticides 1956 Aug. p 96–104 agricultural pest, fire ants, dieldrin, pest control 1958 Mar p 36–41 insect attractant, synthetic attractants, chemotaxis, odor-baited lure, pheromones, third-generation insecticides 1964 Aug. p 20–27 [189] DDT residues, fallout, ecological cycles, food chain, ecological redistribution of pollutants 1967 Mar p 24–31 [1066] balsam fir factor, insect hormones, insecticide resistance, juvenile hormone, species specificity, DDT, third-generation pesticides 1967 July p 13–17 [1078] calcium metabolism, eggshell thinning, pollution, chorinated hydrocarbons, DDT, dieldrin, avian reproduction, food chain, ecological effect of pesticides 1970 Apr p 72–78 [1174] tree growth 1952 May p 36 chemotaxis, sex-hormone attractant 1953 Dec p 54
animal communication, cricket song, mole cricket insect census, ants, amber, insect evolution, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology 1958 Apr p 97–106 insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal induction, gene regulation 1964 Apr p 50–58 [180] insect control, sterile male screw-worm flies 1965 July p 48 insect cuticle, ectoparasites, flea jump, insect flight, flea resilin as elastomer 1973 Nov p 92–100 [1284] insect diapause, entomology, photoperiodicity, Lepidoptera, hibernation governed by photoperiodicity 1960 Feb p 108–118 insect eggshell, aquatic insect, respiration, adaptation, entomology, selective permeability of insect 1970 Aug p 84–91 [1187] insect evolution, ants, amber, insect census, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] predatory wasps, solitary wasps, species specificity, predator-prey relationship, parasitism, behavioral clues to evolution 1963 Apr p 144–154 ants from wasps 1967 Oct p 60 insect eye, compound eye, color perception, optical resolution, insect behavior 1948 July p 42–45 fruit fly, gene mutation, paper chromatography, fractionating the fruit fly 1962 Apr p 100–110 [1166] insect behavior, ants bee, animal navigation, polarized light 1976 July p 108–120 [1364] insect flight, aerodynamics locust, wind tunnel efficiency of locust flight 1956 Mar p 116–124 1958 Dec p 92–98 muscle fibril sarcoplasmic reticulum synchronius muscle	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104–113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151–162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86–92 insect venom, Chaga's disease, assassin bugs, predator-prey relationship, entomology, natural history 1960 June p 72–78 insecticide, fertilizers, herbicide, agricultural technology, chemical agriculture 1952 Aug. p 15–19 alfalfa caterpillar, ecology, life cycle, agricultural pest, wilt disease, predation 1954 June p 38–42 bacteriology, biological pest control, agricultural pest, insect physiology, virology, entomology, living insecticides 1956 Aug. p 96–104 agricultural pest, fire ants, dieldrin, pest control agricultural pest, fire ants, dieldrin, pest control 1958 Mar p 36–41 insect attractant, synthetic attractants, chemotaxis, odor-baited lure, pheromones, third-generation insecticides 1964 Aug. p 20–27 [189] DDT residues, fallout, ecological cycles, food chain, ecological redistribution of pollutants 1967 Mar p 24–31 [1066] balsam fir factor, insect hormones, insecticide resistance, juvenile hormone, species specificity, DDT, third-generation pesticides 1967 July p 13–17 [1078] calcium metabolism, eggshell thinning, pollution, chorinated hydrocarbons, DDT, dieldrin, avian reproduction, food chain, ecological effect of pesticides 1970 Apr p 72–78 [1174] tree growth 1952 May p 36 chemotaxis, sex-hormone attractant juvenile hormone 1956 Oct p 71 synthetic hormone for moth control 1960 Dec p 89
animal communication, cricket song, mole cricket insect census, ants, amber, insect evolution, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology 1958 Apr p 97–106 insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal induction, gene regulation 1964 Apr p 50–58 [180] insect control, sterile male screw-worm flies 1965 July p 48 insect cuticle, ectoparasites, flea jump, insect flight, flea resilin as elastomer 1973 Nov p 92–100 [1284] insect diapause, entomology, photoperiodicity, Lepidoptera, hibernation governed by photoperiodicity 1960 Feb p 108–118 insect eggshell, aquatic insect, respiration, adaptation, entomology, selective permeability of insect 1970 Aug p 84–91 [1187] insect evolution, ants, amber, insect census, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] predatory wasps, solitary wasps, species specificity, predator-prey relationship, parasitism, behavioral clues to evolution 1963 Apr p 144–154 ants from wasps 1967 Oct p 60 insect eye, compound eye, color perception, optical resolution, insect behavior 1948 July p 42–45 fruit fly, gene mutation, paper chromatography, fractionating the fruit fly 1962 Apr p 100–110 [1166] insect behavior, ants bee, animal navigation, polarized light 1976 July p 108–115 [1342] compound eye, eye, ommatidia 1977 July p 108–110 [1364] insect flight, aerodynamics locust, wind tunnel efficiency of locust flight 1956 Mar p 116–124	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104-113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151-162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86-92 insect venom, Chaga's disease, assassin bugs, predator-prey relationship, entomology, natural history 1960 June p 72-78 insecticide, fertilizers, herbicide, agricultural technology, chemical agriculture 1952 Aug. p 15-19 alfalfa caterpillar, ecology, life cycle, agricultural pest, wilt disease, predation 1954 June p 38-42 bacteriology, biological pest control, agricultural pest, insect physiology, virology, entomology, living insecticides 1956 Aug. p 96-104 agricultural pest, fire ants, dieldrin, pest control agricultural pest, fire ants, dieldrin, pest control pheromones, third-generation insecticides 1956 Aug. p 20-27 [189] DDT residues, fallout, ecological cycles, food chain, ecological redistribution of pollutants 1967 Mar p 24-31 [1066] balsam fir factor, insect hormones, insecticide resistance, juvenile hormone, species specificity, DDT, third-generation pesticides 1967 July p 13-17 [1078] calcium metabolism, eggshell thinning, pollution, chorinated hydrocarbons, DDT, dieldrin, avian reproduction, food chain, ecological effect of pesticides 1970 Apr p 72-78 [1174] tree growth 1952 May p 36 chemotaxis, sex-hormone attractant juvenile hormone synthetic hormone for moth control gypsy moth female sex hormone 1960 Dec p 89 chemical sterilization of insect 1962 Jan p 58
animal communication, cricket song, mole cricket insect census, ants, amber, insect evolution, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology 1958 Apr p 97–106 insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal induction, gene regulation 1964 Apr p 50–58 [180] insect control, sterile male screw-worm flies 1965 July p 48 insect cuticle, ectoparasites, flea jump, insect flight, flea resilin as elastomer 1973 Nov p 92–100 [1284] insect diapause, entomology, photoperiodicity, Lepidopiera, hibernation governed by photoperiodicity 1960 Feb p 108–118 insect eggshell, aquatic insect, respiration, adaptation, entomology, selective permeability of insect 1970 Aug p 84–91 [1187] insect evolution, ants, amber, insect census, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] predatory wasps, solitary wasps, species specificity, predator-prey relationship, parasitism, behavioral clues to evolution 1963 Apr p 144–154 ants from wasps 1967 Oct p 60 insect eye, compound eye, color perception, optical resolution, insect behavior 1948 July p 42–45 fruit fly, gene mutation, paper chromatography, fractionating the fruit fly 1962 Apr p 100–110 [1166] insect behavior, ants bee, animal navigation, polarized light 1976 July p 108–120 [1364] insect flight, aerodynamics locust, wind tunnel efficiency of locust flight 1958 Dec p 92–98 muscle flibri sarcoplasmic reticulum, synchronous muscle, asynchronous muscle, insect flight muscles	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104-113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151-162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86-92 insect venom, Chaga's disease, assassin bugs, predator-prey relationship, entomology, natural history 1960 June p 72-78 insecticide, fertilizers, herbicide, agricultural technology, chemical agriculture 1952 Aug. p 15-19 alfalfa caterpillar, ecology, life cycle, agricultural pest, wilt disease, predation 1954 June p 38-42 bacteriology, biological pest control, agricultural pest, insect physiology, virology, entomology, living insecticides 1956 Aug. p 96-104 agricultural pest, fire ants, dieldrin, pest control 1958 Mar p 36-41 insect attractant, synthetic attractants, chemotaxis, odor-baited lure, pheromones, third-generation insecticides 1964 Aug. p 20-27 [189] DDT residues, fallout, ecological cycles, food chain, ecological redistribution of pollutants 1967 Mar p 24-31 [1066] balsam fir factor, insect hormones, insecticide resistance, juvenile hormone, species specificity, DDT, third-generation pesticides 1967 July p 13-17 [1078] calcium metabolism, eggshell thinning, pollution, chormated hydrocarbons, DDT, dieldrin, avian reproduction, food chain, ecological effect of pesticides 1970 Apr p 72-78 [1174] tree growth 1952 May p 36 chemical sterilization of insect 1960 Dec p 84 pysy moth female sex hormone 1956 Oct p 71 1960 Dec p 84 pysy moth female sex hormone 1960 Dec p 84 policition in policition in fish deaths
animal communication, cricket song, mole cricket insect census, ants, amber, insect evolution, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology 1958 Apr p 97–106 insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal induction, gene regulation 1964 Apr p 50–58 [180] insect control, stenle male screw-worm flies 1952 Jan. p 42 housefly bait 1965 July p 48 insect cuticle, ectoparasites, flea jump, insect flight, flea resilin as elastomer 1973 Nov p 92–100 [1284] insect diapause, entomology, photoperiodicity, Lepidoptera, hibernation governed by photoperiodicity 1960 Feb p 108–118 insect eggshell, aquatic insect, respiration, adaptation, entomology, selective permeability of insect 1970 Aug p 84–91 [1187] insect evolution, ants, amber, insect census, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] predatory wasps, solitary wasps, species specificity, predator-prey relationship, parasitism, behavioral clues to evolution 1963 Apr p 144–154 ants from wasps 1967 Oct p 60 insect eye, compound eye, color perception, optical resolution, insect behavior 1948 July p 42–45 fruit fly, gene mutation, paper chromatography, fractionating the fruit fly gene mutation, paper chromatography, fractionating the fruit fly insect behavior, ants bee, animal navigation, polarized light 1976 July p 106–115 [1342] compound eye, eye, ommatidia 1977 July p 108–120 [1364] insect flight, aerodynamics locust, wind tunnel efficiency of locust flight 1958 Dec p 92–98 muscle fibril sarcoplasmic reticulum, synchronous muscle, asynchronous muscle, insect flight muscles	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104-113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151-162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86-92 insect venom, Chaga's disease, assassin bugs, predator-prey relationship, entomology, natural history 1960 June p 72-78 insecticide, fertilizers, herbicide, agricultural technology, chemical agriculture 1952 Aug. p 15-19 alfalfa caterpillar, ecology, life cycle, agricultural pest, wilt disease, predation 1954 June p 38-42 bacteriology, biological pest control, agricultural pest, insect physiology, virology, entomology, living insecticides 1956 Aug. p 96-104 agricultural pest, fire ants, dieldrin, pest control 1958 Mar. p 36-41 insect attractant, synthetic attractants, chemotaxis, odor-baited lure, pheromones, third-generation insecticides 1964 Aug. p 20-27 [189] DDT residues, fallout, ecological cycles, food chain, ecological redistribution of pollutants 1967 Mar. p 24-31 [1066] balsam fir factor, insect hormones, insecticide resistance, juvenile hormone, species specificity, DDT, third-generation pesticides 1967 July p 13-17 [1078] calcium metabolism, eggshell thinning, pollution, chorinated hydrocarbons, DDT, dieldrin, avian reproduction, food chain, ecological effect of pesticides 1960 Apr. p 72-78 [1174] tree growth chemotaxis, sex-hormone attractant juvenile hormone 1958 Oct. p 71 synthetic hormone for moth control gypty moth female sex hormone 1960 Dec. p 84 gypty moth female sex hormone chemical sterilization of insect endrin, implicated in fish deaths pheromone, sev attractant 1966 Dec. p 64
animal communication, cricket song, mole cricket insect census, ants, amber, insect evolution, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology 1958 Apr p 97–106 insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal induction, gene regulation 1964 Apr p 50–58 [180] insect control, sterile male screw-worm flies 1952 Jan. p 42 housefly bait 1965 July p 48 insect cuticle, ectoparasites, flea jump, insect flight, flea resilin as elastomer 1973 Nov p 92–100 [1284] insect diapause, entomology, photoperiodicity, Lepidoptera, lubernation governed by photoperiodicity 1960 Feb p 108–118 insect eggshell, aquatic insect, respiration, adaptation, entomology, selective permeability of insect 1970 Aug p 84–91 [1187] insect evolution, ants, amber, insect census, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] predatory wasps, solitary wasps, species specificity, predator-prey relationship, parasitism, behavioral clues to evolution 1963 Apr p 144–154 ants from wasps 1967 Oct p 60 insect eye, compound eye, color perception, optical resolution, insect behavior 1948 July p 42–45 fruit fly, gene mutation, paper chromatography, fractionating the fruit fly gene mutation, paper chromatography, fractionating the fruit 1962 Apr p 100–110 [1166] insect behavior, ants bee, animal navigation, polanzed light 1976 July p 108–120 [1364] insect flight, aerodynamics 1977 July p 108–120 [1364] insect flight, aerodynamics 1988 Dec p 92–98 muscle fibril sarcoplasmic reticulum, synchronous muscle, asynchronous muscle, insect flight muscles	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104–113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151–162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86–92 insect venom, Chaga's disease, assassin bugs, predator-prey relationship, entomology, natural history 1960 June p 72–78 insecticide, fertilizers, herbicide, agricultural technology, chemical agriculture 1952 Aug. p 15–19 alfalfa caterpillar, ecology, life cycle, agricultural pest, wilt disease, predation 1954 June p 38–42 bacteriology, biological pest control, agricultural pest, insect physiology, virology, entomology, living insecticides 1956 Aug. p 96–104 agricultural pest, fire ants, dieldrin, pest control 1958 Mar p 36–41 insect attractant, synthetic attractants, chemotaxis, odor-batted lure, pheromones, third-generation insecticides 1964 Aug. p 20–27 [189] DDT residues, fallout, ecological cycles, food chain, ecological redistribution of pollutants 1967 Mar p 24–31 [1066] balsam fir factor, insect hormones, insecticide resistance, juvenile hormone, species specificity, DDT, third-generation pesticides 1967 July p 13–17 [1078] calcium metabolism, eggshell thinning, pollution, chorinated hydrocarbons, DDT, dieldrin, avian reproduction, food chain, ecological effect of pesticides 1970 Apr p 72–78 [1174] tree growth 1952 May p 36 chemical sterilization of insect 1960 Dec p 84 gypsy moth female sex hormone 1960 Dec p 89 chemical sterilization of insect 1962 Jan p 58 endrin, implicated in fish deaths pheromone, sex attractant 1966 Dec p 64 synthetic juvenile louse hormone
animal communication, cricket song, mole cricket insect census, ants, amber, insect evolution, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology 1958 Apr p 97–106 insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal induction, gene regulation 1964 Apr p 50–58 [180] insect control, stenle male screw-worm flies 1952 Jan. p 42 housefly bait 1965 July p 48 insect cuticle, ectoparasites, flea jump, insect flight, flea resilin as elastomer 1973 Nov p 92–100 [1284] insect diapause, entomology, photoperiodicity, Lepidoptera, libernation governed by photoperiodicity 1960 Feb p 108–118 insect eggshell, aquatic insect, respiration, adaptation, entomology, selective permeability of insect 1970 Aug p 84–91 [1187] insect evolution, ants, amber, insect census, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] predatory wasps, solitary wasps, species specificity, predator-prey relationship, parasitism, behavioral clues to evolution 1963 Apr p 144–154 ants from wasps 1967 Oct p 60 insect eye, compound eye, color perception, optical resolution, insect behavior 1948 July p 42–45 fruit fly, gene mutation, paper chromatography, fractionating the fruit fly 1962 Apr p 100–110 [1166] insect behavior, ants bee, animal navigation, polanzed light 1976 July p 108–120 [1364] insect flight, aerodynamics 1977 July p 108–120 [1364] insect flight, aerodynamics 1958 Dec p 92–98 muscle fibril sarcoplasmic reticulum, synchronous muscle, asynchronous muscle, insect flight muscles 1968 May p 83–90 invect behavior, animal navigation, locust nervous system response to	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104–113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151–162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86–92 insect venom, Chaga's disease, assassin bugs, predator-prey relationship, entomology, natural history 1960 June p 72–78 insecticide, fertilizers, herbicide, agricultural technology, chemical agriculture 1952 Aug. p 15–19 alfalfa caterpillar, ecology, life cycle, agricultural pest, wilt disease, predation 1954 June p 38–42 bacteriology, biological pest control, agricultural pest, insect physiology, virology, entomology, living insecticides 1956 Aug. p 96–104 agricultural pest, fire ants, dieldrin, pest control 1958 Mar. p 36–41 insect attractant, synthetic attractants, chemotaxis, odor-baited lure, pheromones, third-generation insecticides 1964 Aug. p 20–27 [189] DDT residues, fallout, ecological cycles, food chain, ecological redistribution of pollutants 1967 Mar. p 24–31 [1066] balsam fir factor, insect hormones, insecticide resistance, juvenile hormone, species specificity, DDT, third-generation pesticides 1967 July p 13–17 [1078] calcium metabolism, eggshell thinning, pollution, chorinated hydrocarbons, DDT, dieldrin, avian reproduction, food chain, ecological effect of pesticides 1970 Apr. p. 72–78 [1174] tree growth chemotaxis, sex-hormone attractant juvenile hormone synthetic hormone for moth control gypsy moth female sex hormone 1956 Oct. p. 71 synthetic hormone for moth control gypsy moth female sex hormone 1960 Dec. p. 84 pheromone, sex attractant 1964 May. p. 64 1965 Dec. p. 64 1967 Sept. p. 104 1967 Nov. p. 54 1967 Nov. p. 54
animal communication, cricket song, mole cricket insect census, ants, amber, insect evolution, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] insect chemoreception, silkworm, olfaction, taste, chemical senses, comparative physiology 1958 Apr p 97–106 insect chromosome, DNA, chromosome puffs, RNA synthesis, hormonal induction, gene regulation 1964 Apr p 50–58 [180] insect control, sterile male screw-worm flies 1952 Jan. p 42 housefly bait 1965 July p 48 insect cuticle, ectoparasites, flea jump, insect flight, flea resilin as elastomer 1973 Nov p 92–100 [1284] insect diapause, entomology, photoperiodicity, Lepidoptera, lubernation governed by photoperiodicity 1960 Feb p 108–118 insect eggshell, aquatic insect, respiration, adaptation, entomology, selective permeability of insect 1970 Aug p 84–91 [1187] insect evolution, ants, amber, insect census, insects in 'more than royal tomb' 1951 Nov p 56–61 [838] predatory wasps, solitary wasps, species specificity, predator-prey relationship, parasitism, behavioral clues to evolution 1963 Apr p 144–154 ants from wasps 1967 Oct p 60 insect eye, compound eye, color perception, optical resolution, insect behavior 1948 July p 42–45 fruit fly, gene mutation, paper chromatography, fractionating the fruit fly gene mutation, paper chromatography, fractionating the fruit 1962 Apr p 100–110 [1166] insect behavior, ants bee, animal navigation, polanzed light 1976 July p 108–120 [1364] insect flight, aerodynamics 1977 July p 108–120 [1364] insect flight, aerodynamics 1988 Dec p 92–98 muscle fibril sarcoplasmic reticulum, synchronous muscle, asynchronous muscle, insect flight muscles	adaptation, plant evolution, mimicry, butterfly-plant association 1967 June p 104–113 [1076] insect reproduction, plant galls, parasitism, plant growth, parasite- induced changes in plants 1959 Nov p 151–162 insect vectors, toxoplasmosis, parasitism, intracellular parasite, infectious disease, encephalitis 1953 Feb p 86–92 insect venom, Chaga's disease, assassin bugs, predator-prey relationship, entomology, natural history 1960 June p 72–78 insecticide, fertilizers, herbicide, agricultural technology, chemical agriculture 1952 Aug. p 15–19 alfalfa caterpillar, ecology, life cycle, agricultural pest, wilt disease, predation 1954 June p 38–42 bacteriology, biological pest control, agricultural pest, insect physiology, virology, entomology, living insecticides 1956 Aug. p 96–104 agricultural pest, fire ants, dieldrin, pest control 1958 Mar p 36–41 insect attractant, synthetic attractants, chemotaxis, odor-batted lure, pheromones, third-generation insecticides 1964 Aug. p 20–27 [189] DDT residues, fallout, ecological cycles, food chain, ecological redistribution of pollutants 1967 Mar p 24–31 [1066] balsam fir factor, insect hormones, insecticide resistance, juvenile hormone, species specificity, DDT, third-generation pesticides 1967 July p 13–17 [1078] calcium metabolism, eggshell thinning, pollution, chorinated hydrocarbons, DDT, dieldrin, avian reproduction, food chain, ecological effect of pesticides 1970 Apr p 72–78 [1174] tree growth 1952 May p 36 chemical sterilization of insect 1960 Dec p 84 gypsy moth female sex hormone 1960 Dec p 89 chemical sterilization of insect 1962 Jan p 58 endrin, implicated in fish deaths pheromone, sex attractant 1966 Dec p 64 synthetic juvenile louse hormone

insecticide resistance Index to Topus

U.S bans DDT	1970 Jan p 48	binary arithmetic, Boolean logic, large-scale inte	grated circuits logic
pheromones	1970 Apr. p 46		7 Sept p 82–106 [376]
artificial-light insect control	1972 Feb p 44	large-scale integrated circuits, photolithographic	techniques
gypsy-moth control by pheromone	1972 Sept p 66		Sept p 110-128 [377]
microwave 'zapper'	1973 Sept p 74 cides 1952 Oct p 21–25	telephone, electronic telephone, solid-state elect	78 Mar p 58-64 [3002]
insecticide resistance, DDT, persistent insecti insecticide, balsam-fir factor, insect hormor		on integrated circuits 195 three-mask technique	1970 Apr p 46
species specificity, DDT, third-generatio		computer memory	1970 Nov p 4
apecies specificity, DD 1, time generatio	1967 July p 13–17 [1078]	integration, racial discrimination, prejudice, Amer	can Negro public
insecurity, prejudice, hostility, attitude survey		opinion, attitude survey, US whites, segregat	ion, longitudinal
insight, problem solving, Gestalt psychology,		attitude study	178 June p 42-49 [101]
	1963 Apr. p 118-128 [476]	intellectual resources of U.S., college graduates, do	octorates, test scores
Institute for Defense Analysis, university disa	ffiliation 1968 May p 48		1951 Sept p 42-46
institutional grants, NSF, 'mission-oriented'	funding agencies, science	intelligence, elephant, learning, vision, research in	1957 Feb p 44-49
funding, science policy, fundamental res	earch, project grants,	evolution, learning, memory, language, imagery,	
university science, problems in governme		neuchology learning in man and animals	195/ June p 140-150
U S instructable machines, automatic control, con	1965 July p 19–25	avalution habit reversal probability learning in	telligence compared in
systems, servomechanisms	1976 Feb p 76–86B	five animals	02 July b 25 100 1 1
instrument panel, psychology, pilot error, ergo		brain hemispheres, cerebral dominance, percepti	on, split-brain
instrument panels for their users	1953 Apr p 74-82 [496]	language local	67 Aug p 24-29 [508]
insulation, clothing, objective, physical standa	ards for 'warm'	function 13	Ol And b the t
	1951 Mar p 5660	race, whites, IQ, heredity, American Negro, here genetics, science policy, social psychology, twi	Me billioning to a series
circulatory system, thermoregulation, cold	adaptation, fur, metabolism	discrimination 19	70 Oct p 19-29 [1199]
	1966 Jan p 94–101 [1032]	the state of the s	endocranial casts
insulin, amino-acid sequence, protein structur	1955 May p 36-41	paleoneurology 19	76 Jan p 90-101 [568]
amino-acid sequence, sugar metabolism, ce		intelligence quotient, see 10	1951 June p 64-68
physiology action of insulin	1958 May p 99-106	intelligence test, animal behavior, problem box	1970 Nov p 44
protein structure, ribonuclease, amino-acid	sequence, enzyme action,	IQ, challenged on cultural bias	ith
myoglobin, resolution of atomic structur	e of three molecules	intelligence test scores, school attendance, US you	
• •	1961 Feb p 81-92 [80]	intelligent life, evolution, astronomical probabilitie	c The thesis man is
actinomyosin, ecdysone, cortisone, estroge	ns, gene activation, KIVA		
synthesis, aldosterone, growth hormone,	1965 June p 36-45 [1013]	Inteleat, artificial satellite, communication satellite,	77 Feb p 58-73 [353]
mechanism of hormone action automatic synthesis, protein synthesis, ami	no acids, peptide bond,	Communications Safellife ACI (1987)	11 7 00 5
'solid phase' method of synthesis, polyst	vrene beads	intensive care, cardiac arrhythmia, coronary care in coronary occlusion, electrocardiography, nerve	conduction heart
Solid plase meases of systems of the	1968 Mar p 30-74 (320)		
human protein synthesized	1966 Apr p 50	acute respiratory failure, tracheostomy, lung, also	colar collapse,
automatic synthesis	1966 Dec p 58 1969 Oct p 47	acute respiratory failure, tracheostomy, fung, and emphysema, pathogenesis and treatment of act	1969 Nov p 23-29
three-dimensional structure determined		t and automatic	nell noncultural
integrated circuits, memory circuits, compute		intercalary water, irrigation, ground water, artesian technology, Sahara desert, water resource man	gement, land
computer electronic components industry, transistor,	microelectronics, silicon	technology, Sanara desert, water resource	1066 May p 21-29
(mlasma)	1302 HOT P 20 10	reclamation, 'fossil' water, making desert fertile intercalated crystals, BCS theory, crystal structure, the intercalated crystals, compounds, superconductions and compounds.	electrical properties to
at water nomentar technology SV	vitching elements, logic	metals, intermetallic compounds, superconduct	1971 Nov p 22-33
circuits, computer memory, microelectro	1966 Sept p 74-85	superconductors intercellular communication, cell membrane salivary	eland epithelium
oxide semiconductors, magnetic core, comp	outer memory,	molecular signals membrane permeability, jun	ctions in cell
microelectronics, advent of integrated-ci	ICIII SCIIIICOIIGGOGG	molecular signals inclinorance permanent	May p 78-86 [1178]
		Illetitorane	manufact to CCCCS 1 (1)1)
metal-oxide semicondu	ctors, microelectromes,	ducis. Startings hypothesis 13mp. and	1963 June p 80-90
large-scale integrated circuits, logic circuits	1970 Feb p 22-31	body's 'second circulation	cost assessment
computer graphics, laser, computer technological	logy, computer modeling	price trends materials technology metals, plast	ics competition
		among malemals	967 Sept p 254-266
computer technology, USSR, software, C	1970 Oct p 102-108		ometry radio
		intercontinental ballistic mistic, see Februari intercontinental interferometry, radio source interferometry	1972 Feb p 72-83
electron optics, microcircuit fabrication, co fabrication, silicon 'chips', computer tecl	prology 1972 Nov p 34-44	telescope, long-base interferometry interdisciplinary collaboration, molecular biology ph	control chemistry
	1110102)		
late amitting diode, liquid crystals, Nixie t	tubes, numeric displays	antigen-antibody reaction collaboration of G	1040 May 0 16 21
light-emitting diode, liquid crystais, reste	tubes, numeric displays	antigen-antibody reaction contained of a	1949 May p 16 21
light-emitting diode, inquid crystais, 171500	1973 June p 64-73 ucs silicon 'chips', transistor	antigen-antibody reaction contained of a	optics
light-emitting diode, inquid crystais, resident metal-oxide semiconductors, microelectron	iubes, numeric displays 1973 June p 64-73 ucs silicon 'chips', transistor 1973 Aug p 48-57	interference, diffraction light, wave particle duality, electromagnetic waves photon emission introdu	optics iction to single top c 1968 Sept. p. 50-59
light-emitting diode, inquid crystais, resident metal-oxide semiconductors, microelectron	iubes, numeric displays 1973 June p 64-73 ucs silicon 'chips', transistor 1973 Aug p 48-57	interference, diffraction light, wave particle duality, electromagnetic waves photon emission introdussue on light coherent radiation. Brillouin scattering energy leve	1949 May p. 16. 21 optics action to single top c. 1968 Sept. p. 50. 59 ds. Liser hebt. 165 Sept. p. 120. 136
metal-oxide semiconductors, microelectron laser light manipulation, light propagation optical devices, optical circuits, photons	uibes, numeric displays 1973 June p 64-73 uics silicon 'chips', transistor 1973 Aug p 48-57 in thin films thin-film instead of electrons in 1974 Apr p 28-35	interference, diffraction light, wave particle duality, electromagnetic waves photon emission introdussue on light coherent radiation. Brillouin scattering energy leve	1949 May p. 16-21 optics action to single topic 1968 Sept. p. 50-59 ds. Liser light 264 Sept. p. 120-136
light-emitting diode, inquid crystais, rester- metal-oxide semiconductors, microelectron laser light manipulation, light propagation optical devices, optical circuits, photons circuits metal-oxide semiconductors, microcomput	1973 June p 64-73 ucs silicon 'chips', transistor 1973 Aug p 48-57 in thin films thin-film instead of electrons in 1974 Apr p 28-35 ers, microelectronics, 'chips' 1975 May p 32-40	interference, diffraction light, wave particle duality, electromagnetic waves photon emission introduction light coherent radiation. Brillouin scattering energy leve acoustic holography, laser, sound waves holography	optics action to single top c 1968 Sept. p. 50-59 ds. Liser light 268 Sept. p. 120-136 Sept. p. 120-136 s. acoustic imazing 1979 Oct. p. 37
light-emitting diode, inquid crystais, rester- metal-oxide semiconductors, microelectron laser light manipulation, light propagation optical devices, optical circuits, photons circuits metal-oxide semiconductors, microcomput	1973 June p 64-73 ucs silicon 'chips', transistor 1973 Aug p 48-57 in thin films thin-film instead of electrons in 1974 Apr p 28-35 ers, microelectronics, 'chips' 1975 May p 32-40	interference, diffraction light, wave particle duality, electromagnetic waves photon emission introdussue on light coherent radiation, Brillouin scattering energy leve acoustic holography, laser, sound waves holography nondestructive testing, medical diagnosis	1949 May p. 16. 21 optics action to single topic 1968 Sept. p. 50. 59 ds. Essential topic 1968 Sept. p. 120. 136 acoustic impairs 1979 Oct. p. W. Office topic relation
light-emitting diode, inquid crystais, former metal-oxide semiconductors, microelectron laser light manipulation, light propagation optical devices, optical circuits, photons circuits metal-oxide semiconductors, microcomput microprocessors, minicomputers, silicon light prochet calculations metal-oxide computer, pocket calculations are computer, pocket calculations and processors are computer, pocket calculations and processors are computer, pocket calculations are calculated as a computer of the calculation and processors are calculated as a computer of the calculation and calculations are calculated as a calculation and calculations are calculated as a calculation and calculations are calculated as a calculation and calculated as a	inbes, numeric displays 1973 June p 64-73 incs silicon 'chips', transistor 1973 Aug p 48-57 in thin films thin-film instead of electrons in 1974 Apr p 28-35 ers, microelectronics, 'chips' 1975 May p 32-40 culator, memory	interference, diffraction light, wave particle duality, electromagnetic waves photon emission introduction on light coherent radiation. Brillouin scattering energy leve acoustic holography, laser, sound waves holography nondestructive testing, medical diagnosis interference fringes, electron wave particle duality, diffraction. Division Germer experiment	1949 May p. 16-21 optics action to single topic 1968 Sept. p. 50-59 dis Fiser light 368 Sept. p. 120-136 a acoustic imazina 1979 Oct. p. 36 diffraction electron 1948 May p. 45-53
light-emitting diode, inquid crystais, restor- metal-oxide semiconductors, microelectron laser light manipulation, light propagation optical devices, optical circuits, photons circuits metal-oxide semiconductors, microcomput- microprocessors, minicomputers, silicon calculating machine, computer, pocket calc	inbes, numeric displays 1973 June p 64-73 its silicon 'chips', transistor 1973 Aug p 48-57 in thin films thin-film instead of electrons in 1974 Apr p 28-35 ers, microelectronics, 'chips' 1975 May p 32-40 initial films are silicon 1976 Mar p 88-98 inclosed innovation, silicon	interference, diffraction light, wave particle duality, electromagnetic waves photon emission introdustation light coherent radiation. Brillouin scattering energy leve acoustic holography. Inser, sound waves holography nondestructive testing, medical diagnosis interference fringes, electron wave particle duality, diffraction Division Germer experiment standard of length interferometry, mercury 199	1949 May p. 16-21 optics action to single topic 1968 Sept. p. 50-59 dis liser light 1968 Sept. p. 120-136 acoustic imazina 1979 Oct. p. 34 offraction electron 1948 May p. 45-53 or are further topic.
light-emitting diode, inquid crystais, former metal-oxide semiconductors, microelectron laser light manipulation, light propagation optical devices, optical circuits, photons circuits metal-oxide semiconductors, microcomput microprocessors, minicomputers, silicon calculating machine, computer, pocket calculating machine, computer, pocket calculatings, introduction to single-topic issue	iubes, numeric displays 1973 June p 64-73 iucs silicon 'chips', transistor 1973 Aug p 48-57 in thin films thin-film instead of electrons in 1974 Apr p 28-35 ers, microelectronics, 'chips' 1975 May p 32-40 culator, memory 1976 Mar p 88-93 cological innovation, silicon on microelectronics 1977 Sept p 62-69 [374]	interference, diffraction light, wave particle duality, electromagnetic waves photon emission introdussue on light coherent radiation, Brillouin scattering energy leve acoustic holography, laser, sound waves holography nondestructive testing, medical diagnosis interference fringes, electron wave particle duality, duffraction Division Germer experiment standard of length interferometry, mercury 19% interference patterns, holography memory learning to the property of the property of the standard of the stan	1949 May p. 16-21 optics action to single topic 1968 Sept. p. 50-59 els. Liser light 1968 Sept. p. 120-136 acoustic imazing 1979 Oct. p. 37 diffraction electron 1948 May p. 45-53 or in function in Sept. p. 120-136 Sept. p. 120-136 Sept. p. 120-136 Sept. p. 120-136 Sept. p. 16-136 Sept.
light-emitting diode, inquid crystais, former metal-oxide semiconductors, microelectron laser light manipulation, light propagation optical devices, optical circuits, photons circuits metal-oxide semiconductors, microcomput microprocessors, minicomputers, silicon calculating machine, computer, pocket calculating machine, computer, pocket calculatings, introduction to single-topic issue	iubes, numeric displays 1973 June p 64-73 iucs silicon 'chips', transistor 1973 Aug p 48-57 in thin films thin-film instead of electrons in 1974 Apr p 28-35 ers, microelectronics, 'chips' 1975 May p 32-40 culator, memory 1976 Mar p 88-93 cological innovation, silicon on microelectronics 1977 Sept p 62-69 [374]	interference, diffraction light, wave particle duality, electromagnetic waves photon emission introdussue on light coherent radiation, Brillouin scattering energy leve acoustic holography, laser, sound waves holography nondestructive testing, medical diagnosis interference fringes, electron wave particle duality, duffraction Division Germer experiment standard of length interferometry, mercury 19% interference patterns, holography memory learning to the property of the property of the standard of the stan	1949 May p. 16-21 optics action to single topic 1968 Sept. p. 50-59 dis liser light 1968 Sept. p. 120-136 acoustic imazina 1979 Oct. p. 34 offraction electron 1948 May p. 45-53 or are further topic.
light-emitting diode, inquid crystais, restor- metal-oxide semiconductors, microelectron laser light manipulation, light propagation optical devices, optical circuits, photons circuits metal-oxide semiconductors, microcomput- microprocessors, minicomputers, silicon calculating machine, computer, pocket calc	iubes, numeric displays 1973 June p 64-73 iucs silicon 'chips', transistor 1973 Aug p 48-57 in thin films thin-film instead of electrons in 1974 Apr p 28-35 ers, microelectronics, 'chips' 1975 May p 32-40 culator, memory 1976 Mar p 88-93 cological innovation, silicon on microelectronics 1977 Sept p 62-69 [374]	interference, diffraction light, wave particle duality, electromagnetic waves photon emission introdussue on light coherent radiation, Brillouin scattering energy leve acoustic holography, laser, sound waves holography nondestructive testing, medical diagnosis interference fringes, electron wave particle duality, duffraction Division Germer experiment standard of length interferometry, mercury 19% interference patterns, holography memory learning to the property of the property of the standard of the stan	1949 May p. 16. 21 optics action to single topic 1968 Sept. p. 50. 59. 618 Tiser light 1968 Sept. p. 120. 136 acoustic imazing 1979 Oct. p. 37. 47. 47. 47. 47. 47. 47. 47. 47. 47. 4

interferometry, standard of length, mercury 1	98, interference fringes	nuclear power, 'atomic pool' proposal	1955 Apr p 31–35
	1948 Aug p 48-53	pollution control, jurisdictional disputes, oceano	
ultrasonics, emulsification, nondestructive	testing, sonar	management, international competition and c	
	1954 May p 54-63		Sept p 218–234 [888]
radio telescope, radio, helical antenna	1955 Mar p 36-43	International Council of Scientific Unions, continu	
artificial satellite, orbital motion, antennae	, radio astronomy, tracking	collaboration	1960 Apr p 83
station, satellite tracking	1958 Jan p 23-29	International Geophysical Year, see I G Y	1049 Oct = 25
solar system, moon, planets, ionosphere, ra	idar astronomy, technology	International Social Science Institute, UNESCO	
and promise of radar astronomy	1960 Aug p 50-59	International Year of Quiet Sun, solar research	1964 Dec p 62
ether drift, luminiferous ether, special relat	ivity, speed of light,	interneuron, central nervous system, reflex arc, neu	
Michelson-Morley ether-drift experimen	it 1964 Nov p 107–114	muscle contraction, nerve inhibition, motor no	1966 May p 102–110
holography, laser, wave-front reconstruction	on, lensless laser	Renshaw cell, synapse nervous system, vision, reflex arc, motor neuron.	
photography	1965 June p 24–35 [300]	small neuron systems as models for study 196	, ammar ochavior, 37 May p. 44-52 [1073]
cesium clock, length standard, mass standa	1968 June p 50–62	interpersonal relationships, group behavior, social	
temperature standard, measurement		interpersonal relationships, group behavior, social	1955 Mar p 31–35
spectroscopy, Fraunhofer lines, prism, ligh	1968 Sept p 72–82	social psychology, self-disclosure, idiosyncracy i	
diffraction grating, Girard grid	raphies image formation	social psychology, sen-disclosure, idiosynoracy i	1958 May p 77–82
camera, lens design, telescope, computer g	1968 Sept p 96–108	adolescence, conformity, social psychology, U S	
light microwaves, interstellar matter, maser, hyd		adolescents, conservator, contact populations, con	1958 June p 25-29
astronomy, energy levels, protostars	1968 Dec p 36-44	interplanetary fields, cosmic radiation, interplaneta	
earthquake prediction, laser, strain gauge,		magnetosphere, solar flares, solar wind, auror	
car inquite prediction, inser, strain Basse,	1969 Dec p 88-95	solar system	1975 Sept p 160-173
thin-film optical devices, fluorescence, wa		interplanetary navigation, spacecraft, orbital motio	n, rocket,
monomolecular films, fatty acids	1970 Mar p 108-119	communication technology, navigation, techn	ology of space
coated optics, optical interference coating		navigation	1960 Mar p 64-73
transmission, dielectric mirrors, laser	1970 Dec p 58–75	Mars, navigational accuracy, spacecraft navigati	on, Viking missions
radio source, intercontinental interferome	try, radio telescope, long-		1976 June p 58-74
base interferometry	1972 Feb p 72–83	interplanetary particles, cosmic radiation, interplan	
interferon, virology, virus interference, broa		magnetosphere, solar flares, solar wind, auror	
agent	1961 May p 51-57 [87]	solar system	1975 Sept p 160-173
virology, virus interference, nucleic acid, i		interplanetary radar-ranging, gravity constant, luna	
found to act against foreign nucleic acid		orbit, relativity theory, evidence for decrease	
blood plasma, collagen, cell-surface antig		constant	1976 Feb p 44-52
molecule	1974 May p 78–86 [1295]	interplanetary space, Mars, Mariner 4, magnetosph	
anti-viral agent	1958 Aug p 48	trapped radiation, atmosphere, solar wind, co exploration	1966 May p 62-72
antiviral roles of interferon interferon	1963 Sept p 84 1972 Oct p 47	interstellar chemistry, hydroxyl radical	1964 Nov p 60
interferon induction, poly I C, synthetic RN	_	ammonia molecule detected	1969 Feb p 42
mereron moderion, pory 1°C, symmetic for	1971 July p 26–31 [1226]	water molecule detected	1969 Apr p 50
medical care, virus disease	1977 Apr p 42–50	for maldehyde molecule detected	1969 May p 53
synthetic polymers	1968 Feb p 52	carbon monoxide molecule detected	1970 June p 49
intergalactic bridges, galactic interactions, g	galaxy shapes, intergalactic	hydroxyl radical detected	1971 Sept p 80
tides, gravitational dynamics	1973 Dec p 38-48	ethyl alcohol	1974 Dec p 66
intergalactic tides, galactic interactions, gala		interstellar clouds, Bok globules, gravitational insta	abılıty, ınterstellar
dynamics, intergalactic bridges	1973 Dec p 38-48	dust, stellar formation, local galaxy	977 June p 66-81 [366]
interindustry transactions, input-output ana		interstellar communication, extraterrestrial intellig	ence, origins of life,
inverted coefficient, matrix algebra, 19		planetary systems, cyclops project 19	975 May p 80-89 [347]
economy	1951 Oct p 15–21	Project Ozma Project Ozma	1960 Jan p 74
economics, input-output analysis, US economics input-output analysis, US economics input-output analysis, US economics input-output analysis, US economics in put-output analysis in put-output ana		interstellar dust, light polarization, interstellar gas,	1960 Nov p 97
Department of Commerce input-outpu	1965 Apr p 25–35 [624]	intersterial dust, fight polarization, intersterial gas,	1967 Oct p 106–114
intermediate vector boson, neutrino, cosmic	radiation neutrinos solar	Bok globules, gravitational instability, interstella	r cloude steller
neutrinos, scintillation counter boson,	detection of natural neutrinos	formation, local galaxy	977 June p 66-81 [366]
	1966 Feb p 40-48	interstellar gas, pleiades, stellar evolution, stellar c	luster, mass and
intermetallic compounds, BCS theory, cryst	tal structure, electrical	motion in and of clusters clues to formation	indian, mass and
properties of metals intercalated crys	tals, superconductors, layered	19	62 Nov p 58-66 [285]
superconductors	1971 Nov p 22–33	light polarization, interstellar dust, protostars	1967 Oct p 106-114
intermolecular force, electromagnetism, me	olecular physics, Coulomb	color photography, emission nebulae, ionization	, nebular luminosity
force, measurement of intermolecular bodies			1974 Oct p 34-43
	1960 July p 47–53	black hole, magnetohydrodynamics neutron sta	rs, pulsar, stellar
internal combustion engine, atmospheric en Langen engine, history of Otto engine	ngine, stratified charge, Offo-	evolution, supernovae, X-ray sources	1975 Dec p 38-46
energy transformation, energy demand,	1967 Mar p 102–112	magnetic field, radio 'photographs', Doppler shi and filaments rather than clouds	ft, structured in shells
power, prime movers steam turbines,	magnetohydrodynamics gas	interstellar by drogen, Mella, West, and a start	978 Jan p 74-84 [394]
turbine, fuel cell, solar cells, power, no	uclear nower, comparatu e	interstellar hydrogen, Milky Way, spiral galaxies, r	adio astronomy
efficiencies of energy transformation	pathways in industrial	galaxy, radio astronomy, radio star, the radio sk	1955 May p 42–48
Civilization	1071 Come - 140 160 [660]	spiral structure radio astronomy, galaxy, galacti	1956 July p 32–37
internal drift-tube accelerator, linear accele	erator, electron accelerator,	iocai Gaiaxy	50 Aug - 44 E1 17501
traveling wave accelerator	1054 (200 - 40 44 (224)	radio astronomy, galaxy, spiral arms, mapping il	he spiral arms of the
internal opintes, brain function, drug actic	on, drug addiction,	local Galaxy	1050 Dan - 02 104
endodorphins, enkephalins opiate re		galactic evolution microwaves radio astronomy	, hydrogen in palaries
International Astronomical Union, meetin	1977 Mar p 44–56	correlated with their difficults	1069 to
International cooperation, Atomic I perm	A at	interstellar matter, Palomar Observatory, cosmolog	re madelle feet at 11
Heching minut vectors, increasing	73 000000000000	populations galactic evolution. Hale telescond	, first yield from 200
provisions of Atomic Energy Act of	1954 1954 Nov p 31–35	inch telescope	1952 Feb p 43-51
			-

photocell, light amplification, photomultiplier, variable stars, stellar temperature 1952 Mar p 56-55	plasma jet, jet velocity, cesium-ion beam, magnetohydrodynamics, electrical propulsion, space exploration 1961 Mar p 57-65
nyurogen, radio astronomy. 21-centimeter line 1052 Dog = 42.44	
ultraviolet radiation, cosmic dust grains, hydrogen 1955 Nov p 72-80 spectroscopy, radio astronomy, hydrogen, absorption line, 21-	' ingn-energy physics 1949 Mar n 28-39
centineter wave absorption 1057 tule - 40 55	ionic bonds, covalent bonds, hydrogen bonds, Van der Waals force long
microwaves, maser, hydroxyl radical, infrared astronomy energy levels	range forces, chemical bond, antigen-antibody reaction, proposed
protostars, interferometry 1968 Dec. 25 AA	intermolecular long-range force 1948 Oct p 14-17 solid state physics, crystal structure, X-ray diffraction, covalent bonds,
galaxy structure, Milky Way, stellar formation, supernovae, galactic	metallic bonds, molecular bonds, energy levels, the nature of solids
dust clouds, nebulae, Gum Nebula, Bok globules 1972	1952 Dec p 39-49 [249]
Aug p 48-61 astrochemistry, molecular spectra, space exploration, local galaxy	aluminates, materials technology, ceramics, crystal structure silicates,
1973 Mar n 50-60	heat resistance, covalent bonds, nature of ceramics
cosmology, heavy hydrogen catto, deuterium synthesis,	ionization, lightning thundercloud, physics of the lightning bolt 1949 Feb p 22-27
supernovae, shock waves, gravitational collapse, stellar formation, stellar evolution, birth of massive stars 1978 Apr p 110-118 [3005]	ball lightning, nuclear fusion, gas plasma, Kapitza theory, Hill theory
maser, cosmic masers, hydroxyl maser, water maser, maser star,	1963 Mar p 106-116
astrophysics, quantum mechanics, 'nature imitates art'	ammonia, solvated electrons, radiolysis, radiation chemistry, sodium alkali metals 1967 Feb p 76-83
1978 June n 90-105	color photography, emission nebulae, interstellar gas, nebular
stellar formation, variable stars, infrared radiation, lithium, youngest	luminosity 1974 Oct p 34-43
interstellar radiation, formation of interstellar infrared radiation	ionized-hydrogen cloud, Gum Nebula, Milky Way, Stromgren sphere
1967 Oct p 60	1971 Dec p 20-29 ionizing radiation, photoelectric effect, Compton effect, chemical effects
intracellular parasite, toxoplasmosis, parasitism, infectious disease.	cytology, free radicals, lethal effects of radiation 1951 Dec p 22-25
encephalitis, insect vectors 1953 Feb p 86-92	poisons, radioautography, 'bone-seekers', chelate, scintillation counter
intrauterine device, employed for bovine birth control in India	1955 Aug p 34-39
intravenous feeding, human nutrition, medical care, synthetic diet	mutation, recessive gene 1955 Nov p 58-68 [29] environmental pollution, background radiation, nuclear medicine
1972 May p 73–80	atomic bomb test, introduction to single-topic tissue on ionizing
total nutrition 1971 May p 51	radiation 1959 Sept p 74-83
intuition, geometry, foundations of mathematics, Hans Hahn on	atomic bomb test, isotopes fallout, environmental pollution nuclear medicine, circulation of radioisotopes 1959 Sept p 84-93
geometry and intuition 1954 Apr p 84-91 invariant/variable dyad, verbal communication, communication, acoustic	medicine, circulation of radioisotopes 1959 Sept p 84-77 chromosome breakage, radiation damage, mutation, cytology
formants, phonetics, markedness/unmarkedness dyad, morphemes,	radiation damage to living cell 1959 Sept p 94-100 [57]
syntax, context sensitivity 1972 Sept p 72-80	atomic bomb test, radiation damage, leukenua, immune response,
invention, creativity, industrial research, applied science, solid state	fallout, nuclear medicine, radiation damage, whole-body irradiation 1959 Sept p 117-137
physics, Bell Laboratories solid-state physics 1958 Sept p 116–130 commerce, technology, patent-law reform 1967 June p 19–27	evolution, mutation, radiation-induced mutation in evolution
inversion layer, cloud seeding, water cycle, air pollution, water drop, ice	1959 Sept p 138-160 [55]
crystals, fog, smog 1968 Dec p 74-82 [876]	cancer therapy, isotopes, X-ray, radiotherapy, dosimetry,
inverted coefficient, input-output analysis, interindustry transactions,	roentgenology, nuclear medicine, radiation use in medicine 1959 Sept p 164-176
input-output coefficient, matrix algebra, 1947 input-output table of US economy 1951 Oct p 15-21	free radicals, notymerization, organic chemistry, ignizing radiation in
investment, economic development, Japan, employment policy, debt	industrial chemistry 1939 Sept. p. 1930 Sept
financing, government-business relations, Japan's economic growth	metals, crystal structure, solid state physics, displacement of crystal structure by radiation 1959 Sept p 200-213
1970 Mar p 31-37 Io, Galileo, Jupiter, Jovian satellites, solar system, Europa, Callisto.	environmental pollution, fallout, atomic bomb test, radiation damage
Ganymede 1976 May p 108-116	mutation mubble health hazards of radiation to society
iodine, trace elements, iron, manganese, zinc, copper, magnesium, human	1959 Sept p 219-232 (1214)
nutrition 1953 Jan p 22–25	leukemia, leukocyte, cancer, chemotherapy, tirus, Down's syndrome origin and treatment of lymphocytic and granulocytic leukemia
iodine deficiency, goster, hypothyroidism, epidemiology, thyroid, iodized salt 1971 June p 92-101 [1223]	1964 May p a 750
iodized salt, goster, hypothyroidism, iodine deficiency, epidemiology,	cosmic radiation, nuclear tracks, fission-track dating eithing
thyroid 1971 June p 92–101 [1223]	applications of charged-particle tracks in solids 1969 June p 30-39 fallout, radiation effects on human tissue cells 1957 Jan p 64
ion beam, spectroscopy, mass spectroscopy, separation techniques 1953 Mar p 68-74	no genetic damage threshold 1958 Aug p 45
crystal structure, channeling 1968 Mar p 90-98	ionosphere, upper atmosphere, stratosphere radio communication aurora, noctilucent clouds meteorology 1949 Jan p 30 39
chemical accelerators, molecular beam, sputtering, high-energy	Earth magnetic field lightning, radio 'u histlers' radio echoes of
chemistry 1968 Oct p 44-52 in claud meteories radio echo, spectroscopy 1951 June p 22-28	lightning 1956 Jan p 14 37
ion cloud, meteorites, radio echo, spectroscopy 1951 June p 22-28 ion exchange, alkalı, desalination, amino-acid separation	communication technology, radio, microwave transmission
1950 NOV p 46-31	troposphere, ionospheric and tropospheric scattering 1957 Jan p 46-51
distillation, water, desalination, solar still alternative technologies 1957 Mar p 37-45	climate neather salar and meteorology coronametry Earth's
molecular sieves, adsorption, separation of similar molecules	weather and solar wind 1957 Apr. p. 138–145 15471
1055 000 = 48	solar corona solar prominences, solar flares atmosphere coupling of solar and terrestrial atmospheres 1958 Aug p 33-41
metals from the ocean 1955 Oct p 48 1953 Jan p 36	amfigial satellite, climate, aurora borealis. Van Allen belts orbital
ion exclusion, separation include	motion, meteorology solar particle influence on Larth atmosphere 1959 Aug. p. 37-43 [25]
ion implantation, accelerated for technique, the semiconductor, 'doping'	interferometry, solar system moon planets radar astronom,
ion potential, cell membrane, nerve impulse, biological tole of potential, 1949 Aug. p. 16-21	technology and promise of radir astronomy 1969 Aug. P. 20. 22
to the state of th	Sun, solar eclipse solar flares chromosphere, ultrasiolet radiation Earth Sun chromosphere topic plere interaction
bioluminescence, membrane potential, plant etc. 1962 Oct p 107-117 [136] electricity in plants	Earth Surfentomisphate was prote meeting 19/21 ch p 30 11
ion propulsion, nuclear propulsion, nuclear rocker, space 35, 51	
rocket propulsion by nuclear reactions 1959 Stay p	

aurora borealis, geomagnetism, solar radiation, magnetosphere, solar	irrigation, Nabataean culture, wadı, desert, agrıcultural system,
wind, physics of the aurora 1965 Dec. p. 54-62	restoration of Nabataean irrigation works in the Negev
airglow, atmosphere, solar radiation, ozone, oxygen atoms, upper	1956 Apr p 39–45
atmosphere, laboratory simulation, atomic energy levels	Negev desert, desert ecology, agricultural technology, land reclamation.
1966 Mar p 102–110	Israel, desert reclamation 1960 Mar p 54-63
plasma, solar radiation, Earth magnetic field, geomagnetism, barium	soil erosion, agricultural technology, poverty, economic development,
clouds, magnetosphere, electric field, artificial plasma clouds from	afforestation, Mediterranean Project, United Nations 1960 July p 86-103
rockets 1968 Nov p 80–92	
ionosphere reflection, long-range microwaves 1952 June p 36	economic development, Mekong river, monsoons, floods, hydro- engineering, rice, Mekong river plan, United Nations
ionospheric storms, Sun, solar flares, aurora, sunspots, geomagnetic	1963 Apr p 49–59
storms 1951 Dec p 17–21	economic development, industrialization, water supply, desalination,
solar corona, zodiacal light, Van Allen belts, solar prominences, solar atmosphere Farth in the Sun's atmosphere 1959 Oct p 64-71	water resource management, technology and economics of water in
atmosphere, Easter in the San	economic development 1963 Sept p 92–108
ionospheric winds, Earth, lunar tide, the ionosphere 1955 Sept p 126-138	ground water, artesian well, agricultural technology, Sahara desert,
• •	water resource management, land reclamation, intercalary water,
IQ: intelligence quotient IQ, intelligence, race, whites, heredity, American Negro, heredity,	'fossil' water, making desert fertile 1966 May p 21-29
population genetics, science policy, social psychology, twins,	sea water, salt-water agriculture, agronomy, and lands, salt tolerance
environment, racial discrimination 1970 Oct p 19–29 [1199]	1967 Mar p 89–96
intelligence test, challenged on cultural bias 1970 Nov p 44	ground water, tunneling, aqueducts, Iran, underground system, 3,00
Iran, Middle East oil, petroleum resources, energy economics, Persian	years old, still in use 1968 Apr p 94–105
Gulf fields, economic development, Iraq, Saudi Arabia	Arabia, trade, Near East, frankincense, myrrh, Biblical archeology,
1948 Sept p 9–15	cultures of southern Arabia 1969 Dec p 36-46 [653]
ground water, irrigation, tunneling, aqueducts, underground system,	human population, food production, fertilizers, pollution biosphere,
3.00 years old, still in use 1968 Apr. p 94–105	agricultural revolution, soil erosion, biosphere capacity to produce
Iraq, Middle East oil, petroleum resources, energy economics, Persian	food 1970 Sept p 160–170 [1196]
Gulf fields, economic development, Iran, Saudi Arabia	China, economic development, rice, hybrid wheat, agricultural
1948 Sept p 9–15	technology, hybrid rice, livestock 1975 June p 13–21
iridectomy, vision, glaucoma, blindness, human eye	center-pivot irrigation, ground water, agricultural technology
1959 Aug p 110–117	1976 June p 90–99
iris, eye, rod cells, cone cells, retina, optogram, rhodopsin, camera,	'green revolution', India, food and agriculture, technology transfer, monsoons, fertilizers, rice, agronomy, wheat, hybrid crop plants
anatomy and physiology of the eye, camera as metaphor 1950 Aug p 32-41 [46]	1976 Sept p 154–163
Irish families, cultural patterns, Italian families, schizophrenia,	agricultural resources, gene manipulation, photosynthesis, food and
schizophrenia and culture 1957 Aug. p 103–110	agriculture 1976 Sept p 164–178
Irish potato famine, potato blight, social influence of the potato	drip irrigation, trickle irrigation, agricultural technology
1952 Dec p 50–56	1977 Nov p 62–68 [1371]
iron, trace elements, manganese, zinc, copper, magnesium, iodine, human	Ishango man, cultural anthropology, Mesolithic era, harpoon, African
nutrition 1953 Jan p 22–25	culture 10,000 B C 1962 June p 105–116
magnetism, magnetic domains, cobalt, ferrites 1955 Jan p 68-73	Isimila, Paleolithic culture, stone tools, cultural archeology, Old Stone
Iron Age, Bronze Age, ironworking history, metallurgy, carburizing,	Age site in Africa 1961 Oct p 118–129
quenching 1977 Oct p 122–131 [699]	island arcs, Earth crust continental evolution, volcanoes, sedimentation
Iron age culture, Bronze Age, rock paintings, Camunian culture,	origin of the continents 1955 Sept p 62–66 [816]
Mycenaean civilization, Italian rock carvings 1960 Jan p 52–59	continental drift, remanent magnetism, plate tectonics, ocean floor,
fron melting, direct-reduction processes fron ore, sponge fron, steel production 1976 July p 68–80	Wegener hypothesis re-stated with new evidence, age of rocks
production 1976 July p 68-80 iron-nickel alloy, Earth core, high-pressure technology, X-ray diffraction,	1963 Apr p 86–100 [868] earthquake zones, lithospheric subduction, mountain formation, plate
crystallography, core studies by analogy, diffraction patterns of iron	tectonics, sea-floor spreading, subduction zones, volcanic zones
alloys 1965 June p 100–108	1975 Nov p 88–98 [919]
iron-nickel phases, diamond, meteorites, Canyon Diablo meteorite, shock	domes, hot spots, plate tectonics, ocean rifts, plumes, volcanoes
hypothesis, asteroids, origin of meteorites 1965 Oct p 26-36	1976 Aug. p 46–57 [920]
iron ore, steel production, blast furnace, smelting, furnace smelting under	island chains, West Indies, New World archeology, Hispaniola, stone
pressure 1948 May p 54-57	artifacts, sea routes, seafaring hunters from Central America?
steel production, Labrador deposit 1948 Nov p 9-13	1969 Nov p 42–52 [652]
coal reserves, steel markets transportation, changing geography of steel	isobutane, ice crystals, desalination, sea-water freezing, heat of fusion,
1952 Jan p 44–53	freezing as alternative to distillation 1962 Dec p 41-47
mining, ore beneficiation low-grade ores, hematite, tacomite 1968 Jan p 28~35	isomerism, isotopes, bulk effect, organic chemistry, paths of atoms in chemical reactions 1957 Nov. p. 117-126 1851
direct-reduction processes from melting, sponge from steel production	
1976 July p 68–80	vision, visual pigments, opsin rhodopsin, vitamin A
Soviet magnetite fields 1960 Oct p 84	1967 June p 64-76 [1075] isoniazid, isotopes, tuberculosis, streptomycin, para-aminosalicylic acid
iron smelting, coal technology, technology history. Industrial Revolution	pharmacology, tracing action of TB drugs 1956 Nov p 135-144
blast furnace Newcomen engine 1974 Aug. p. 92-97	isoprene, butadiene, rubber synthesis, vulcanization latex, elastomers
ironworking history, Bronze Age, Iron Age, metallurgy, carburizing,	synthetic rubber, molecular structure 1956 Nov. p. 74-88
quenching 1977 Oct p 122–131 [699]	isostasis, Earth crust, mountain formation, granitization, ocean basins
Iroquois Confederacy, Amerindian, New World archeology, cannibalism	ocean Hoor, tectonic processes comprehensive review of
Onandaga tribe 1971 Feb p 32–42 [658] irradiated plastics, cross-linking improved 1954 Aug p 40	understanding (before acceptance of continental drift)
irradiated seaten by deeped at	1950 Max p. 32-41
irradiation standards, electromagnetic spectrum, microu ave dioxles	isostatic equilibrium, Earth mantle plastic zone, seismology, basalt,
microwave radiation risk estimation technology assessment	Mohorovicie discontinuity, plastic zone at depth between 37 and 155 miles
1072 Feb m 12 21	isotactic polymers, polymers, 'stereoregular' polymers polyethylene
irrational numbers, mathematics number theory, negative numbers	catalytic polymerization polypropylene, precisely constructed
Complex numbers mains 1004 cont = 50 co	1001 4 33 44 44.44
irregular galaxies, galactic evolution, universe, galactic clusters, irregular galaxies as clues to galactic evolution 1961 Feb p. 50–57	isothermal combustion, Carnot cycle Diesel engine, automobile engines
g indeed aveides to galactic evolution 1961 Feb p 50-57	Diesel's 'rational' engine 1969 Aug. p 108–117
	111-111

isotope dating, lead isotopes, radioisotope dating, strontium-rubidium	Japan, pottery, human migration, navigation, Ecuador, New World
ratios, geological and paleontological time dated by radioactive decay 1949 Aug p 48-	archeology, evidence for 3,000 B.C. trans-Pacific contact
ocean moor, sonar, seismology, sedimentary cores, Albatross voyage,	Ama, diving diving women Vores broothing business to the
Swedish deep-sea expedition 1950 Aug p 42- radioactive decay, solar system, meteorites, Earth crust, age of solar	basal metabolism, adaptation 1967 May p. 34-43
system 1957 Apr n 80.04 lie	economic development, employment policy, investment, debt
mantie rock dating by strontium isotope 1965 Mar n	financing, government-business relations, Japan's economic growth 1970 Mar p 31-37
isotope separation, gas separation, laser, laser-light pressure, radiation pressure, 'optical bottle', atomic and molecular beams	Japanese macaques, primate behavior, monkey, primate societies,
1977 Feb n 62.1	protocultural behavior, social status 1976 Oct p 96-106 [1345]
laser-excitation technique, light absorption, quantum mechanics,	1976 Israe a St
uranium enrichment 1977 Feb p 86-98 [35 isotope tracing, duck-billed platypus, lactogenesis, milk, mammal,	4] Jarmo site, agricultural revolution, radiocarbon dating archeology, case
synthesis of milk 1957 Oct p. 121 15	to village at Jarmo 1952 Oct p 62-66
isotopes, radioautography, molecular biology, cytology, use of	Homo erectus in family tree of H samens 1966 Nov p 46-53 600
radioisotopes in biological research A E C, U S Atomic Energy Commission makes isotopes available,	jawless fish, lamprey, pest control, Great Lakes, trout, whitelish
free, to cancer research 1949 Apr. n. 16-1	7 jazz musicians, strong sub-culture 1955 Apr p 36-41
periodic table, 'synthetic' elements, transuranium elements, table of	Jericha, Neolithic archeology, Biblical archeology, 'world's oldest cit'
elements, stable isotopes, first of a series of articles, recounting the completion of the table of elements (43 [technetium],	1954 Apr p 76-82
61[promethium], 85[astatine] and 87[francium]) and the first five	world's oldest town 1952 No. p. 48 Biblical archeology, oldest city 1956 No. p. 68
transuranic elements (93[neptunium], 94[plutonium], 95[americium],	Biblical archeology, from cave to village 1957 Sept p 116
96[curium] and 97[berkelium]) 1950 Apr p 38-47 [242 fission products, uses in science and technology 1952 June p 19-2	
thermonuclear reaction, element abundance, stellar evolution, universe	jet engines, zirconium, fission reactor, ilmenite 1951 June p 18-21
'synthetic' elements, particle accelerator, experimental astrophysics	jet flight, aerodynamics, aircraft-wake vortexes, contrails, flight safett
1956 Sept p 82-91 isomazid, tuberculosis, streptomycin, para-aminosalicylic acid,	
pharmacology, tracing action of TB drugs 1956 Nov p 135-144	time-zone effects 1969 Aug p 57
isomerism, bulk effect, organic chemistry, paths of atoms in chemical	iet liner. British Comet 1952 Aug p 33
reactions 1957 Nov p 117-126 [85] atomic bomb test, ionizing radiation, fallout, environmental pollution,	cycle polar front 1952 Oct p 26-31
nuclear medicine, circulation of radioisotopes 1959 Sept p 84-93	weather forecasting, long-wave forecasting 1955 Aug p 40-41
cancer therapy, X-ray, radiotherapy, ionizing radiation, dosimetry,	weather, thunderstorms, wind, squall lines, low-altitude jet streams 1961 Aug p 120-131
roentgenology, nuclear medicine, radiation use in medicine 1959 Sept p 164-176	iet velocity, 100 propulsion, plasma iet, cesium-ion beam,
ascites tumor, radioautography, cell life cycle, cellular autobiography	magnetohydrodynamics, electrical propulsion, space exploration
1963 Aug p 103-110 [165] alpha decay, transuranum elements, nuclear stability, beta decay,	incular physics, human language physics, broken English tribute to
radioactive decay, 'synthetic' elements, periodic table, the	Niele Pohr 1956 Mar P 75-10-
'superheavy' elements beyond 103 1969 Apr p 56-67	Jodrell Bank radio telescope, flare stars, radio astronomy, radio star solar flares, definitive evidence of radiowaves from stars
elements, radioactive decay, atomic nucleus, 'synthetic' elements, exotic isotopes of light elements 1978 June p 60-72 [3010]	1964 Aug p 15-17
Federation of American Scientists proposal 1949 Apr p 24	Johnson, melancholy hypochondriac 1951 June p 38
British exports ahead 1952 Dec p 38 labeled cortisone 1953 Aug p 46	Jordan Valley Plan, agricultural irrigation, canals hydro-engineering pipelines, water supply, Israel, Jordan 1965 Mar p 23-31
uses in medicine 1956 Sept p 111	Inconhect affects electric current superconductivity microwave
uses in agriculture and industry 1957 July p 64 isotropy, uranium lission, nuclear fission, fission products, 'synthetic'	emission tunnel junction, quantum mechanics confirmation and applications of Josephson effects 1966 May p 30 39
elements, radium, transuranium elements, science history, discovery	coherent matter waves 1965 June p of
of fission 1958 Feb p 76–84	Joshua trees, desert ecology mesquite creosote bushes 1955 Apr p 68-75 [114]
cosmology, universe expansion, cosmic background radiation, 'big bang' theory, low-energy radiowaves, primeval fireball, helium	Toute Corner Dumford coveres bistory heat moneers in the theory of
abundance, 'big bang' theory and cosmic background radiation	heat 1954 Sept p 66 61 journal bearing, bearing lubrication friction wear 1975 July p 50 64
1967 June p 28-37 Israel, comparative religion, ethnic groups, gene isolation, Judaism,	for the material funday planeters atmosphere planets solar system
Samantans Holon and Nablus communities	Great Red Spot Jovian moons, Great Red Spot liquid planets atmospheric creditation 1876 Mar. p. 46-56
1977 Jan p 100-108 [690] Italian families, cultural patterns, Irish families, schizophrenia,	Juniter, solar system 1975 Sept. p. 110 32
• • •	Jovian satellites, Galileo Jupiter solar system Turopa Callisto
Italy, Greek civilization, Cumae, Classical archeology, offic B C Greek	Indesem blood typing racial discrimination religious persecution seed
colony first in Italy	evolution genetic drift population genetics Jewish community
_	David San corolle New Covenanters, Richley I archeology, Outstan 115
/	1971 Nov p 14 C
January no particle charm	comparative religion ethnic groups pene institution Israel Samaritans
J particle, antimatter, electron-positron annihilation, psi particle, charm color, quark, high-energy physics, storage rings virtual particles 1975 June p 50-62	Holon and Nablus communities 1977 In p. 103 102 [6 8] junction diode, light emitting diode semicorductive liver electron from
color, quark, high-energy physics, storage man 1975 June p 50-62	and of the former and the first the state of
hadrons heavy leptons high-energy physics, quantum mechanics quark hypothesis intermediate vector bosons 1976 Jan p 44-54 1975 Jan p 48	Junction diode amplifiers, amplifiers sound reproduction transitor electronic circuitry pre
massive, long-lived puzzle	tomorphism termines termines a such amount to be electrical as a file
massive, long-lived puzzle Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra code, Boolean algebr	technology force at the tend in name of the start for the first force at the tend in name of the start for the first force at the start force at t
Highly 4. Marries and the	

, , ,

germanium crystal, 'doping', triode 1952 July p 28–32	Kepler, musical scale, tone ladder, Pythagorean doctrine, music and
upiter, imme radical, hydrazine radical, frozen free radicals, low	mathematics, harmonic proportions, vibrating string
temperature physics modelling of Jupiter 1956 June p 119–128	1967 Dec p 92–103
Venus, solar system, planets, radio astronomy, measuring planetary	Kepler crater, lunar luminescence, moon, solar radiation, solar flares,
surface temperature 1961 May p 58-65	meteorites, impact of solar protons? 1965 May p 28–37 Kenler's laws, planetary motion, science history 1972 Mar p 92–106
Van Allen belts, radio emissions, magnetic field, origin of Jovian radio	Kepler's laws, planetary motion, science history 1972 Mar p 92–106 Kepler's supernova, supernovae, Chinese starcharts, Tycho's supernova,
waves 1964 July p 34-42	'guest stars', the seven observed supernovae 1976 June p 100–107
extraterrestrial life, infrared astronomy, Venus, atmospheric windows,	keratin, flagella, contractile proteins, myosin, epidermis, 'k m e f' group,
Mars, moon, spectrometry, history and recent results of infrared astronomy 1965 Aug p 20–29	motility in bacteria 1951 Jan p 20–24
astronomy Taylor column, Great Red Spot, planetary atmosphere, rotation	collagen, elastin, myosin, fibrin, cell, polymers, polymers in living cells
period, hydrodynamic explanation vs. raft hypothesis	1957 Sept p 204-216 [35]
1968 Feb p 74–82	evolution, horn, antler, osteogenesis, bone, ungulates, differences
Great Red Spot, liquid planets, Jovian moons, atmospheric circulation,	between horns and antlers 1969 Apr p 114–122 [1139]
solar system 1975 Sept. p. 118–126	X-ray diffraction, protein structure, alpha keratin, feather keratin
Jovian meteorology, planetary atmosphere, planets, solar system, Great	1969 Aug p 86–96 [1155]
Red Spot 1976 Mar p 46–30	heratin myosin epidermis flagella, see k m e f
Galileo, Jovian satellites, solar system, Europa, Callisto, Ganymede, Io	kerato-conjunctivitis, herpes simplex, treatment 1962 Apr p 80 Kerr cell, high-speed photography 1949 June p 48–49
1976 May p 108–110	Kerr cell, high-speed photography 1949 June p 48–49 Kerr effect, communication technology, laser, pulse-code modulation,
radio emissions 1955 June p 50	electron optics, Pockel's effect, polarization, modulators, modulation
Jovian Van Allen belt calculations 1960 July p 81 report from Pioneer 10 mission 1974 Feb p 42	of laser light 1968 June p 17–23
report from Pioneer 10 mission 1974 Feb p 42 jurisdictional disputes, pollution control, international cooperation,	Kerr gate, laser mode-locking, molecular motion, quantum mechanics,
oceanography, resource management, international competition and	Raman clock, ultrafast phenomena, picosecond molecular processes
cooperation 1969 Sept p 218–234 [888]	1973 June p 42–60
jury trial, crime, eye-witness testimony, perception, memory	kibbutz marriage patterns, exclude 'brothers' and 'sisters'
1974 Dec p 23–31 [562]	1972 Dec p 43
juvenile delinquency, its genesis 1950 Dec p 28	kidney, counter-current exchange, urine, nephron, glomerulus, osmosis,
by contagion from parents 1954 June p 50	anatomy and physiology of the kidney 1953 Jan p 40–48 [37]
personality of delinquent 1956 Aug p 57	desert rat, water balance, oxidation of food, how banner-tailed kangaroo rat survives without water 1953 July p 73-78 [1050]
juvenile hormone, insect metamorphosis, larvae, pupa, demonstration of hormonal control in silkworm moth 1950 Apr p 24-28	diabetes insipidus, thirst, salt excretion, electrolyte balance,
hormonal control in silkworm moth 1950 Apr p 24-28 entomology, silkworm, insect metamorphosis, hormone arrests	thermoregulation, urine, physiological psychology, osmoreceptor
development 1958 Feb p 67–74	theory of thirst, Cannon 'dry mouth' theory 1956 Jan p 70–76
insect metamorphosis, tissue differentiation, cellular specialization in	artificial kidney, dialysis 1961 July p 56-64
insect development 1959 Feb p 100–110 [63]	counter-current exchange, rete mirabile, heat conservation, physiology,
insecticide, balsam-fir factor, insect hormones, insecticide resistance,	swim bladder, gill, physics of a physiological invention
species specificity, DDT, third-generation pesticides	1957 Apr. p 96
1967 July p 13–17 [1078]	kidney calculi, crystal structure, lithiasis, X-ray diffraction, bladder
insect physiology, balsam fir factor 1965 Oct p 39 ecdysone synthesized 1966 May p 52	stones, gallstones, urinary calculi 1968 Dec p 104-111 kidney disorder, stress, psychosomatic illness, alarm reaction,
ecdysone synthesized 1966 May p 52	cardiovascular disease, adrenal gland 1949 Mar p 20–23 [4]
	anemia, brain damage, environmental toxins, blood disorders, lead
\mathcal{U}	poisoning, nerve disorders 1971 Feb p 15-23 [1211]
K	kidney function, angiotensin, hypertension, human physiology, isolation
	of angiotension 1959 Mar p 54-58
Kaiser health plan, national health insurance, medical care, medical	comparative psychology, desert adaptation, salt-water balance,
technology, multiphasic screening, H M O, screening out the 'worned well' 1970 Apr p 15-23	thermoregulation, man camel comparison 1959 Dec p 140-151 [1096]
medical care financing, H M O, Medicaid, Medicare, medical	behavioral adaptation, ground squirrels, Mojave desert, animal
technology, national health insurance 1973 Sept p 169–175	behavior, thermoregulation, desert adaptation, desert mammals'
Kaiser Wilhelm Institute, replaced by Max Planck Society	adaptations to heat and aridity 1961 Nov p 107-116
1948 July p 31	kidney machine, dialysis, heart-lung machine, surgery
Kalinga prize, to Julian Huxley 1953 Sept p 74	1954 Aug p 24–27
to Kaempsfert 1954 Aug p 38 to Gamow 1956 Dec p 52	kidney transplant, bone marrow transplantation, immune response,
to Bertrand Russell 1958 Apr p 48	radiotherapy, circumventing immune response 1959 Oct p 57-63 artificial heart, heart transplant, immunosupression, organ transplant,
Arches of Science Award, to Warren Weaver 1965 Nov p 48	mechanical heart implant 1965 Nov p 38–46 [1023]
kallidin, kınıns, peptides, venom, inflammation, bradykının, globulin,	kidney tubule, sodium pump, membrane potential, active transport, cell
local hormones, production and distribution	membrane, biological pumps 1962 Aug p 100–108
1962 Aug p 111–118 [132]	killer bees, bee, reputation inflated 1976 Jan p 63
Kanawha river, fossil river, Teays river 1952 June p 74-80	killer whale, docile in captivity 1966 Nov. p. 72
kangaroos, animal behavior, hopping energetics, mammalian evolution, marsupial 1977 Aug p 78–89 [1366]	kiln, fire-making, human evolution, fire vegetation, cooking, Neolithic
kaolin purification, high-gradient magnetic separation, magnetic	revolution, furnace, heat, introduction to single-topic issue on heat
separation, separation techniques, wastewater punification	l 1954 Sept p 52-57 kilomegacycle waves, ultrasonics, sound waves, acoustic waves at optical
1975 Nov. p. 46-54	Watelength 1063 lune n 60 60
kaonie atoms, atomie nucleus, atomie structure, exotic atoms, muonie	kimberite pipes, diamond, plumes, Earth mantle, volcanic emption
atoms, particle accelerator, pions, quantum mechanics, high-energy physics 1972 Nov. p. 102-110	genesis of kimberlite pines 1978 Apr n 120 122 10211
Karatepe citadel, Hittites, Phoenician script 1972 Nov p 102–110	kimperiites, Earth mantle, meteorite composition, plate tectorics, seismic
Karimojong, animal husbandry, cattle, subsistence herding. Uganda	waves, plumes, Earth dynamics 1975 Mar p 50-63 [915] kinesthetic memory, spatial orientation, visual perception
1969 Feb p 76-89	neuropsychology, perception of the upright
Kents, as medical student 1973 June p 40	1050 Eab = 50 56 (410)
kelp, algue, phytoplankton, food chain, algin, agar 1952 Dec p 15-17	conditioned behavior, learning, behavioral psychology, place-learning
	1963 Oct p 116-122 [479]

1960 Dec p 75

sensory perception, spatial orientation, sensory feedback, plasticity in krypton 86, international time standard sensory-motor systems in man and cats 1965 Nov p 84-94 [494] Kuany ama Ambo, anthropology, social controls, murder, monarchy King's Broad Arrow, white pine, North American forests, Royal Navy, 1950 Oct p 52-55 American Revolution, colonial building 1948 June p 48-53 Kung bushmen, baboons, human evolution social behavior, comparative kinins, peptides, kallidin, venom, inflammation, bradykinin, globulin, psychology, social anthropology, sexual behavior, origin of society local hormones, production and distribution 1960 Sept p 76-87 [602] 1962 Aug p 111-118 [132] kuru, brain disease, scrapie, Chediak-Higashi syndrome, virus disease, kinship, Ashanti, Tallensi, social anthropology, extended family, social animal vectors, multiple sclerosis 1967 Jan p 110-116 structure, social psychology, primitive Tallensian and Ashantian degenerative diseases, immune system, slow virus infection, virus 1959 June p 146-158 disease, scrapie, cancer virus, herpes virus 1974 Feb p 32-40 [1289] Kirlian photography, analyzed 1976 Dec p 53 kwashiorkor, malnutrition, diet, food supply, human nutrition kittens, animal behavior, developmental psychology, homing behavior, 1954 Dec p 46-50 learning, suckling 1972 Dec p 18-25 [552] diet, fasting, human nutrition, metabolism, starvation, marasmus, Klamath weed, weed control, insect herbivores, agricultural technology, physiology of starvation 1971 Oct p 14-21 [1232] leaf-eating beetle, living herbicides 1957 July p 56-67 Klein bottle, topology, inner-tube eversion, Mobius band, trefoil knot, Koenigsberg bridges, four-color-map problem, three-cottages problem 1950 Jan p 18-24 Klein theory, antimatter, Leidenfrost phenomenon, Zeeman effect, highenergy physics, cosmology, high-energy physics and cosmology labor capability, man-day, muscle power, 'scientific management' 1967 Apr p 106-114 [311] 1971 Oct p 96-103 Klinefelter's syndrome, Down's syndrome, chromosomal anomalies. 1955 July p 33-35 labor cost, productivity, mechanization, capital cost trisomy 21, genetic defect, meiosis, mitosis, gene translocation, labor force, productivity, production workers, service workers nondisjunction, afflictions associated with abnormal chromosome 1951 Sept p 36-41 complement 1961 Nov p 66-76 [150] engineering manpower, employment by industry, disciplinary Barr body, sex differences, chromosome, genetic mosaic, cytology, 1951 Sept p 65-65 distribution Turner's syndrome, chromosomal anomalies, sex differences in tissue science manpower, disciplinary distribution, employment by sector 1951 Sept p 71-76 1963 July p 54-62 [161] klystron, microwaves, optical properties, Maxwell's equations, travelingproductivity, capital-output ratio, automatic control, economic and 1952 Sept p 150-160 wave tube, magnetron, waveguides, communication, radar social impact of automatic control 1952 Aug p 43-51 education, US population, age-sex distribution, demographics, gross national product, US census, more from the US census of 1960 microwaves, radar, particle accelerator 1954 Mar p 84-90 1962 Oct p 10-37 microwaves, molecular rotation, spectroscopy, laboratory applications automatic control, economics, technology, input-output analysis, US of microwaves 1957 May p 46-53 impact of technological change, 1947-1958, input-output tables klystron giant, 15mW pulses 1952 Nov p 42 1966 Apr p 25-31 [629] klystron tube, electron accelerator, linear accelerator, Stanford Linear developed countries, sex role, human population women's status Accelerator Center, two-mile Stanford Linear Accelerator 1974 Sept p 136-147 1961 Nov p 49-57 [322] employment levels, manpower policy, US economy, women in labor k.m.e.f.: keratın myosın epidermis flagella 1977 Nov p 43-51 [701] 'k.m.e.f.' group, flagella, contractile proteins, keratin, myosin, epidermis, force, job creation vs job quality 1963 Sept p 82 motility in bacteria 1951 Jan p 20-24 2.7 million in science and technology 1969 Apr p 48 US. a service economy knee joint, surgical prosthesis, human anatomy, surgical replacement of labor-saving devices, robot, assembly computer applications, 1978 Jan p 44-51 [1378] the knee joint manufacturing productivity programmable robot for product 'knock', automobile engines, high compression, combustion chamber 1978 Feb p 62-74 [929] design, high-octane fuel, mechanical vs chemical solutions for assembly laboratory animals, pig comparative physiology, small pig as premature combustion 1950 Feb p 16-19 experimental animal, resemblance to man knot-tying fish, cardiac function, hagfish, comparative psychology, 1966 June p 94-100 [1045] 1966 Feb p 82-90 [1035] cyclosomes, hermaphrodite laboratory services, medical care, community hospital, medical center knots, mathematics, geometry, topology, quinary system, decimal system, general practitioner, medical specialist, Bingham plan, organization tessellation, primitive mathematics 1948 Dec p 44-49 1948 Oct p 7-13 Koenigsberg bridges, topology, inner-tube eversion, Mobius band, Klein of medical technology Labrador, Amerindian, New World archeology, burial mounds bottle, trefoil knot, four-color-map problem, three-cottages problem 1976 Nov p 122-129 1950 Jan p 18-24 1948 Nov p 9 13 Euler, topology, essay by Leonard Euler on the Koenigsberg bridges Labrador deposit, steel production, iron ore fac repressor, phagocytosis gene expression repressor molecules 1953 July p 66-71 operator-repressor system lambda repressor, isolation of two gene mathematics, mnemonics, salesman's route, delight and depth in 1970 June p 36-44 [1171] repressors, how they work 1961 May p 148-158 mathematics lacrimal gland, hypothalamus, tears nerve impulse, reflex, psychogenic algorithms, computer science, undecidable questions, polynomial-time 1964 Oct p 75 4 problems, exponential-time problems, efficiency of algorithms and continuous tears lactic acid formation, ATP, muscle, glycolysis aerobic metabolism 1978 Jan p 96-109 [395] oxygen debt, aerobic metabolism, an ierobic metabolism, energy Korea, Ama, diving diving women, Japan, breathing human physiology, 1972 Mar p 84 91 [1244] 1967 May p 34-43 mechanisms in muscle basal metabolism, adaptation factic acidosis, anxiety neurosis, adrenalin, biochemistry of anxiety kraft process, forest products wood pulp, paper, cellulose, lignin rayon, 1900 1 ch p (9 75 [521] 1974 Apr p 52-62 waste recycling factogenesis, duck-billed platypus isotope tracing milk mimmil Krakatoa, volcanic eruption, plant succession, ecology 1957 Oct p 121 121 1949 Sept p 52-54 synthesis of milk milk, mammary gland casein hormonal action cell secretion 1952 Jan p 40 krebiozen, Dr Ivy unfrocked 19/9 Joh p 28 f. composition and synthesis of coa's milk 1953 Sept p 72 'Red' Grange fires Stoddard lactose tolerance, enzyme deficiency, genetic discree milk sur ir milk 1963 Oct p 54 direction problem 1972 Oct p. 70.7+ f12% Lake Amanilan, Missa cisilizati m underwiter archech s., 200 ft. krill, blue whale sonar, food chun, whaling, natural history of the largest creatine hydrate 1956 Dec p 46 50 1959 Mir p. 104 113 food chun plankton, whale, Antarctic convergence Luphausia anımal Guntemala take-duellers', Paleol it culture securities to metal in Constitute [954 Jan p 84-47[457] Antiretica oceanography marine biology, food chain blue whale dael'ers "lake gas", as fort I she know ecology, Antarctic convergence hiological presuree ("Antarct 19/2 Sept p 15/ 210 Lamarck, I's mic am a gital Frenche to the treate converger-e krypton 85, inclustrial application

orthodoxy, Darwinism, experiments in acquired characteristics 1953 Dec p 92-99	communication, human evolution, speech, origin of speech 1960 Sept p 88-96 [603]
mbda decay, time reversal, symmetry, parity, charge conservation, CPT	computer translation, computer study of structure of language 1962 June p 68-76
conservation, proton spin, experiments in time reversal 1969 Oct p 88-101	brain hemispheres, cerebral dominance, perception, split-brain
imbda hyperon, particle physics, hyperons, hypernuclei	experiments, corpus callosum, intelligence, localization of brain
1962 Jan p 50-56	function 1967 Aug p 24–29 [508]
imbda repressor, phagocytosis, gene expression, repressor molecules,	bilingualism, communication, reading, information processing,
operator-repressor system, lac repressor, isolation of two gene	learning 1968 Mar p 78-86 aphasia, brain damage, Broca's area, speech disorders
repressors, how they work 1970 June p 36-44 [1179]	1972 Apr p 76–83 [1246]
aminar flow, boundary layer, airfoil, turbulence, aerodynamics	visual perception, bilingualism, dyslexia, eye movement, grammatical
heat, propulsion, energy transformation, aerothermodynamics,	relations, reading, perception of words 1972 July p 84-91 [545]
turbulence, high temperatures propulsion 1954 Sept p 120-131	communication technology, cybernetics, information theory, machine
fish, swimming, turbulence, purpoises, how fishes and sea-going	communication, communication, introduction to single-topic issue on communication 1972 Sept p 30-41 [677]
mammals swim 1957 Aug p 48-54 [1113] ammergeier, alpine environment, cushion plant, pinks, Himalayan	information theory, painting, sculpture, architecture, visual
mountain ecology 1961 Oct p 68–78	communication, communication, trademarks, visual stimulus, visual
lampbrush' chromosome, cell differentiation, tissue specialization,	signals 1972 Sept p 82-96 [548]
embryonic development, zygote, fertilization, ovum, clone, cytology,	child development, communication, social speech
how cells specialize 1961 Sept p 124-140 lamprey, jawless fish, pest control, Great Lakes, trout, whitefish	1977 Feb p 100–105 [576] language diffusion, Africa, Bantu language, Early Iron Age culture,
1955 Apr p 36-41	linguistics 1977 Apr p 106–114
land animals, fossil fish, coelocanth, evolution 1955 Dec p 34-39 [831]	language of science, English or German 1956 Apr p 71
land management, land use, grazing, forestry, rangeland, agricultural	language organization, grammar, linguistics, speech errors, spoonerisms,
resources, U.S. Western states 1970 Feb p 88–96 [1169]	syntactic rules 1973 Dec p 110-117 [556] Laplace, politics, cosmology, physics, life and work of Pierre Simon de
land ownership, land use, urban planning, Stockholm, cities, urban renewal, Stockholm as a planned city 1965 Sept p 106-115	Laplace 1954 June p 76–81
urban planning, Ciudad Guyana, cities, economic geography, highway	large-scale integrated circuits, computer memory, integrated circuits,
engineering, a model city in Venezuela 1965 Sept p 122-132	metal oxide semiconductors, microelectronics, logic circuits,
land reclamation, trace elements, cobalt, desert ecology, vitamin B12	transistor 1970 Feb p 22-31 integrated circuits, photolithographic techniques, manufacture of
synthesis, agricultural technology, reclamation of infertile Austrialian land 1959 Jan p 97-106	integrated circuits 1977 Sept p 110–128 [377]
Negev desert, irrigation, desert ecology, agricultural technology, Israel,	binary arithmetic, Boolean logic, integrated circuits, logic elements,
desert reclamation 1960 Mar p 54-63	microelectronics 1977 Sept p 82–106 [376]
irrigation, ground water, artesian well, agricultural technology, Sahara desert, water resource management, intercalary water, 'fossil' water,	larvae, insect metamorphosis, juvenile hormone, pupa, demonstration of hormonal control in silkworm moth 1950 Apr p 24-28
making desert fertile 1966 May p 21–29	alkaloids, butterfly, symbiosis, insect repellants, behavioral adaptation,
coal mining, strip-mining 1975 Dec p 23–29	plant evolution, mimicry, butterfly-plant association
strip-mining 1974 Aug p 48	1967 June p 104–113 [1076]
land reform, agricultural technology, food supply, population growth, FAO, human nutrition, FAO Indicative World Plan	mosquitoes, yellow fever, sexual behavior, reproduction, eggs, Aedes Aegypti 1968 Apr p 108-116
1970 Aug p 54-69 [1186]	cell culture, cell differentiation, fruit fly, transdetermination
land subsidence, petroleum extraction, water injection	1968 Nov p 110–120 [1127]
California oilfield 1950 Jan p 30	larynx, music, voice, singing voice, pharynx, acoustics of singing voice
land use, urban planning, Stockholm, cities, land ownership, urban	1977 Mar p 82-91 Lascaux, cave art, cave paintings, Paleolithic archeology, sculpture.
renewal, Stockholm as a planned city 1965 Sept p 106-115	Altamira 1968 Feb p 58-72
housing, population density, shantytowns, taxation, government	laser: light amplification by stimulated emission of radiation
regulation, urban planning, cities, control of land use 1965 Sept p 150-160	laser, maser, coherent radiation, stimulated emission, first lasers as 'optical masers' 1961 June p 52-61 [274]
shantytowns, squatters, urban sociology, housing, 'barriadas' of Lima,	crystallography, light refraction, nonlinear optics, light interactions,
Peru 1967 Oct p 21–29	ultraviolet radiation, photon 1964 Apr p. 38-49
grazing, forestry, rangeland, agricultural resources, land management, US Western states 1970 Feb p 88-96 [1169]	holography, wave-front reconstruction, interferometry, lensless laser photography 1965 June p 24-35 [300]
landslide, clay, quick clay, formation and properties of quick clay	communication technology, signal transmission, multiplexing signal
1963 Nov p 132–142	transmission by laser 1966 Jan p. 19–27 (302)
Langmuir trough, muscle contraction, artificial muscle, ATP, actinomyosin, muscle relaxation 1952 Dec p 18-21	chemical laser, infrared radiation, chemical pumping
actinomyosin, muscle relaxation 1952 Dec p 18-21 language, infant speech, learning, communication, meaningful	1966 Apr p 32-39 [303] light-emitting diode, semiconductor, electron beam, junction diode,
consistencies in infant babble 1949 Sept p 22–24 [417]	solid-state lasers 1967 May p. 108-122
speech, dialects, American languages, linguistics, changes in U S speech 1950 Jan p. 48-51	iiquid lasers rare earth ions, solvation shell, chelate cage, comparison
speech 1950 Jan p 48-51 humor, physics, jocular physics, broken English, tribute to Niels Bohr	of liquid, gas and solid-state lasers 1967 June p 80-90 spectroscopy, materials technology, color, photoelectric effect,
1956 Mar n 93–102	transparency, optical properties of materials 1967 Sept. p. 238-248
Polynesian culture, cultural evolution, tools, settlement of South Sea	holography, microscopy, white-light reconstruction, color holography
Islands, origin of Polynesians 1956 Aug p 58-72 agricultural production, poverty, education, economic development,	1968 Feb n 40 40
Peru, literacy, Cornell-Peru experiment in economic development	crystal structure, phase memory, photon echoes nuclear-spin echo
1957 Jan n 37-45	communication technology, pulse-code modulation, electron optics,
Canary Islands, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111-118	Refrese Pocker's effect, polarization modulators, modulation of
evolution, intelligence, learning, memory, imagery, experimental	laser light 1968 June p 17–23 carbon dioxide, infrared radiation, nitrogen, gas laser, physics of
psychology, learning in man and animals 1957 June p. 140–150	1000 A
artificial intelligence, Loglan, linguistics, 'language of logic'	option communication, nolography, surveying welding light losses
1960 June p 53-63	technology 1968 Sept p 140–156

earthquake prediction, strain gauge, interferomet	ry. Earth crust	Internals soil structure characters and the
microsurgery, cell, physiology, laser lesions, cell o	1060 Dag = 00 g	the soils of the world and
1970	Feb n 08, 110 11170	
computer graphics, integrated circuits, computer	technology, computer	metal whisters
modering, programs, logic of displays	1970 June a 86 0	1960 July p 64-72 crystal structure, lattice dislocations observed 1961 Oct. p 107-116
coated optics, optical interference coatings, light i	reflection, light	alloys, materials technology, metals, crystal structure, grain boundanes.
transmission, dielectric mirrors, interferometry carrier-wave generator, communication technolog	1970 Dec p 58-75	dislocations, electron 'gas', nature of metals 1967 Sept p 90-100
diode laser, heterostructure lasers, light-emittin	r, crystai structure,	laughter, psychoanalysis, humor, psychiatry, psychosis Freudian
solia-state electronics	1971 July n 32,40	interpretation of humor 1956 Feb p 31-35 [45]
gas separation, laser-light pressure, radiation press	sure isotone	
separation, 'optical bottle', atomic and moleculi	ar beams	Laurasia, continental drift, glaciation, Gondwanaland paleomagnetism, Glossopteris, sea-floor spreading, supercontinents, plate tectorics
	1972 Feb n 62-71	mantenantal duck Fr 1 2010 4 19 (1)(018)
communication technology, fiber optics, light pipe	, light-emitting diode	Confinental drift speciation repute evolution radiation genetic
application to taleno management	1973 Nov p 28-35	convergence, Gondwanaland, mammalian evolution supercontinent
application to telecommunication state of the art	1960 Dec p 80	breakup and animal diversification 1969 Mar p 54-64 [877]
in infrared	1962 Mar. p 70	
acoustic waves generated	1962 Dec p 72 1964 Aug p 40	
liquid, high energy	1966 Oct n 48	Lavoisier, chemistry, phlogiston theory, science history, biography of Antoine Lavoisier 1956 May p 84-94
acoustic holography, sound waves, interference, ho	lography, acoustic	law code, Sumer, Lipit Ishtar, Hammurabi, cuneiform script, earliest lan
imaging, nondestructive testing, medical diagnos	\$15	code 1865 B C 1948 June p 44-47
	1969 Oct p 36	Sumer, hieroglyphs, Ur-Nammu 1953 Jan p 26-28
exothermic carbon dioxide	1970 Feb p 44	archeology, Sumer, cuneiform script, 3000 B C. to 1500 B C Ut,
gas-dynamic laser semiconductor minilaser	1970 July p 52	Nippur 1957 Oct p 70-83
transmission by optical fiber	1970 Oct p 54	law of large numbers, probability, gambler's fallacy, random walk mathematical proof, philosophy of science 1950 Oct p 44-47
energy levels, helium-cadmium laser, helium-seleni	1972 Feb p 42	"Law of the Heart', Starling, cardiology, biography of Ernest Starling
muxtures, metal-vapor lasers	1973 Feb p 88	1951 Oct p 56-61
isotope separation by laser	1974 Oct p 57	law of the sea. U.N. Conference 1978 Apr. p. 78
see also organic lasers, solid-state lasers, gas laser a	ind the like	lawn mower, random pattern most efficient 1969 Apr p 52
laser amplification, surface laser	1971 Nov p 49	lawrencium, 'synthetic' elements element 103 transuranium elements.
laser-excitation technique, isotope separation, light ab		high-flux isotope reactor, heavy-ion linear accelerator, penodic table
	Feb p 86-98 [354]	at 103 1963 Apr p 68-78
laser implosion, fusion reactor, nuclear power, nuclear thermonuclear reaction, plasma confinement	1974 June p 24–37	layered superconductors, BCS theory, crystal structure, electrical properties of metals, intermetallic compounds, intercalated crystal
laser lesions, microsurgery, laser, cell, physiology, cell		superconductors 1971 No. p 22
	eb p 98-110 [1170]	lead isotopes, isotope dating, radioisotope dating, strontium-rubidium
laser light, coherent radiation, interference, Brillouin s	scattering, energy	ratios peological and paleontological time dated by radioactive
	68 Sept p 120-136	decay 1949 Aug p 48
self-induced transparency	1967 June p 57	lead poisoning, chelation, hemochromatosis, pharmacology, drug action Wilson's disease metal poisoning heavy metal poisoning bone
laser light manipulation, rategrated circuits, light properties, i.e., file and a devices, optical circuits, pl	nganon in uusi notone inetead of	concer soliculates assum cancer therapt, chemotherapt, medical
	1974 Apr p 28-35	exploitation of chelates 1900 Ma) P 70
laser-light pressure, gas separation, laser, radiation pre	ssure, isotope	anemia hrain damage environmental toxins, blood disorders kidney
separation, 'optical bottle', atomic and molecular	beams	disorder, nerve disorders 1971 Feb p 13-23 (12)
	1972 Feb p 62–71	of waterfowl by spent birdshot pellets 1972 Sept P
laser mode-locking, Kerr gate, molecular motion, quan Raman clock, ultrafast phenomena, picosecond m	ium mechanics	leadership communication social neighbory suork patterns profiles.
Raman clock, unraiast phenomena, pedaccona m	1973 June p 42-60	neonle in groups 1931 Feb p 200
laser-pulse fusion, fusion reactor, plasma physics, nucle		leaf color, anthocyanins, chlorophyll, carotene, primary synthesis of
	971 June p 21–33	aromatic compounds 1950 Oct p 40
laser-pumped oscillator, optical parametric oscillator	1967 May p 56	leaf distribution, ecology, forest succession, trees 1975 May p 90-98 (132)
laser reflection, Apollo project, moon, orbital motion, lexperiment, corner reflector, Earth-Moon distance	measurement	leaf-eating heatle, used control insert bethingtes, agricultufal
	9/0 Mar p 38-49	technology Klamath weed Iwang herbicides 1957 July P 30-0
laser spectroscopy, Doppler effect, energy levels gas las	er, spectroscopy	leaf scission, auxins apical bud 1955 Nov p 82-89 [11]
, ·	973 Dec p 69-85	leaf shape, aging duckweed systematic study of familiar amateur observation 1949 Oct p 22-2
laseriess holograms, holography, white-light holograms	976 Oct p 80-95	leaftenmer acter vellow varies unless the plant and insect
latent heat, capillary action, heat pipes, vaporization, he		1953 June p 10-01
and interest	Jug May p Jumb	learning, thinking comparative psychology, rhesus monkeys 'learning to
latent viruses, slow virus infection, multiple sclerosis, my	elin sheath,	think' 1949 Aug p 30-39 (715)
- at amuslitic demuelinating latioi	310 3013 b -10 -10	infant speech language communication meaningful consistencies in infant babble 1949 Sept p 22-24 [417]
based on bone structure gene expression, provirus vii	us action	racion infant exectand coordination human exe
coexisting viruses, viral genes in host chromosome	p 102-113 [1347]	1950 Feb p 20–22 [401]
laterization, agricultural production equatorial rain fore	sts tropical	neurosis stress psychotherapy, experimental neuroses in cats 1950 Mar p 38-43 [443]
climate, developing countries, lateritic soil	- 06 107 (970)	vision experience sensory deprivation, 'arrested vision' role of
	p 96–102 [870]	environment experience in normal development
bomb craters, cratering, ecological warfare, defoliation	y p 20-29 [1248]	ובטאן פו-10 ס נוער טכפו
to the same sale anization	n. elastomers.	automata theory feedback conditioned reflex 1951 Aug p 60-63 operant conditioning, pets babies how to teach animals 1951 Date 20 20 11221
synthetic rubber, molecular structure 19:	56 Nov p 74-88	operant conditioning, personal new to teach animals
lathes, Industrial Revolution industrial technology, 1062	Apr p 132-142	
from Middle Ages		

. .

memory, brain, cerebral cortex, fundamental research, What is	aplysia, neurones, behavior, memory, synapse, heterosynaptic
memory? 1953 Sept p 118–126 [11]	facilitation, memory and learning at nerve-cell level 1970 July p 57-70 [1182]
fear, emotional development, comparative psychology, influence of	information retrieval, long-term memory, memory, short-term memory
early environment, experiments with dogs 1956 Jan p 38-42 [469]	1971 Aug p 82–90 [538] brain development, environmental stimuli, memory, rats, sensory
nerve regeneration, vision, visual perception, embryonic development, inborn 'hard wiring' of nerve circuitry 1956 May p 48-52 [1090]	deprivation 1972 Feb p 22–29 [541]
psychology, spatial perception, innate behavior, perceptual learning,	animal behavior, developmental psychology, homing behavior, lattens,
innate vs acquired space perception 1956 July p /1-80	suckling 1972 Dec p 18–25 [552] behavioral regression, child development, cognitive development,
brain, neurophysiology, neuropsychology, pleasure centers, hypothalamus, electrode stimulation of pleasure centers in rat brain	human behavior, infant perceptions 1976 Nov p 38–47 [572]
1956 Oct p 105–116 [30]	gobies learn and remember 1951 Apr p 38
bird song, animal communication, innate behavior, animal behavior	psychology, effect of delayed video feedback on maze solving 1961 Jan p 86
elephant, intelligence, vision, research in elephant learning	electrical activity in cerebral cortex 1967 July p 42
1957 Feb p 44-49	autonomic nervous system 1969 Apr p 49
evolution, intelligence, memory, language, imagery, experimental	brain-tissue implant in Tilapia 1969 May p 54
psychology, learning in man and animals 1957 June p 140–150 color vision, conditioned behavior, behavioral psychology, Skinner	learning behavior, comparative psychology, animal behavior, prairie dogs, social behavior, territorial behavior, innate behavior, field
box, visual discrimination, pigeons conditioned to respond to	observation of prairie dog communities 1959 Oct p 128–140
discrete wavelengths of light 1958 Jan p 77–82 [403]	learning speed, number of brain cells 1955 June p 56
imprinting, developmental psychology, animal behavior, effect of early life on later learning 1958 Mar p 81–90 [416]	learning theory, information processing, memory, reason, rational association as aid to memory 1956 Aug p 42-46 [419]
hife on later learning 1958 Mar p 81-90 [410] education, memory, experimental psychology, 'drill' in learning	glial cells, memory, neurones, RNA, brain, molecular theory of
1958 Aug p 68–72 [422]	memory 1961 Dec p 62–70 [134]
electroencephalography, brain waves, sleep, conditioned behavior, correlation of brain waves to behavior 1959 Aug p 89–96	least-action principle, Maupertuis, natural history, geoid, life and work of Pierre-Louis Moreau de Maupertuis 1955 Oct p 100-110
stress, behavior disorders, animal behavior, stimulation in infancy	least-squares method, physical constants, measurement, velocity of light,
1960 May p 80–86 [436]	electron mass, particle charge, standards of measurement, Planck's
depth perception, vision, visual perception, innate and learned response to visual cues 1961 Mar p 138-148	constant, Rydberg constant 1970 Oct p 62-78 [337] lecithin, fatty acid synthesis, microsome, acetic acid, coenzyme A, lipids,
visual perception, form perception, perception, innate or learned form	synthesis not breakdown in reverse 1960 Feb p 46-51
perception 1961 May p 66–72 [459]	alveoli, lung collapse, premature infants, breathing, surface tension, surfactant, hyaline membrane disease, soaplike agents regulate
retina, vision, visual perception, Gestalt psychology, stabilized retinal images, evidence for perceptual theories 1961 June p 72-78 [466]	surface tension in lungs 1962 Dec p 120–130
visual perception, Fechner's law, psychophysics, Skinner box,	lectins, agglutination response, cancer, cell membrane, immunology,
behavioral psychology, conditioned behavior, pigeon perception 1961 July p 113–122 [458]	proteins 1977 June p 108–119 [1360] lee waves, meteorology, wind, cloud, soaring, glider, esthetic exploitation
planarian, conditioned behavior, maze running, 'protopsychology',	of lee waves 1961 Mar p 124–134
evidence of learning in a primitive nervous system	leeches, spiders, spermatozoon transfer, sponges, sexual reproduction,
1963 Feb p 54-62 conditioned behavior, kinesthetic memory, behavioral psychology,	bedbugs, unorthodox methods of sperm transfer 1956 Nov p 121-132
place-learning 1963 Oct p 116-122 [479]	neural organization, nerve cells, nerve physiology, nerve signals,
memory, forgetting, proactive and retroactive interference 1964 Mar p 91-99 [482]	nervous system, reflex arc, neuro motor synapse 1974 Jan p 38-48 [1287]
chimpanzee, symbolic language, operant conditioning, binary numbers,	left-hemisphere functions, brain hemispheres, cerebral dominance, music
animal behavior, chimpanzee learning arithmatic	perception, right-hemisphere functions, auditory perception visual
1964 May p 98-106 [484] animal behavior, habitat selection, ecological adaptation, heredity, field	perception 1973 Mar p 70-78 [554] left-right asymmetry, bilateral symmetry, mirror images, central nervous
experiments with mice 1964 Oct p 109–116 [195]	system 1971 Mar p 96~104 [535]
conditioned behavior, long-term memory, short-term memory, lobotomy, octopus, touch, sensory perception, correlation of brain	Legionnaires' disease, traced to airborne bacterium 1978 Feb p 80 legumes, nitrogen, biological nitrogen fixation, ammonia, nitrifiers,
structure and function in octopus 1965 Mar p 42–50 [1006]	denitrifiers, nitrogen cycle 1953 Mar p 38-42
attention, physiological psychology, novelty, conflict, monotony,	bacteria, nitrogen cycle, nitrogen fixation, blue-green algae. Haber
conflict and arousal, aid to learning 1966 Aug p 82–87 [500] sensory perception, vision, touch, visual perception dominates touch	process, biosphere nitrate, eutrophication 1970 Sept p 136-146 [1194]
1967 May p 96–104 [507]	nitrogen fixation, agronomy, soybean products, plant protein
brain metabolism, memory, protein synthesis, goldfish, conditioned behavior 1967 June p 115-122 [1077]	1974 Feb p 14-21 agricultural economics, forage crops, grasses, agronomy, hay, livestock
forgetting, retroactive inhibition, proactive inhibition, recall,	feed, ruminants, silage, Rhizobium bacteria 1976 Feb n 60-75
interference theory 1967 Oct p 117–124 [509] bilingualism, language, communication, reading, information	algae, bacteria legumes, nitrogen fixation, nitrogenase genetic
processing 1968 Mar p 78–86	engineering, Haber process, rhizobium, symbiosis, nitrogenase, biological nitrogen fixation 1977 Mar p 68–81
animal behavior, cerebral cortex, striatum, bird nervous system, crows, pigeons, cananes, chickens 1968 June p 64-76 [515]	algae, bacteria, nitrogen fixation, nitrogenase, genetic engineering
holography, memory, brain function, interference patterns, monkey	Haber process, rhizobium, legumes, symbiosis, nitrogenase, biological nitrogen fixation 1977 Mar. p. 68–81
brain, holographic model, neurophysiology of remembering	Leibnitz, mathematics, philosophy, calculus, symbolic logic, calculating
thesus monkeys, social behavior, urban monkeys, urban and forest	machine, Leibnitz, biography 1968 May = 04 100
monkeys in india 1060 tule m inglist (522)	Leidenfrost phenomenon, antimatter, Zeeman effect, Klein theory, high- energy physics, cosmology, high-energy physics and cosmology
animal behavior, innate behavior, parental care, feeding behavior, sea gull chicks 1969 Dec p 98-106 [1165]	1967 Apr p 106 114 (211)
autonomic nervous system heart rate blood pressure gurare	leishmaniasis, Chaga's disease, public health, 'zoonoses', parasitism trypanosomiasis, malana, filanasis plague, yellow fever, typhus,
electrocardiography, learning voluntary control of autonomic	epidemiology, animal infection and human disease
1970 Jan p 30–39 [525]	1000 14
	lek behavior, animal behavior, courtship display, turkeys, pecking order, sexual behavior, Welder Wildlife Refuge 1971 June p 112–118
in the three	1971 June p 112–118

terrestrial life

sage grouse, sexual behavior, natural selection, lek mating behavior in	along from the state of the
50gc grouse 1078 May n 114 125 1120	of the state of th
see also, alena denaylor	
lemmings, animal behavior, population cycles, population control	forest communities, ecology, algae, food chain, nitrogen cycle, treetop ecosystems
1974 tune n. 29 46 (120)	275 June p. 17-00 [1214]
rengin standard, cestum clock, mass standard, time standard, temperature	c life evele, virus reproduction bectarionhage acquires
standard, interferometry, measurement 1968 June p. 50-6	2 1064 14 24 27
ieus averrations, glass, optics, photographic lenses 1076 Apr. n. 72 o	1994 Mai, p. 54-37
tens design, camera, telescope, interferometry, computer graphics, image	predation 1054 tune n 77 43
formation, light 1968 Sent in 96, 10	8 chimney swift, natural history 1954 July p. 60-64
Leonardo, friction, Coulomb, technology history, sliding surfaces,	life expectancy, aging death biology of consecond 1949 time n 40 43
molecular cohesion, 'coppering' 1951 Feb. p. 54-5	probability of death, historic changes in average length of human life
projective geometry, Renaissance paintings, Durer, Desargue's	1950 Apr. p. 58-60
theorem, Pascal's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan. p. 80-86	aging, rotifer, experiments in aging, age of mother 1953 Apr. p. 38-42
systematized by Poncelet and Klein 1955 Jan. p. 80-80	aging, death rate, disease etiology, male:female life expectancy
creativity, scientific revolution, Renaissance, philosophy of science, introduction to single-topic issue on innovation in science	1958 Feb. p. 22-27
	aging, death rate, comparative life spans in man and other animals
1958 Sept. p. 58-65 bearing, friction, gears, technology history, Codex Madrid I	
searing, metion, gears, recimiology history, Codex Madrid 1	aging, cell physiology, gerontology, manifestations of aging
1971 Feb. p. 100-110 Lepidoptera, entomology, photoperiodicity, insect diapause, hibernation	
governed by photoperiodicity 1960 Feb. p. 108-118	chronic illness, morbidity, mortality rates, medical care, vital statistics,
governed by photoperiodicity 1960 Feb. p. 108-118 leptons, charmonium, charmed quarks, high-energy physics, gauge	
theory, hadrons, quark hypothesis, 'color' and 'flavor' in quarks	1973 Sept. p. 76-84
1975 Oct. p. 38–50	life processes, living tissue, limits of dimension and mass, Jonathan Swift was no biologist 1948 Nov. p. 52-55
baryons, high-energy physics, hadrons, mesons, quantum numbers,	was no biologist 1948 Nov. p. 52-55 lift barrier, heat barrier, supersonic flight, aviation 1953 Dec. p. 80-84
quark confinement, bag model, infrared-slavery model, string model	in parties, near parties, supersome right, aviation 1950 Exc. p. 50 1950 in the flight, insect flight.
1976 Nov. p. 48-60	mechanism, hovering flight
heavy leptons, tau particle, elementary particles, small light-particle	1975 Nov. p. 80-87 [1331]
family gains new member 1978 Mar. p. 50-57 [398]	light, ultraviolet radiation, photoreactivation, visible light reactivates
letters, reading, words, pattern recognition, visual cues in recognition of	organisms killed by ultraviolet 1951 May p. 22-25
letters and words 1978 Jan. p. 122-130 [122]	Haukshee, electric power, science history, life and work of Francis
leukemia, atomic bomb test, radiation damage, ionizing radiation,	Hauksbee 1953 Aug. p. 64-69
immune response, fallout, nuclear medicine, radiation damage,	radiation pressure, sound-wave pressure, photophoresis, analogy and
whole-body irradiation 1959 Sept. p. 117-137	distinction, light- and sound-wave pressure 1957 June p. 99-105
cancer, enzyme blood levels, myocardial infarction, hepatitis, cancer	diffraction, wave-particle duality, optics, interference, electromagnetic
diagnosis, medical diagnosis, diagnosis by presence of abnormal	waves, photon emission, introduction to single-topic issue on light 1968 Sept. p. 50-59
enzymes 1961 Aug. p. 99–107	1900 Sept. p. 50 v.
leukocyte, cancer, chemotherapy, virus, ionizing radiation, Down's	photoelectric effect, color, reflection, refraction, resonance absorption,
syndrome, origin and treatment of lymphocytic and granulocytic leukemia 1964 May p. 88-96	photon, electron, interaction of light with matter 1968 Sept. p. 60-71
cancer virus, Rous sarcoma virus, cancer virus, RNA virus, 'Rous-	spectroscopy Fraunhofer lines prism Fourier analysis, diffraction
associated virus' capacitates 'defective' Rous sarcoma virus	grating, Girard grid, interferometry 1968 Sept. p. 72-82
1964 June p. 46–52 [185]	comers land decion telescone interferometry computer graphics,
asparaginase, cancer therapy 1968 Aug. p. 34-40	image formation [968 Sept. p. 50-100
leukocyte, infection, phagocytosis, antibodies, 'the first line of defense'	vision, retina, photographic emulsion, vidicon, television camera,
1951 Feb. p. 48-52 [51]	-bree-breiter immor desection plantropic camera
blood plasma, blood fractionation, erythrocyte, platelets, centrifuge,	photoenemistry, image detection, electronic earners 1968 Sept. p. 110-117
blood transfusion, blood banks 1954 Feb. p. 54-62	laser, optical communication, holography, surveying, welding, laser technology 1968 Sept. p. 140-156
fever, thermoregulation, homeostasis, hypothalamus, etiology of fever	vision, image processing, visual perception, imagery, eye and brain in
1957 June p. 62–68	viewal necession 1968 Sent D. 204~414 [277]
antigens, immune response, antibodies, hypersensitivity, phagocytosis, inflammatory response, allergy, thymus gland, lymphatic system,	measuring speed of light 1957 Feb. p. 62
cellular immunity 1964 Feb. p. 58–64	light absorption, solar energy nigments, energy conversion, solar
leukemia, cancer, chemotherapy, virus, ionizing radiation, Down's	collectors 1956 June p. 97-100
syndrome, origin and treatment of lymphocytic and granulocytic	chlorophyll, chloroplast, electron transfer, photosynthesis
leukemia 1964 May p. 88–96	1974 Dec. p. 68–82 [1310]
nucleus, DNA, Miescher, spermatozoon nucleus, chromatin, hereditary	isotope separation, laser-excitation technique, quantum mechanics, uranium enrichment 1977 Feb. p. 86-98 [354]
meterial discovery of DNA 1968 June p. 78-88 [1109]	light amplification, photocell, photomultiplier, variable stars, stellar
wound healing, regeneration, fibroblasts, collagen, epidermal cells	temperature, interstellar matter 1952 Mar. p. 56-59
1969 June p. 40–50 [1144]	the second secon
liberal arts colleges, scientists, science education, origins of U.S. scientists 1951 July p. 15-17	1974 July p. 60-75
Passage Libraries Group 1974 June p. 50	light-emitting diode, semiconductor, taser, electron beam, junction diode,
library cooperation, Research Libraries Group 1974 June p. 50 library science, computer technology, information storage, information	solid-state lasers 1967 May p. 106-122
	integrated circuits, liquid crystals, Nixie tubes, numeric displays 1973 June p. 64-73
1900 Sept. p. 227-272	communication technology, laser, liber optics, light pipe
printed-matter explosion quantified 1963 Nov. p. 72	1973 Nov. p. 28–35
printed-matter explosion quantities lice, bacteria, ectoparasites, skin, fungi, hair, human skin ecosystem 1969 Jan. p. 108–115 [1132]	digital transmission, diode laser, fiber optics, glass fiber cables, light-
	wave communication, pulse-code modulation, lightwave telephone
licensing, Atomic Energy Act, patent law, power, international	1977 Aug. p. 40–48 [573]
cooperation, military secrecy, mentational 1954 Nov. p. 31–35	light-emitting semiconductor, carrier-wave generator, communication
provisions of Atomic Emergy vet ecology, polar ecology, symbiotic	technology, crystal structure, diode laser, laser, heterostructure lasers, solid-state electronics 1971 July p. 32-40
	light interactions, crystallography, laser, light refraction, nonlinear optics,
	ultraviolet radiation, photon 1964 Apr. p. 38-49
Antarctica, fauna, flora, blue-green argue, cology, p. 212–230 [865] terrestrial life	The state of the s

light-matter interaction, photochemistry, flash photolysis, ultraviolet	limited nuclear warfare, civil defense, arms race, fallout technology
light, photolysis, triplet state, photoreduction, photooxidation, dye	assessment, flexible-response strategy, limited nuclear war
1968 Sept p 158–170	1976 Nov p 27–37
light microscope, microscopy, scanning electron microscope, transmission	limits of dimension and mass, life processes, living tissue. Jonathan Swift
electron microscope, three demensional pictures by scanning	was no biologist 1948 Nov p 52-55
	limnology, pond life, dissolved oxygen, plankton, thermocline,
	hypolimnion, oxidation-reduction balance in depths of a pond
light pen, cathode ray tube, computer technology, computer displays,	1951 Oct p 68–72
information theory, computer graphics, rand tablet, computer	limpets, escape response, marine invertebrates, starfish, scallop, prey-
graphics and man-machine interface 1966 Sept p 86-96	
light pipe, communication technology, laser, fiber optics, light-emitting	predator relationship, snail, chemical signals
diode 1973 Nov p 28–35	1972 July p 92–100 [1254]
light polarization, interstellar dust, interstellar gas, protostars	Limulus, horseshoe crab, vision, ommatidia, visual perception optic
1967 Oct p 106–114	nerve, horseshoe crab as laboratory animal 1956 Dec p 113-122
light pressure, solar system, Sun, cosmology, dust cloud hypothesis,	visual perception, ultraviolet receptor 1964 Apr p 62
gravity, gravitational collapse, thermonuclear reaction, genesis of	line structure, color television picture elements, field-scanning rate,
solar system 1948 May p 35–45	technology assessment, competing color television systems weighed
light propagation in thin films, integrated circuits, laser light	1950 Dec p 13–17
manipulation, thin-film optical devices, optical circuits, photons	Linear A script, Mycenaean civilization, Hebrew civilization, Linear B
instead of electrons in circuits 1974 Apr p 28–35	script, Minoan civilization, Crete, Semites, common origin of Greek
light reflection, fiber optics, wave guide, image transmission, physics of	and Hebrew civilizations 1965 Feb p 102-111
light conduction 1960 Nov p 72–81	linear accelerator, electron accelerator, traveling-wave accelerator.
coated optics, optical interference coatings, light transmission,	internal drift-tube accelerator 1954 Oct p 40-44 [234]
	electron accelerator, Stanford Linear Accelerator Center, klystron tube,
dielectric mirrors, laser, interferometry 1970 Dec p 58-73 light refraction, crystallography, laser, nonlinear optics, light interactions,	two-mile Stanford Linear Accelerator 1961 Nov p 49–57 [322]
	streamer chamber, track detectors, pulse generator, new particle
	detector 1967 Oct p 38–46
light scattering, photometry, molecular size, aerosol, hydrosol, Tyndall spectra, measurement 1953 Feb p 69–76	U S Federal funding 1961 Aug p 60
	Linear B script, Homer, Minoan language, Greek civilization cryptology,
molecular weight determination, polymers, viscometer, photometer,	an account of the decipherment 1954 May p 70–75
how grant molecules are measured 1957 Sept p 90-97	Greek civilization, Mycenaean civilization, Classical archeology, Pylos,
molecular weight determination, polymers, viscometer, photometer,	
how giant molecules are measured 1957 Nov p 90-97	King Nestor's palace, 1200 B C 1958 May p 110–121 Mycenaean civilization, Hebrew civilization, Linear A script, Minoan
sunset, sunrise, green flash, green flash explained	
1960 Jan p 112-122	civilization, Crete, Semites, common origin of Greek and Hebrew
astrophysics, zodiacal light, zodiacal light and interplanetary dust	civilizations 1965 Feb p 102–111
1960 July p 54–63	Greek prehistory, Mycenaean civilization, origins of writing
light-string theory, dual-resonance model, high-energy physics, hadrons,	1972 Oct p 36–44 [681]
quark, strong interactions 1975 Feb p 61-67	code cracked 1954 Jan p 44
light-to-heat conversion, solar energy, photovoltaic conversion,	linear induction motor, electromagnetic flight, transportation, linear
photosynthesis, limitations and prospects of solar power	synchronous motor, 'magneplane' vehicle, magnetic levitation,
1950 Aug p 16–21	superconductors 1973 Oct p 17–25
light transmission, coated optics, optical interference coatings, light	linear programming, decision theory, mathematical model
reflection, dielectric mirrors, laser, interferometry	1954 Aug p 21–23
1970 Dec p 58–75	linear synchronous motor, electromagnetic flight, transportation, linear induction motor, 'magneplane' vehicle, magnetic levitation
light velocity, radiowave, phase velocity, plasma, free-electron density, 'things that go faster than light' 1960 July p 142–152	
light-wave communication, digital transmission, diode laser, fiber optics,	linguistic material, image processing, memory, perception, visual memory,
glass fiber cables, light-emitting diode, pulse-code modulation	remembering what is seen 1970 May p 104-112 [528]
lightwave telephone 1977 Aug p 40–48 [373]	linguistics, speech, language, dialects American languages, changes in
light waves, thin-film optical devices, interferometry, fluorescence, wave	US speech 1950 Jan p 48-51
motion, monomolecular films, fatty acids 1970 Mar p 108–119	evolution of language information theory, a theory of natural selection
lighting, electric light, zinc sulfide, alternating current, technology of	in language 1952 Apr p 82–87
indoor lighting 1957 Aug p 40-47 [221]	computer translation, information theory 1956 Jan p 29-33
architecture, sunlight, solar radiation, building construction, glass	Indo-European language, comparative grammar, root words,
1968 Sept p 190–202	reconstructing genealogy of Indo-European languages
lightning, thundercloud, ionization physics of the lightning bolt	1958 Oct p 63–74
1949 Feb p 22–27	pidgin, Creole, gullah, colonialism, grammar, evolution and
Earth magnetic field, radio, ionosphere, 'whistlers', radio echoes of lightning 1956 Jan p 34-37	elaboration of colonial languages 1959 Feb p 124–134
	artificial intelligence, language, Loglan, 'language of logic'
acoustic pulses, air pressure, thunder 1975 July p 80-90 Earth ionosphere resonator 1961 Feb p 70	1960 June p 53–63
	grammar, language organization, speech errors spoonerisms, syntactic rules
temperature 1961 Oct p 86 triggered with rockets 1967 Dec p 58	
thunder, classifying bolts by sound 1975 Jan p 49	Africa, Bantu language, Early Iron Age culture, language diffusion
superbolts 1977 Sept p 105	1977 Apr p 106–114
lignin, wood cellulose, cell structure, grain structure 1953 Jan p 64-67	lions, animal behavior symbiosis predator-prev relationship
cellulose, rayon forest products, crystal structure, polymers, paper,	identification by which are assert to the 1975 May p 54-65
polysacchandes, overview of natural polymer 1957 Sept p 156-168	identification by whisker-growth patterns 1970 Sept p 94
wood, paper aromatic compounds chemical identity of clusive lignin	lipid molecules, cell membrane, membrane proteins, membrane structure, active transport
1958 Oct p. 104–113	lipid-storage diseases enzyme defigurer for march of p 26–33 [1292]
forest products wood pulp, paper, cellulose rayon, waste recycling.	lipid-storage diseases, enzyme deficiency, fat metabolism genetic disease, amniocentesis. Tax-Sachs disease, lipide 10 lipid storage genetic disease,
krait process 1974 Apr. p. 52–62	amniocentesis Tay-Sachs disease, lipids 10 lipid-storage diseases
nibber filler 1051 Apr. p. 34	hpids, fatty acid synthesis microsome, acetic acid coenzyme A, lecithin
lignite beds, uranium ore badiands of Dallotte 1051 On = 26 20	synthesis not breakdown in reverse 1960 Feb. p. 46–51
limestone, architecture, sculpture, erosion, marble, atmospheric pollution	enzyme deficiency, fat metabolism, genetic disease, amniocentesis Tay-
weathering, preservation of stone 1978 June p 126-136 [3012]	Sachs disease lipid-storage diseases, 10 lipid-storage diseases
	in inpidestorage diseases
	1973 Aug p 88–97

	The transfer of Topics
Lipit Ishtar, Sumer, law code, Hammurabi, cunciform script, earliest lay	lington Ch
	47 to-least a street of the first tree, hyond wheat, agricultural
growth below a supercooling, nucleation, cryogenics, crystal	livestock feed agricultural agricultural agricultural
nquid ery stals, soap bubbles, cholestene, smeetic, nematic	may, regumes, ruminants, silage, Rhizobium bacteria
1964 Aug p 76-display devices, dynamic scattering, storage mode, television receiver	ning cei, see cytology
integrated circuits, light-emitting diode, Nixie tubes, numeric displays	living matter, elements, essential elements, metallo-enzymes, fluonne, silicon, tin, vanadium, list of elements essential to life lengthened to
1072 7000 - 64 5	2 24 1972 July p. 52-60
liquid-drop model, atomic nucleus, shell model, optical model, high- energy physics, charge exchange, spin-orbit force, resonance	was no biologist 1948 Nov n 52-55
'particles', proton, neutron, structure of the nucleus	lizard, behavioral adaptation, 'cold-blooded' animals, pigmentation
1050 Inn n 75 c	thermoregulation, reptile, behavioral thermoregulation 1959 Apr p 105-120
nuclear fission, heavy nuclei, neutron, uranium 235, shell model, fissio fragments 1965 Aug p 49-5	
inquit electronics, solion circuit elements 1057 Aug = 6	load-bearing wall, skyscrapers, curtain wall, building construction loss Mar p 44-48
liquid fuel, rocket engine, reaction propulsion, regenerative motor, technology history, status of the technology on eve of space age	loading, cargo handling, shipping, containerization, automatic control as
1940 May n. 20 2	transport 1968 Oct p 80-88
inquid-tuei consumption, fossil fuel, petroleum reserves coal reserves	lobotomy, conditioned behavior, learning, long-term memory, short term memory, octopus, touch, sensory perception, correlation of brain
energy consumption, shale, tar sands, coal liquefaction, the fuel problem 1949 Dec p 32-39	structure and function in octopus 1965 Mar p 42-50 [1006]
iiquid nelium, heat conducting properties 1956 lune n. 63	lobsters, homing instinct local clusters, supergalaxy, Milky Way, galactic clusters
inquid hydrogen, bubble chamber, cloud chamber, superheated fluid	1954 July p 30-35
liquid lasers, laser, rare-earth ions, solvation shell, chelate cage,	1977 Nov. n. 76-98 [390]
comparison of liquid, gas and solid-state lasers 1967 June p. 80-90	local government, cities, New York, metropolitan region, central city,
liquid-metal reactor, breeder reactor, nuclear power, fast neutron reactor, uranium cycle, thorium cycle, fission reactor, energy demand	suburbs, Northeast Corridor, regional planning 1965 Sept p 134-148
1970 Nov. p. 13–21 (339)	lock-and-key theory, enzymes, catalysis, digestion, respiration,
liquid natural gas, natural gas, pipelines, tankers, storage, distribution of LNG 1967 Oct p 30-37	fermentation, science history 1948 Dec p 28-39
energy resources, fuel imports, technology assessment, risk estimation,	is a protein made? 1953 Sept. p. 100-106
tankers, LNG 1977 Apr p 22-29 liquid phase, superfluidity, helium 3, gas phase, solid state physics,	enzyme action, molecular structure, protein shape change, protein structure 1973 Oct p 52-64 [1280]
quantum effects, quantum fluids, phase transitions	antibodies, antigens, active site, immune response, immunoglobin,
1976 Dec p 56-71 liquid planets, Great Red Spot, Jovian moons, atmospheric circulation,	Bence-Jones proteins, Fab fragments, Fc unit 1977 Jan p 50-59 [1350]
Jupiter, solar system 1975 Sept p 118-126	locomotion, badger, dog, horse, cheetah, deer, comparative anatomy,
liquid state, crystal structure, metals, X-ray diffraction, physics of metals	running, how animals run 1960 May p 148-151
in the liquid state 1969 July p 72–82 liquid structure, five-fold symmetry, polyhedral-hole model, geometrical	walking, primates, human evolution, bipedal walking, muscle, bone, fossil record, origin of human walking 1967 Apr p 56-66 [1070]
arrangement of molecules in a liquid 1960 Aug p 124-134 [267]	animal behavior, herpetology, snake, lateral, rectilinear, concertina and
liquids, boiling, heat transfer, nuclear boiling, transition boiling, film boiling 1954 June p 64-68	nervous system, walking, Edweard Muybridge photographs, control of
cavitation, droplet-levitation technique, negative-pressure concept,	walking 1976 Dec p 12-80 [1340]
tensile strength, surface tension 1972 Dec p 58-71 liquified hydrogen, energy resources, hydrogen, electrolyzer technology,	locust, aerodynamics, insect flight, wind tunnel, efficiency of locust flight 1956 Mar p 116-124
hydrogen energy economy, cryogenic storage, fuel cell	muscle contraction, insect flight, flight control system, nerve network,
literacy, agricultural production, poverty, education, economic	insect behavior, animal navigation, nervous system, insect flight,
development, language, Peru, Cornell-Peru experiment in economic	response to stimuli, schistocerca gregaria 1971 Aug p 74-81 [1231]
development 1957 Jan p 37-45 lithiasis, crystal structure, kidney calculi, X-ray diffraction, bladder	logic, computer technology, digital computer, analogue computer, relay
stones, gallstones, urnary calculi 1968 Dec p 104-111	computers, binary arithmetic, automatic control, computer memory.
lithium, tritium, cosmic radiation, nuclear reactor, radioisotope, tracer chemistry 1954 Apr p 38-40	control systems, status of 'mathematical machines' 1949 Apr p 28-39
catalysis, polymerization, stereoisomers, promotion of polymerization	mathematics, set theory, paradox, non-Euclidian space, non-
by hthrum 1963 Jan p 88-102 interstellar matter, stellar formation, variable stars, infrared radiation,	commutative algebra, Hilbert spaces, science, mathematics 1900- 1950, undecidable questions 1950 Sept p 40-42
vounteet stare? 1967 Aug p 30	mathematics, Carroll, Dodgson, 'Alice in Wonderland', Lewis Carroll (Charles Lutwidge Dodgson), biography 1956 Apr p 116-128
hithosphere, artificial diamonds, ultra-high pressure, coesite, borazon, properties of matter under 2 × 10 ⁶ p s 1 1959 Nov p 61-67	Godel's proof, mathematics, paradox, philosophy of science
hthospheric cycle, atmosphere, Earth crust, geochemical cycle, hydrologic	undecidable problems in axioms of arithmetic 1956 June p 71-86 antinomy, paradox, mathematical logic, barber paradox, undecidable
cycle 1974 June p 72–79 [414] lithospheric subduction, earthquake zones, island arcs, mountain	questions, Godel's proof, Grelling's paradox, Epimenides' paradox,
formation plate tectonics, sea-1100f spicading, adduction zones	Zeno's paradox, paradox and foundations of logic 1962 Apr p 84-96
volcanic zones 1975 Nov p 88-98 [919] volcanic zones 1975 Nov p 88-98 [919] hver function, metabolism, alcohol tolerance, drug abuse, acetaldehyde 1953 Dec. p. 86-90	games theory, computer theory, algorithms, problem solving Turing
1752 200 9 0 0 0	machine 1965 Nov p 98-106 grammar, truth, philosophy, sentence metalogic, mathematical proof,
chemotherapy, drug effects, pharmacology, vaccine, hormone, antibiotics, medical care, herbial medicine 1973 Sept p 102~112	antimony of the har, proof and truth 1969 June p 65-77
antiologis, memeri care, network, drug inactivation, enzyme,	confirmation theory, hypothesis-testing inductive proof, philosophy of science, probability 1973 May p. 75-83
metabolism of drugs, cirthosis	logic circuits, binary anthmetic, computer technology, integrated circuits switching elements, computer memory, microelectronics, hardware
alcoholism, alcohol metabolism, tatty liver, mattheward 1976 Mar p 25-33 [1336] calones', acetaldehyde, cirrhosis	Switching cionetics, companie areas, years

			1050 T 05
	966 Sept p 74-85	'secrets betrayed' at Great Falls	1950 Jan p 27
computer memory, integrated circuits, metal-oxide s	emiconductors,	forensic psychiatry, testimony at Hiss trial	1950 Mar p 29
microelectronics, large-scale integrated circuits, tra	ansistor	visa policy, scientists denied US visas	1952 Mar p 35
	1970 Feb p 22-31	'Security, Loyalty and Science', award to Walter Gell	
logic elements, binary arithmetic, Boolean logic, integr	ated circuits, large-		1952 June p 36
scale integrated circuits, microelectronics 1977 Se	ept p 82–106 [376]	visa policy, visa-troubled psychologists	1952 July p 36
logic gates, fluid dynamics, amplifiers, switching, Coar	ida effect	visa policy, visa to Pauling	1952 Sept p 72
rogic gates, riale Symmetry, every	1964 Dec p 80-88	visa policy, meetings go abroad	1953 Mar p 47
integrated circuits, metal-oxide semiconductors, mic	roelectronics,	McCarthy on stage	1954 Feb p 44
semiconductor technology, transistor 1977 S	Sept p 70-81 [375]	fear of McCarthy	1954 Apr p 44
logic machine, Stanhope demonstrator, Boolean algebra		'Oppenheimer case', A E C, leaks from Oppenheime	r hearing
syllogisms	1952 Mar p 68-73		1954 June p 44
Loglan, artificial intelligence, language, linguistics, 'lar	nguage of logic'	'Oppenheimer case', A E C, Oppenheimer a security	nsk
Dog.min di tillotta intoniganos, imagas g / g	1960 June p 53-63		1954 July p 42
London plane, city trees, pollution effects, tree cloning		'Oppenheimer case', A E C, Oppenheimer verdict su	stained
Norway maple 19	76 Nov p 110-118	••	1954 Aug p 36
long-range forces, ionic bonds, covalent bonds, hydrog		scientists quit government over procedures	1954 Sept p 70
Waals force, chemical bond, antigen-antibody rea	iction, proposed	'Condon case', Condon's multiple jeopardy	1955 Feb p 54
intermolecular long-range force	1948 Oct p 14-17	· 'Oppenheimer case', A E C, boycott of Oppenheimer	r boycott
Scotch verdict	1950 Mar. p 28		1955 May p 54
long-term memory, conditioned behavior, learning, she	ort-term memory,	visa policy, courts compel visas	1955 Sept p 72
lobotomy, octopus, touch, sensory perception, co	rrelation of brain	science funding, eligibility and political attitudes of F	ederal grantees
structure and function in octopus 1965 M	Mar p 42-50 [1006]		1956 May p 54
digit recall, short-term memory, memory, tachistosc	cope	political views 'no obstacle' to research funding	1956 Oct p 67
1966	July p 90–95 [499]	NSF, Yellin case 'In lieu of ability'	1961 Aug p 61
information retrieval, learning, memory, short-term		LSD: Lysergic acid diethylamide	
1971	Aug p 82–90 [538]	LSD, ergot, psychosis, psychoanalysis, experimental ps	ychoses
longevity, aging, gerontology, senility, medical care	1973 Sept p 44-52		1955 June p 34–39
age of the mother	1950 Sept p 48	auxins, serotonin, comparative physiology, neurophy	siology,
loop growth, crystal growth, spiral growth, screw dislo	cation	physiological function of serotonin	1957 Dec p 52-56
1 g ., g. , 1 G	1955 Mar p 74-80	alkaloids, plant physiology, morphine, strychnine, 'he	emlock',
loose-snow avalanche, snow, avalanche, slab avalanch	e	physostigmine, caffeine, contine, quinine, cocaine,	rıcınıne, human
,	1954 Jan p 26-31	toxins in plant physiology 1959 July	p 113–121 [1087]
Lorentz force, artificial satellite, geomagnetism, magr	ietosphere, solar	alkaloids, hallucinogens, mental health, drug addiction	on, consciousness
radiation, Van Allen belts, radiation belts, aurora	a, physics of Van	alteration, psychosis, psilocybin, mescaline, effects	of LSD
Allen belts	1963 May p 84-96		Apr p 29-37 [483]
Lorentz tranformation, ether drift, Fitzgerald contrac	tion, Maxwell's	lubrication, friction, stick-slip friction, bearing, violin b	ow, uses and
equations, relativity theory, life and work of G I	F Fitzgerald		56 May p 109-118
	1953 Nov p 93-98	bearing, friction, mechanical engineering, sliding, rol	
Lorentz transformation, Einstein, relativity, child dev	elopment, child's	contactless bearings	966 Mar p 60-71
view of reality	1957 Mar p 46-51	Beilby layer, ferrograph analysis, friction, machine w	ear, metal fatigue,
lost-way casting, metallurgy, New World archeology,	New World	particles of wear, wear	1974 May p 88-97
archeology, Old Copper culture, Peru, copper, go		bearing, friction, journal bearing, wear	1975 July p 50-64
Columbian, New World, 4,000 B C	1966 Apr p 72–81	luciferase, bioluminescence, glow worm, firefly, abyssal	fish, 'cold light'
loudness variations, hearing, musical dynamics, music			1948 May p 46-49
muscial notation, musician performance	1974 Nov p 78-95	bioluminescence, firefly, insect behavior, insect physic	iology, luciferin,
lovebird, animal behavior, evolution, innate behavior		chemotaxis, biochemistry of bioluminescence	2 20 20 11 11
interspecies differentiation of behavior	1962 Jan p 88–98	lugiforin hydromenas Gastler mars habarra	Dec. p 76-89 [141]
low-energy radiowaves, cosmology, universe expansion	or nameval fireball	luciferin, bioluminescence, firefly, insect behavior, insec	et physiology,
background radiation, 'big bang' theory, isotrop helium abundance, 'big bang' theory and cosmic		luciferase, chemotaxis, biochemistry of biolumines	
radiation	1967 June p 28–37	Lucretius, atomic theory, Greek science, Renaissance so	Dec p 76-89 [141]
low-grade ores, iron ore, mining, ore beneficiation, h	ematite taconite		70 May p 116–122
Grand orest treat timing, ore beneficiation, in	1968 Jan p 28–35	lugworm, Annelida, feather duster worm, biological clo	cl circadian
low-potential energy, energy resources, solar energy,		rhythm, marine worm	59 June p 132–142
windows, hot water, Sun can supply most of the	: 30 percent of fuel	lumbar vertebrae, bipedal walking, human evolution, pe	elvis lower-back
energy consumed in domestic heating	1951 Feb p 60-65	pain, 'scars of human evolution' 1951 I	Dec p 54-57 [632]
low temperature, hot springs, adaptation, high temperature	erature, glaciation	luminiferous ether, ether drift, special relativity, speed of	of light.
	1949 Feb p 46-49	interferometry, Michelson-Morley ether-drift expe	riment
low-temperature physics, cryogenic technology, heliu		196	4 Nov n 107-114
superconductivity 194	9 June p 30-39 [206]	luminosity, flame chemistry, chemical kinetics, flash tul	e, ram jet, heat.
superfluidity, helium 1, helium 2, seond sound qu		velocity, spectroscopy	1953 May n 29_35
liquid helium properties 195	8 June p 30-35 [224]	iunar evolution, Apollo project, lunar magnetism, magn	etometers on
superconductivity, critical field strength, superconductive has been su	nductive motor,	moon, space exploration	1971 Aug p 62-73
fluxtrap, superconductive bearing, superconductions of superconductivity		Apollo project, lunar rocks, space exploration	1971 Oct p 48_58
molecular magnet coolers	1960 Mar p 74-82 1957 Sept p 110	iunar rocks, moon, solar system. Apollo missions 19	75 Sept p 07 102
lower-back pain, bipedal walking, human evolution,	lumbar vertebrae	lunar exploration, moon, space exploration, lunar surfa	
pelvis, 'scars of human evolution' 199	51 Dec. n. 54-57 [632]	design Ranger missions	1966 Jan p 52-67
lowest temperature, 006 degrees absolute at Leyden	1949 Jan n 28	moon surface, spacecraft, lunar geology, cratering, st	ructure, history,
loyalty and security, McCarthy, U.S. Army, Fort M.	onmouth Scientists'	origin of moon from nine spacecraft visitations 1 moon, lunar landing sites, manned space flight, remo	96/ Mar p 60-74
Committee on Loyalty and Security, report on	Signal Corps	tanding sites, mainled space night, remo	te sensing
Engineering Laboratory	1954 June p 29-31	Apollo 11 landing and Mariner 6	Oct p 54-72 [889]
A E.C., clearance procedures	1948 Sept p 28	magnetometer, seismometer	1969 Sept p 88
scientists' 'loyalty problem' committee clearance with I ederal science funding	1948 Nov p 24	lunar geology, moon, satellite, stratigraphy cratering, to	1970 Jan p 49
A \ A S protests I ederal procedures	1949 Aug p 25	Ranger photographs	964 Dec = 20 47
to the character contraction between the	1949 Oct p 27	- •	964 Dec p 38-47

moon surface, spacecraft, cratering, lunar explor	alian structura	1.1	
history, origin of moon from nine spacecraft v	isitations	lying, anxiety, polygraph, psychosomatic illness rate, skin temperature, 'lie detector' mis-na	, guilt, breathing, pulse med
hmar gravitation, atmospheric tides, solar gravitatio	1967 Mar. p. 60-7	4	1967 Jan n 25-31 [503]
lunar landing sites, moon, lunar exploration, manne	on 1954 May p, 36-3		d. lymph nodes lymph
sensing 16	ed space tiight, remote	vessels, Starlings' hypothesis, lymphatic cir	culation, lymphedema
	769 Oct. p 54-72 [889	ine body's 'second circulation'	1963 June p 80-90
lunar luminescence, moon, solar radiation, Kepler of meteorites, impact of solar protons?	crater, solar flares,	lymph nodes, lymphatic system intercellular flui	d lymph ressels lymph
meteorities, impact of sour protons? meteoritie debris(?)	1965 May p. 28-31	ducis, Stationes' hypothesis lymphatic area	ilation lymphedema the
lunar magnetics A -11	1964 Mar. p. 50	body's 'second circulation'	1963 June p 80-90
lunar magnetism, Apollo project, lunar evolution, n	nagnetometers on	lymph vessels, lymphatic system intercellular file	id lemah nadec lemah
moon, space exploration	1071 Aug - 62 23	ducts, Starlings' hypothesis, lymphatic circu	dation limphedems the
lunar occultation, red shift, radio galaxies, synchrotic	ron radiation, radio	hodels lane and all and a	1963 June p 80-90
astronomy, quasars found to be extra-galactic	1963 Dec. n. 54-62	lymphatic circulation, lymphatic system, intercell	
gravity constant, interplanetary radar-ranging, lu	nar orbit, relativity	The state of the s	titat titilu, tympit nouce,
theory, evidence for decrease of gravitational co	onstant	lymph vessels, lymph ducts, Starlings' hypot	
	1976 Feb n 44_52	body's 'second circulation'	1963 June p 80-90
lunar orbit, day's length, Earth-Moon system, moon	tides	, and the state of	s, tympn vessels, tympa
	1972 Apr. p 42-52	ducts, Starlings' hypothesis, lymphatic circul	ation, lymphedema me
gravity constant, interplanetary radar-ranging, lui	nar occultation		1963 June p 80-90
relativity theory, evidence for decrease of gravit	nai occuntation,	antibodies, thymus, immune system, lymphocy	tes, thymus implant in
training mostly, or defice for decrease of gravit	anonai constant	mouse, humoral factor	1964 July p 66-77
lunar-ranging experiment, Apollo project, laser refle	1976 Feb. p. 44-52	antibody molecule, antigens, B-cells, immune s	ystem, lymphocytes, 1-
motion corner reflector, Fouth Many Property	ction, moon, orbital	cells 19	973 July p 52-60 [1276]
motion, corner reflector, Earth-Moon distance		lymphedema, lymphatic system, intercellular fluid	, lymph nodes, lymph
lungs made Amalla annual 1	1970 Mar. p. 38-49	vessels, lymph ducts, Starlings' hypothesis, ly	mphatic circulation, the
lunar rocks, Apollo project, lunar evolution, space es	xploration	body's 'second circulation'	1963 June p 80-90
toman most a second	1971 Oct p 48-58	lymphocytes, antibody prc	tom DNA,
lunar evolution, moon, solar system. Apollo missie		autoimmune disease,	
	1975 Sept p. 92-102	19	762 Nov. p 50-57 [138]
lunar soil, Apollo project, moon, meteorites, regolith		antibodies, thymus, lymphatic system, immune s	system, thymus implant
history of moon	1970 Aug. p. 14-23	in mouse, humoral factor	1964 July p 00-11
lunar surface, lunar exploration, moon, space explora-	ation, spacecraft	antibody production, antigen-antibody reaction,	RNA synthesis.
design, Ranger missions	1966 Jan p 52-67	immune response, clonal selection theory	
moon, telemetry, space exploration, high-resolutio	n photography,	1964	Dec p 106-115 [199]
Lunar Orbiter space missions	1968 May p 58-78	automatic cell sorting, blood cell analysis, compa	iter analysis, pattern
Ranger 7 photographs	1964 Sept. p 80	recognition, automatic analysis of white cells	1970 Nov p 12-02
Luna 9 photographs	1966 Mar p 56	antibodies, antigen complement, immune respon	se, virus antigens,
Surveyor III radiation analysis	1967 Nov. p. 52	virus disease, autoimmune disease, allergic rea	ction, immune-
lunar surface material, Apollo 11 and 12 samples con		complex disease plomerulonenhritis lymphoc	vue chonomeningius,
•	1970 May p 56	serum sickness 197	3 Jan p 22-31 [1203]
lunar tide, Earth, ionospheric winds, the ionosphere		cell culture cell differentiation cell-surface antique	ens, immune response,
	955 Sept. p 126-138	ımmunoglobin 1973	June p 82-91 [1215]
lung, human physiology, breathing, alveoli, mechanis		antihady malagula antigens R-cells immine syst	em lymphatic
	1960 Jan p 138-148	system T-cells 197.	3 July p 32-00 [1210]
neonatal physiology, breathing, respiration, first br	eath of newborn	antihodies antigens allergic reaction immine res	monse, anaphylactic
	1963 Oct p. 27-38	shock immunology 1973	Nov. p. 34-00 (120-1
gas exchange, thorax, pulmonary ventilation, breatl	hing, alveoli, human	antibodies, bursa, cell differentiation, humoral imi	munity, B-cells, 1-
physiology, vital capacity, mechanics and physio	logy of breathing,	cells, immune system, thymus 1974	Nov p 38-12113003
	Feb p 56-68 [1034]	antibodies, cell membrane, histocomptability, anti	gens, immune
gill, oxygen transfer, carbon dioxide, gas exchange,	water-breathing by	response, immunoglobin, B-cells, T-cells 1976	May p 30-39 [1330]
mammals, breathing, animal experiments in water	er-breathing	Lysenko, genetics, potato virus, virus disease, vernali	
1968 A	Aug. p 66-74 [1123]	the Lysenko affair	1962 NOV P 71""
acute respiratory failure, intensive care, tracheoston	ny, alveolar	receives Stalin Prize	1949 May p 26
collapse, emphysema, pathogenesis and treatmen	t of acute	beginning of the end	1953 Sept p 74
respiratory failure	1969 Nov p 23-29	Lysenko eclipsed, hybrid corn planted in USSR	1956 June p 60 1954 Sept p 82
fetal lungs, infant, hyaline membrane disease, surface	ctant	Lysenko off pedestal, Einstein on in USSR	
	1973 Apr p 74-85	Li senko resurgent, USSR, geneticists barred from	1958 Nov p 60
lung cancer, carcinogenesis, cigarette smoking, tobacco	o, human	meeting	
physiology, coronary disease, effects of smoking	1962 July p 39-51	Lysenkoism, Lamarck, acquired characteristics, genot	ype, evolution
hing collarse alveoli premature infants, lecithin, breat	thing, surface	phenotype, mutation, ostrich calluses, speciation,	horostarictics
tension, surfactant, hyaline membrane disease, so	aplike agents	orthodoxy, Darwinism, experiments in acquired o	1953 Dec p 92-99
regulate surface tension in lungs 19	62 Dec p 120-130		1905 Dec h
lung structure, avian respiratory system, breathing, bird	d bones	Ly sergic acid diethy lamide, see LSD	human nutrition.
1971 D	rec p 12-19 [1430]	lysine, corn, plant breeding, plant protein, agronomy,	ug p 34-42 [1229]
lungfish, evolution, air-breathing fishes, Devonian peri-	od, fish	, , , , , , , , , , , , , , , , , , , ,	1965 Aug P 44
physiology conquest of land-breathing organs		corn, opaque-2 lysine-rich corn lysis, autolysis, lysosomes, enzymes, phagocytosis, chro	mosome breakage.
1968 Oct	p 102-111 [1125]	learner amplication to dispose processes	
Lurgi process, coal gasification, energy resources, gasifi	ication processes,	1967 No	ov p 62-72 [1085]
Hypas process, synthane process, CO2 acceptor pro	ocess, coal	the angular and mes phagocytosis, Diffocytosi	s, metamorphosis,
a a bandanu	7/4 Mai P 17-47	author dispetu a organ "cutcide nat" 1707 P	344 17 (14-14-14-1
hat in hormone hormone hypothalamic hormone,	neuronumorai	autolysis envines phagocytosis, lysis, chromosome t	reakage,
fortune mitigation control therefold-Sillilliding Reliable	MONCH TOXA	ti cocome implication in disease processes	
	2/ b 74-22 (1700)	1707 110	p 62-72 [1085]
Lydian civilization, archeological excavation. Croesus, S	1 June p 124-135	lysozyme, bacterial-cell wall, homeostasis, bacterial cyto	piasm,
		protoplasts, bacteriophage, magena, discerna	June p 132-142
Lyell, evolution, science history, geology, Charles Lyell, 1959 Au	ig. p 98-106 [846]	Issarime 1700	anne le translan
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- · ·		

X-ray crystallography, enzyme-subst	rate complex, protein folding,
amino-acid sequence, three-dimen	sional structure and action of
lysozyme	1966 Nov p 78-90 [1055]
enzyme structure established first tir	ne 1965 July p 46

M

1- -t. - -t. -t. -- Incol alustors Virgo

cluster, Andromeda Galaxy, galactic	1977 Nov p 76–98 [390]
Iacedonia, Nea Nikomedeia, Neolithic vi	llage, clay figurines, domestic
animals, agricultural society, oldest N	leolithic site in Europe
ummuis, agricultural society, ordest 1	1965 Apr p 82-92
Greek civilization, Hellenic art, Pella, m	osaic, capital of Macedonia
	1966 Dec p 98-105
fach bands, contour perception, contrast	perception, neuronal response,
optical illusion, visual perception, Cr.	aik-O'Brien effect
, , , , , , , , , , , , , , , ,	1972 June p 90-101 [543]
Mach cones, shock waves, shadow photog	raphy, speed of sound,
aerodynamics, ballistics	1949 Nov p 14–19
nachine communication, communication	technology, cybernetics,
information theory, language, comm	unication, introduction to
single-topic issue on communication	. 1972 Sept p 30-41 [677]
nachine tool, automatic control, batch pr	ocess, digital-to-analogue
conversion, numerical instructions, a	1952 Sept p 101–114
0.010	1932 Sept p 101-114
automatic control, computer application process production methods	1975 Feb p 22–29
ultraprecision positioner and shaper	1968 Oct p 62
machine wear, Beilby layer, ferrograph ar	
metal fatigue, particles of wear, wear	
MacKenzie river, New World archeology	
migration, 'How man came to North	America' 1951 Jan p 11-15
mackerel shark, heat exchange, rete mira	bile, thermoregulation,
comparative physiology, tuna, warm	-bodied fishes
	1973 Feb p 36-44 [1266]
macroscopic quantum effects, quantum n	nechanics, superfluidity helium,
vortex ring, quantized vortex rings	1964 Dec p 116-122
Magdalenian, Paleolithic Europe, Cro M	
Perigordian, cave paintings	1953 Aug p 30–33
maggot, bacteria, flies, epidemiology, dy	1965 July p 92–99
magic, anthropology, medicine, alkaloid	neuchoactive dries hypnosis
psychiatry, lessons from primitive n	
'magic numbers', atomic nucleus, shell m	
of isotopes	1951 Mar p 22-26
magic squares, number theory, binary ar	ithmetic, prime number,
composite numbers	1951 July p 52–55
'magneplane' vehicle, electromagnetic fli	
induction motor, linear synchronou	
superconductors	1973 Oct p 17–25
magnesium, trace elements, iron, manga nutrition	1953 Jan p 22–25
evidence for its importance as trace el	
magnet, alignment of magnetic domains	1957 Jan p 62
magnetic bands, ocean floor, sea-floor sp	oreading lava, dikes, mid ocean
ndge, the deep-ocean floor	1969 Sept p 126-142 [883]
magnetic bottle, plasma physics, plasma	
magnetically confined plasmas	1957 Oct p 87–94
fusion reactor, nuclear power, plasma	
magnetic pumping, stellerator	1958 Oct p 28–35
electromagnetism, superconductivity, technology, development and appl	, snaped field, materials
rectifiology, development and appr	1962 June p 60–67 {279}
nuclear power, fusion reactor, plasma	
plasma physics	1966 Dec p 21–31
magnetic field, plasma instability, the	ermonuclear reaction, fusion
reactor, anomalous diffusion, nucl	ear power, leakage of plasma
	1967 July p 76-88
nuclear power, fusion reactor, plasm	
magnetic-bubble manner	1972 July p 65–75
magnetic-bubble memories, computer r	nemory, magnetic domains
magnetic bubble memories, charge-cou	1971 June p 78-90
moving surface memories semico	nductor memories.
microelectronics	1977 Sept p 130-145 [378]

```
magnetic-bubble memories
                                                         1969 Oct p 46
magnetic core, oxide semiconductors, integrated circuits, computer
     memory, microelectronics, advent of integrated-circuit
                                                      1967 July p 18-31
     semiconductor memories
magnetic domains, magnetism, iron, cobalt, ferrites
                                                      1955 Jan p 68-73
  electron spin, materials technology, ferromagnetism, hysteresis,
                                                   1967 Sept p 222-234
     magnetic properties of materials
  cobalt-rare earth alloys, magnetism, permanent magnets, anisotropy,
                                                    1970 Dec p 92-100
     Alnico
  computer memory, magnetic-bubble memories
                                                     1971 June p 78-90
magnetic drum, computer memory, ferroelectric crystal memory, ferrite
     cores mercury delay line, magnetic tape
                                                    1955 June p 92-100
magnetic field, cosmic radiation, massive nuclei, high-energy physics,
     Milky Way, particle acceleration, supernovae fundamental research,
                                                1953 Sept p 64-70 [239]
     where do cosmic rays come from?
   electromagnetism magnetism, force-free windings, million gauss field
                                                      1958 Feb p 28-33
   solar magnetism, Zeeman effect, sunspots, mapping changes in solar
                                                      1960 Feb p 52-62
     magnetic field
   Earth core, electromagnetic waves, micropulsations, Earth mantle,
     longest electromagnetic wave
                                                   1962 Mar p 128-137
   Jupiter, Van Allen belts, radio emissions, origin of Jovian radio waves
                                                      1964 July p 34-42
   magnetic resonance, atomic structure, high pressure, electric field of
     atom, behavior of atoms under high pressure 1965 Jan p 102-108
   magnetism, superconductors, Bitter solenoid, U.S. National Magnet
                                                      1965 Apr p 66-78
     Laboratory
   superconductors, Meissner effect, quantum mechanics, magnetic
     impermeability, quantized vortexes, quantum effects in
     superconductors
                                                      1965 Oct p 57-67
   solar magnetism, Sun cycle, photosphere, chromosphere, solar
     atmosphere, 11-year solar cycle explained
                                                     1966 Nov p 54-62
   volcanic rocks, paleomagnetism, geomagnetic reversals, sea-floor
     spreading, reversals of Earth's magnetic field
                                                      1967 Feb p 44-54
   plasma instability, thermonuclear reaction, fusion reactor, magnetic
     bottle, anomalous diffusion, nuclear power, leakage of plasma
                                                      1967 July p 76-88
   Sun, solar atmosphere, sunspots, rotation, eddies, solar atmospheric
     circulation
                                                    1968 Jan p 100-113
   interstellar gas radio 'photographs', Doppler shift, structured in shells
      and filaments rather than clouds
                                                1978 Jan p 74-84 [394]
   intense continuous and pulsed fields
                                                          1965 Jan p 50
 magnetic flotation, ultracentrifuge, angular momentum, ultra-high speed
      rotation, molecular weight determination, 90 million r p s
                                                   1961 Apr p 134-147
 magnetic impermeability, superconductors, Meissner effect, quantum
      mechanics, magnetic field, quantized vortexes, quantum effects in
      superconductors
                                                      1965 Oct p 57-67
 magnetic levitation, electromagnetic flight, transportation, linear
      induction motor, linear synchronous motor, 'magneplane' vehicle,
      superconductors
                                                      1973 Oct p 17-25
   applied to metallurgy
                                                         1952 July p 36
 magnetic moment, antimatter, g factor, electron, electron spin, positron,
      magnetic bottle
                                                      1968 Jan p 72-85
 magnetic monopoles, elementary particles, electromagnetic radiation,
      particle accelerator, search for elementary particle of magnetism
                                                   1963 Dec p 122-131
    observation reported
                                                         1975 Oct p 52
 magnetic pumping, fusion reactor, nuclear power, magnetic bottle, plasma
      confinement, deuterium, tritium, stellerator
                                                      1958 Oct p 28-35
 magnetic resonance, nuclear magnetic resonance, spectroscopy,
      magnetometer, molecular structure, large molecule spectroscopy
                                                1958 Aug. p 58-66 [233]
    atomic structure, high pressure, magnetic field, electric field of atom
      behavior of atoms under high pressure
                                                    1965 Jan p 102-108
 magnetic reversals, Earth geomagnetism remanent magnetism,
      wandering poles, Earth's magnetism
                                                   1955 Sept p 152-162
    ocean floor, geomagnetism magnetometer, patterned magnetic field
      variations in the ocean floor
                                                   1961 Oct p 146-156
    comet, geomagnetism, tektites meteorites, meteoritic impacts
                                                     1967 July p 32-38
    continental drift, sea-floor spreading, crustal movement, earthquakes,
      plate tectonics
                                                1968 Dec p 60-70 [875]
    sea-floor spreading, continental drift, ocean ridges, origin of oceans
                                                1969 Sept p 66-75 [888]
    cosmic collision
                                                         1967 June p 52
```

marnetic senaration, high-gradient margin	
magnetic separation, high-gradient magnetic separation, knohn purification, separation techniques, wastewater purification	artificial satellite, geomagnetism, solar wind, magnetosphere aurora,
sopulation techniques, wastewater purification	Orbital motion 1065 Mar n 50 cc
magnetic shear, nuclear power, fusion reactor, plasma confinement,	54 magnetometers on moon, Apollo project, lunar evolution, lunar
magnetic bottle, plasma physics 1966 Dec. n. 21-	magnetism, space exploration 1971 Aug n 62-73
magnetic storms, aurora, sunspots, cone of avoidance color und	magnetosphere, artificial satellite, geomagnetism Lorentz force solar
rotation, corpuscular streams, cycles in 'solar wind, solar	radiation, Van Allen belts, radiation belts, aurora, physics of Van
1955 Feb p 40-4	Allen bells 1963 May n 84-96
Sun, radio emissions, sunspots, corpuscular streams	Salemie, geomagnetism, solar wing, aurora, magnetometer,
1055 June n. 40 A	orbital motion 1965 Mar n 58-65
magnetic suspension, ultracentrifuge, molecular weight, sedimentation	Beomagnetism, solal fadiation, lonosphere, solal wind
fractionation, oil drive, air drive, 900,000 g, 60 million r p m	physics of the aurora 1965 Dec p 54-62
1951 June p. 42-5	interplanetary space, Mars, Mariner 4, micrometeorites, trapped
magnetic tape, computer memory, ferroelectric crystal memory, ferrite	exploration 1066 May n 62-77
cores, mercury delay line, magnetic drum 1955 June n 92 10	plasma, solar radiation, ionosphere, Earth magnetic field,
communication technology, computer, magneto-optical recording,	geomagnetism harum cloude electric field artificial plasma clouds
recording, playback 1969 Nov p 70-8	2 from rockets 1968 Nov p 80-92
magnetic vortexes, quantum effects, superconductivity, magnetism,	cosmic radiation, interplanetary fields, interplanetary particles, solar
superconductors, macroscopic quantum effect photographed	flares, solar wind, aurora, Van Allen belts, solar system
magnetism, magnetic domains, iron, cobalt, ferrites 1971 Mar p 74-86-73	1975 Sept p 160-173
electrical resistance, superconductivity, cryogenics, upper limit of	o interest of the particular of the property of the particular of
temperature of superconductivity 1957 Nov p 92–103 [227	semimetal, solid-state refrigeration 1964 June p 70-82
electromagnetism, magnetic field, force-free windings, million gauss	, and a second properties, and a second
field 1958 Feb p 28–33	traveling-wave tube, klystron, waveguides, communication, radat 1952 Aug p 43-51
crystal structure, ferrites, materials technology, microwave radiation,	main-sequence stars, extraterrestrial life, stellar evolution, binary stars,
computer memory, industrial applications of iron oxides	probability of extra terrestrial life calculated from astronomical
1960 June n 92-104	numbers 1960 Apr n 55-63
magnetic field, superconductors, Bitter solenoid, US National Magnet	"ar evolution, Red Giant stars, stellar
Laboratory 1965 Apr p 66–78	stellar anatomy, age of cluster stars
high-pressure technology, ultrastrong magnetic fields, explosive	1970 July p 26-39
compression, implosion, flux compression 1965 July p 64-73	maizi 1 -a notatoes
electromagnetism, niobium alloys, superconductors, proton-beam	t p 128-150
focusing, generation of intense magnetic fields	agronomy, crop yields, plant breeding, rice, wheat, rocal id agriculture, plant genetics 1976 Sept. p. 180-194
1967 Mar p 114-123 cobalt-rare earth alloys, permanent magnets, magnetic domains,	agriculture, plant genetics 1976 Sept. p. 180-1976 malaria, sickle cell disease, amino-acid substitution, anemia, hemoglobin
anisotropy, Alnico 1970 Dec p 92–100	manaria, sickie cen disease, amino-acid substitution, anetiua, nemega-
quantum effects, superconductivity, magnetic vortexes,	DDT, WHO, mosquitoes, eradication of malaria 1952 June p 22-25
superconductors, macroscopic quantum effect photographed	Chaga's disease, public health, 'zoonoses', parasitism, trypanosonuasis
1971 Mar p 74-84	filariasis leishmaniasis plague vellow fever, typhus, epidemiology
Earth, decreasing strength of magnetic field 1957 Feb p 64	animal infection and human disease 1960 May p 101-170
see also Earth magnetic field, remanent magnetism and the like	Anopheles mosquito, tropical medicine, Plasmodium, epidemiology,
magnetization patterns, continental drift, earthquake zones, subduction	W H O malaria eradication 1962 May p 86-96
zones, mountain formation, plate tectonics, sea-floor spreading,	biological clock, Plasmodium, parasitism, reproduction, gametocyte, mosquitoes 1970 June p 123-131 [1181]
overview of the new geology 1972 May p 56-68 [900] mountain formation, continental drift, Gondwanaland, Himalaya	mosquito hite vellow fever insect behavior, feeding behavior, feeding
formation, Indian-Ocean formation, plate tectonics, sea-floor	habover of morovitoes 1978 June n 138-148 (1374)
spreading 1973 May p 62–72 [908]	WHO anti-malaria campaign 1949 Apr P 20
magneto-optical recording, communication technology, magnetic tape,	monkey vectors 1960 Sept p 100
computer, recording, playback 1969 Nov p 70-82	
magnetohydrodynamics, heat, plasma, shock tube, solar prominences,	malaria hematology, anemia, sickle cell disease, hemoglobin S, human
very high temperatures 1954 Sept p 132–142	evolution, adaptive benefits of sickle-cell anemia 1956 Aug p 87-94 [1065]
electric arc, plasma jet, heat, 30,000 degrees F torch, applications 1957 Aug p 80-88	malaria plasmodia, starve with milk? 1953 Apr p 30
fusion reactor, nuclear power, plasma containment, pinch effect,	male forther sparmatoroon count birth control evulation timing
thermonuclear reaction, thermonuclear energy for domestic power	1950 May p 10-17
1957 Dec p 73–84 [236]	male paradise, female dominance 1953 Nov p 58
geomagnetism, geophysics, electromagnetism, convection currents,	male sterility, cytoplasmic inheritance, reciprocal crossing maternal inheritance, sex linked traits, non-Mendelian inheritance
Earth core, origin of terrestial magnetism 1958 May p 44-48	paramecium, chloroplast, plastids, cytogene, review of evidence for
ion propulsion, plasma jet, jet velocity, cesium-ion beam, electrical	an extra chromosomal genetics 1900 NOV D 30-37 (57)
propulsion, space exploration 1961 Mar p 57-65 nuclear power, recycling, materials, fusion reactor, fusion torch, energy	biochemistry of seminal plasma 1956 Sept p 110
transformation plasma containment 1971 Feb p 50-64 [340]	malnutration, kwashiorkor, diet food supply, human nutrition
energy transformation, energy demand, fuel-conversion efficiency,	1954 Dec p 46-50
nower name movers steam turbines, gas turbine, internal	food supply, human population, hunger, human nutrition Incapanna eland, capybara manatee, mussels, developing countries,
combustion engine filel cell, solar cells, power, nuclear power,	uporthodox food sources 1967 Fcb p 27-33 [1000]
comparative efficiencies of energy transformation pathways in	corn being plant breeding plant protein, agronomy, human nutrition
industrial civilization 1971 Sept p 148-100 (000) black hole, interstellar gas, neutron stars, pulsar, stellar evolution,	high-lysine corn 1971 Aug p 34-42 [1227]
17/3 100 0 30 40	alcoholism, alcohol metabolism fatty liver, liver function 'empty calonies' acetaldehyde, cirrhosis 1976 Mar p 25–33 [1336]
supernovae, A-ray sources	calories', acetaldehyde, cirrhosis 1976 Mar p 25-33 [1330] developing countries, poverty, hunger, food and agriculture, human
	1970 SCDL D 40-47
[930 Aug. p 3000 [223]	malpractice claims, medical care, surgery, surgical specialties, mortality
geomagnetism, natural resources, mining, mineral prospecting, aerial 1961 June p 151–162	1973 DCDL D 20-70
prospecting prospection reversals patterned magnetic	malpractice insurance, medical care, medical malpractice, doctor-patient 1976 Aug. p. 18–23
ocean floor, geomagnetism, magnetic revelous, p. 1961 Oct p. 146–156 field variations in the ocean floor	relations 1970 Aug p 11-25

Molthusian doctring world nonulation economic develonment	
Malthusian doctrine, world population, economic development	manipulators, remote control, robot, feedback, automatic control,
1950 Feb p 11–15	industrial manipulators 1964 Oct p 88–96
birth control, population growth, developing countries, food	manlike creatures, monsters, Homo monstrosus mythology
production, Julian Huxley on world population growth	1968 Oct. p 112–118
1956 Mar p 64-76 [616]	mannan, algae, xylan, plant cell wall, cellulose, xylan mannan in place of
birth control, celibacy, disease, foundling institutions, infanticide,	cellulose in marine plant tissue 1968 June p 102-108 [1110]
DIFTH CONTROL, CENDACY, disease, rounding histrations, infanticiae,	manned space flight, moon, robot spacecraft 1960 May p 61-69
marriage age, population growth, population control in Europe	acceleration, human physiology, weightlessness, space medicine,
1750-1850 1972 Feb p 92-99 [674]	
mammal, duck-billed platypus, lactogenesis, isotope tracing, milk,	human centrifuge, g stress 1962 Feb p 60-70
synthesis of milk 1957 Oct p 121–128	moon, lunar exploration, lunar landing sites, remote sensing
mammalian brain, cerebral cortex, corpus callosum, brain hemispheres,	1969 Oct p 54–72 [889]
split-brain experiments, monkey, cat, human post-operative subject	project dended as 'stunt' 1960 June p 82
1964 Jan p 42–52 [174]	manoeverable reentry vehicle, see MARV
	manpower policy, employment levels, labor force, US economy, women
brain circuitry, nerve signals, sensory systems, stimulus localization,	an labor force sob exection us sob quality, 1077 Nov. p. 43-51 17011
visual perception, superior colliculus in integration at brain function	in labor force, job creation vs job quality 1977 Nov p 43-51 [701]
1972 Dec p 72-82 [553]	mantis shrimps, animal behavior, marine life, stomatopods
mammalian eggs, embryonic development, oocytogenesis, meiosis,	1976 Jan p 80-89
mitosis, chromosomal anomalies, ovum, in vitro fertilization	manufacturing productivity, robot, assembly, labor-saving devices
1966 Aug. p 72–81 [1047]	computer applications, programmable robot for product assembly
mammalian evolution, reptile, dinosaurs, paleontology, therapsids,	1978 Feb p 62-74 [929]
ichthyosaurs, evolution, origin of mammals 1949 Mar p 40–43	marasmus, diet, fasting, human nutrition, metabolism, starvation,
continental drift, speciation, reptile evolution, radiation, genetic	kwashiorkor, physiology of starvation 1971 Oct p 14–21 [1232]
convergence, Gondwanaland, Laurasia, supercontinent breakup and	marble, architecture, sculpture, erosion, limestone, atmospheric pollution,
animal diversification 1969 Mar p 54-64 [877]	weathering, preservation of stone 1978 June p 126–136 [3012]
animal behavior, hopping energetics, kangaroos, marsupial	Marconi, radio, triode, De Forest, vacuum tube, Fleming valve diode,
1977 Aug. p 78–89 [1366]	rectification, De Forest's 1906 contributions 1965 Mar p 92-100
	marginal farmlands, dust storms, dry-land farming, Great Plains, wind
mammar, gland, lactogenesis, milk, casein, hormonal action, cell	
secretion, composition and synthesis of cow's milk	erosion, agricultural technology 1954 July p 25–29
1969 July p 58–68	marijuana, Cannabis sativa, drug abuse, consciousness, pharmacology,
mammoth-bone deposits, Clovis culture, hunting, Folsom points, New	sociology 1969 Dec p 17–25 [524]
World archeology, elephant extinction 1966 June p 104-112	clinical and psychological effects 1969 Feb p 43
mammoths, glaciation, Ice Age hunters, Mousterian assemblages,	reverse Heisenberg effect 1977 Mar p 64
Ukraine 1974 June p 96–105 [685]	marine algae, biological clock, crabs, diatoms, sand hoppers, tidal-zone
******	organisms, tidal rhythms integration of biological and sidereal
man mammoth cohabitation 1956 Apr p 68	
man-apes, human evolution, Plesianthropus, Australopithecus	cycles 1975 Feb p 70–79 [1316]
Paranthropus, primates, hominids branched from other primates 30	marine biology, Woods Hole, oceanography 1949 Sept p 13-17
million years ago 1948 May p 16–19	food, human nutrition, food from the sea 1949 Oct p 16-19
human evolution, Homo, Australopithecus, Paranthropus,	'false bottom', plankton, sonar, shrimp, heteropod, deep-sea scattering
Plesianthropus 1949 Nov p 20-24 [832]	layer, deep-sea 'layer of life' 1951 Aug p 24-28
	Au 11
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools	Challenger, oceanography 1953 May p 88–94
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71	Challenger, oceanography 1953 May p 88-94 animal communication, fish communication, crustacea whale
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role	Challenger, oceanography 1953 May p 88–94 animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea 1956 Apr p 93–102
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single-	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea abyssal life, ocean abyss, bioluminescence, fauna at 4000 meters 1953 May p 88–94 animal communication, crustacea whale porpoises, animal sounds in the sea 1956 Apr p 93–102
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601]	Challenger, oceanography 1953 May p 88–94 animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea 1956 Apr p 93–102 abyssal life, ocean abyss, bioluminescence, fauna at 4000 meters 1957 Nov p 50–57
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum,	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea abyssal life, ocean abyss, bioluminescence, fauna at 4000 meters 1957 Nov p 50-57 buoyancy, swim bladder, chambered nautilus cuttlebone
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea abyssal life, ocean abyss, bioluminescence, fauna at 4000 meters 1957 Nov p 50–57 buoyancy, swim bladder, chambered nautilus cuttlebone 1960 July p 118–128
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636]	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea abyssal life, ocean abyss, bioluminescence, fauna at 4000 meters 1957 Nov p 50-57 buoyancy, swim bladder, chambered nautilus cuttlebone 1960 July p 118-128 chordates, salpa, natural history 1951 Jan p 150-160
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea abyssal life, ocean abyss, bioluminescence, fauna at 4000 meters 1957 Nov p 50-57 buoyancy, swim bladder, chambered nautilus cuttlebone 1960 July p 118-128 chordates, salpa, natural history 1951 Jan p 150-160
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636] Swartkrans man 1949 Jan p 29	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea abyssal life, ocean abyss, bioluminescence, fauna at 4000 meters 1957 Nov p 50-57 buoyancy, swim bladder, chambered nautilus cuttlebone 1960 July p 118-128 chordates, salpa, natural history 1961 Jan p 150-160 Arctic Ocean ocean circulation telemetry, meteorology, Northeast
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636] Swartkrans man 1949 Jan p 29 man-day, labor capability, muscle power, 'scientific management'	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea abyssal life, ocean abyss, bioluminescence, fauna at 4000 meters 1957 Nov p 50-57 buoyancy, swim bladder, chambered nautilus cuttlebone 1960 July p 118-128 chordates, salpa, natural history 1961 Jan p 150-160 Arctic Ocean ocean circulation telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, Soviet Arctic research
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636] Swartkrans man 1949 Jan p 29 man-day, labor capability, muscle power, 'scientific management' 1971 Oct p 96-103	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea abyssal life, ocean abyss, bioluminescence, fauna at 4000 meters 1957 Nov p 50-57 buoyancy, swim bladder, chambered nautilus cuttlebone 1960 July p 118-128 chordates, salpa, natural history 1961 Jan p 150-160 Arctic Ocean ocean circulation telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, Soviet Arctic research 1961 May p 88-102
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636] Swartkrans man 1949 Jan p 29 man-day, labor capability, muscle power, 'scientific management' 1971 Oct p 96-103 man-machine interface, time-sharing, computer technology, multipe	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea abyssal life, ocean abyss, bioluminescence, fauna at 4000 meters 1957 Nov p 50-57 buoyancy, swim bladder, chambered nautilus cuttlebone 1960 July p 118-128 chordates, salpa, natural history 1961 Jan p 150-160 Arctic Ocean ocean circulation telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, Soviet Arctic research 1961 May p 88-102 animal behavior, fish schooling behavior, sensory systems for parallel
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636] Swartkrans man 1949 Jan p 29 man-day, labor capability, muscle power, 'scientific management' 1971 Oct p 96-103 man-machine interface, time-sharing, computer technology, multipe terminals, multiple users 1966 Sept p 128-140	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea abyssal life, ocean abyss, bioluminescence, fauna at 4000 meters 1957 Nov p 50-57 buoyancy, swim bladder, chambered nautilus cuttlebone 1960 July p 118-128 chordates, salpa, natural history 1961 Jan p 150-160 Arctic Ocean ocean circulation telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, Soviet Arctic research 1961 May p 88-102 animal behavior, fish schooling behavior, sensory systems for parallel orientation 1962 June p 128-138 [124]
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636] Swartkrans man 1949 Jan p 29 man-day, labor capability, muscle power, 'scientific management' 1971 Oct p 96-103 man-machine interface, time-sharing, computer technology, multipe terminals, multiple users 1966 Sept p 128-140 communication, computer language talking computers	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea 1956 Apr p 93–102 abyssal life, ocean abyss, bioluminescence, fauna at 4000 meters 1957 Nov p 50–57 buoyancy, swim bladder, chambered nautilus cuttlebone 1960 July p 118–128 chordates, salpa, natural history 1961 Jan p 150–160 Arctic Ocean ocean circulation telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, Soviet Arctic research 1961 May p 88–102 animal behavior, fish schooling behavior, sensory systems for parallel orientation 1962 June p 128–138 [124] Antarctica oceanography, food chain, krill, blue whale ecology.
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636] Swartkrans man 1949 Jan p 29 man-day, labor capability, muscle power, 'scientific management' 1971 Oct p 96-103 man-machine interface, time-sharing, computer technology, multipe terminals, multiple users 1966 Sept p 128-140 communication, computer language talking computers 1975 Mar p 36-42	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea 1956 Apr p 93–102 abyssal life, ocean abyss, bioluminescence, fauna at 4000 meters 1957 Nov p 50–57 buoyancy, swim bladder, chambered nautilus cuttlebone 1960 July p 118–128 chordates, salpa, natural history 1961 Jan p 150–160 Arctic Ocean ocean circulation telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, Soviet Arctic research 1961 May p 88–102 animal behavior, fish schooling behavior, sensory systems for parallel orientation 1962 June p 128–138 [124] Antarctica oceanography, food chain, krill, blue whale ecology, Antarctic convergence, biological province of Antarctic convergence
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636] Swartkrans man 1949 Jan p 29 man-day, labor capability, muscle power, 'scientific management' 1971 Oct p 96-103 man-machine interface, time-sharing, computer technology, multipe terminals, multiple users 1966 Sept p 128-140 communication, computer language talking computers 1975 Mar p 36-42 management science, assembly lines, mass production, Sweden, work	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea porpoises, animal story porpoises, animal story porpoises, animal sea, sold minimal section, sea, sold porpoises, sea, porpoises, sea, porpoises, sea, porpoises, por
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636] Swartkrans man 1949 Jan p 29 man-day, labor capability, muscle power, 'scientific management' 1971 Oct p 96-103 man-machine interface, time-sharing, computer technology, multipe terminals, multiple users 1966 Sept p 128-140 communication, computer language talking computers 1975 Mar p 36-42 management science, assembly lines, mass production, Sweden, work satisfaction, worker teams, 'scientific management'	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea porpoises, animal sea, sound in the sea porpoises, animal sea, sound in the sea porpoises, animal sea, salpa, natural history porpoises, animal sea, salpa, natural history porpoises, animal sea, salpa, natural history porpoises, animal sea, salpa, porpoises porpoises, animal sea, salpa, porpoises porpoises, animal sea, salpa, porpoises porpoises, animal sea, salpa, porpoises,
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636] Swartkrans man 1949 Jan p 29 man-day, labor capability, muscle power, 'scientific management' 1971 Oct p 96-103 man-machine interface, time-sharing, computer technology, multipe terminals, multiple users 1966 Sept p 128-140 communication, computer language talking computers 1975 Mar p 36-42 management science, assembly lines, mass production, Sweden, work satisfaction, worker teams, 'scientific management' 1975 Mar p 17-23	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea porpoises, animal sounds in the sea alyssal life, ocean abyss, bioluminescence, fauna at 4000 meters 1957 Nov p 50–57 buoyancy, swim bladder, chambered nautilus cuttlebone 1960 July p 118–128 chordates, salpa, natural history 1961 Jan p 150–160 Arctic Ocean ocean circulation telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, Soviet Arctic research 1961 May p 88–102 animal behavior, fish schooling behavior, sensory systems for parallel orientation 1962 June p 128–138 [124] Antarctica oceanography, food chain, krill, blue whale ecology, Antarctic convergence, biological province of Antarctic convergence 1962 Sept p 186–210 biosphere, continental drift, ocean evolution, Pangaea, plate tectonics
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636] Swartkrans man 1949 Jan p 29 man-day, labor capability, muscle power, 'scientific management' 1971 Oct p 96-103 man-machine interface, time-sharing, computer technology, multipe terminals, multiple users 1966 Sept p 128-140 communication, computer language talking computers 1975 Mar p 36-42 management science, assembly lines, mass production, Sweden, work satisfaction, worker teams, 'scientific management' 1975 Mar p 17-23	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea porpoises, animal sounds in the sea alyssal life, ocean abyss, bioluminescence, fauna at 4000 meters 1957 Nov p 50–57 buoyancy, swim bladder, chambered nautilus cuttlebone 1960 July p 118–128 chordates, salpa, natural history 1961 Jan p 150–160 Arctic Ocean ocean circulation telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, Soviet Arctic research 1961 May p 88–102 animal behavior, fish schooling behavior, sensory systems for parallel orientation 1962 June p 128–138 [124] Antarctica oceanography, food chain, krill, blue whale ecology, Antarctic convergence, biological province of Antarctic convergence 1962 Sept p 186–210 biosphere, continental drift, ocean evolution, Pangaea, plate tectonics
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636] Swartkrans man 1949 Jan p 29 man-day, labor capability, muscle power, 'scientific management' 1971 Oct p 96-103 man-machine interface, time-sharing, computer technology, multipe terminals, multiple users 1966 Sept p 128-140 communication, computer language talking computers 1975 Mar p 36-42 management science, assembly lines, mass production, Sweden, work satisfaction, worker teams, 'scientific management' 1975 Mar p 17-23 manatee, malnutration, food supply, human population, hunger, human	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea abyssal life, ocean abyss, bioluminescence, fauna at 4000 meters 1957 Nov p 50–57 buoyancy, swim bladder, chambered nautilus cuttlebone 1960 July p 118–128 chordates, salpa, natural history 1961 Jan p 150–160 Arctic Ocean ocean circulation telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, Soviet Arctic research 1961 May p 88–102 animal behavior, fish schooling behavior, sensory systems for parallel orientation 1962 June p 128–138 [124] Antarctica oceanography, food chain, krill, blue whale ecology, Antarctic convergence, biological province of Antarctic convergence 1962 Sept p 186–210 biosphere, continental drift, ocean evolution, Pangaea, plate tectonics 1974 Apr p 80–89 [912] marine birds, comparative physiology, reptile, adaptation salt excreting
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636] Swartkrans man 1949 Jan p 29 man-day, labor capability, muscle power, 'scientific management' 1971 Oct p 96-103 man-machine interface, time-sharing, computer technology, multipe terminals, multiple users 1966 Sept p 128-140 communication, computer language talking computers 1975 Mar p 36-42 management science, assembly lines, mass production, Sweden, work satisfaction, worker teams, 'scientific management' 1975 Mar p 17-23 manatee, malnutration, food supply, human population, hunger, human nutration, Incapanna, eland, capybara, mussels developing countries, unorthodox food sources 1967 Feb p 27-35 [1068]	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea porpoises, animal story porpoises porpoises, animal sounds in the sea porpoises, animal story porpoises
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636] Swartkrans man 1949 Jan p 29 man-day, labor capability, muscle power, 'scientific management' 1971 Oct p 96-103 man-machine interface, time-sharing, computer technology, multipe terminals, multiple users 1966 Sept p 128-140 communication, computer language talking computers 1975 Mar p 36-42 management science, assembly lines, mass production, Sweden, work satisfaction, worker teams, 'scientific management' 1975 Mar p 17-23 manatee, malnutration, food supply, human population, hunger, human nutration, Incapanna, eland, capybara, mussels developing countries, unorthodox food sources 1967 Feb p 27-35 [1068]	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea abyssal life, ocean abyss, bioluminescence, fauna at 4000 meters 1957 Nov p 50–57 buoyancy, swim bladder, chambered nautilus cuttlebone 1960 July p 118–128 chordates, salpa, natural history 1961 Jan p 150–160 Arctic Ocean ocean circulation telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, Soviet Arctic research 1961 May p 88–102 animal behavior, fish schooling behavior, sensory systems for parallel orientation 1962 June p 128–138 [124] Antarctica oceanography, food chain, krill, blue whale ecology, Antarctic convergence, biological province of Antarctic convergence 1962 Sept p 186–210 biosphere, continental drift, ocean evolution, Pangaea, plate tectonics 1974 Apr p 80–89 [912] marine birds, comparative physiology, reptile, adaptation salt excreting glands 1959 Jan p 109–116 phalarope sexual behavior, animal behavior, parental care sex role
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636] Swartkrans man 1949 Jan p 29 man-day, labor capability, muscle power, 'scientific management' 1971 Oct p 96-103 man-machine interface, time-sharing, computer technology, multipe terminals, multiple users 1966 Sept p 128-140 communication, computer language talking computers 1975 Mar p 36-42 management science, assembly lines, mass production, Sweden, work satisfaction, worker teams, 'scientific management' 1975 Mar p 17-23 manatee, malnutrition, food supply, human population, hunger, human nutrition, Incaparina, eland, capybara, mussels developing countries, unorthodox food sources 1967 Feb p 27-35 [1068] Manchester, high energy physics, Birmingham report on visit by	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea porpoises, animal sea, sound at 4000 meters porpoises, animal sea, porpoises porpoises, animal sea, porpoises porpoises, animal sea, porpoises, found at 4000 meters porpoises, animal sea, porpoises porpoises, animal sea, porpoises, porpoises, found at 4000 meters porpoises, animal sea, porpoises, porpoises, found at 4000 meters porpoises, animal sea, porpoises, porpoises, found at 4000 meters porpoises, animal sea, porpoises, porpoises, found at 4000 meters porpoises, animal sea, porpoises, p
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636] Swartkrans man 1949 Jan p 29 man-day, labor capability, muscle power, 'scientific management' 1971 Oct p 96-103 man-machine interface, time-sharing, computer technology, multipe terminals, multiple users 1966 Sept p 128-140 communication, computer language talking computers 1975 Mar p 36-42 management science, assembly lines, mass production, Sweden, work satisfaction, worker teams, 'scientific management' 1975 Mar p 17-23 manatee, malnutrition, food supply, human population, hunger, human nutrition, Incapanna, eland, capybara, mussels developing countries, unorthodox food sources 1967 Feb p 27-35 [1068] Manchester, high energy physics, Birmingham report on visit by Leopold Infeld	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea 1956 Apr p 93–102 abyssal life, ocean abyss, bioluminescence, fauna at 4000 meters 1957 Nov p 50–57 buoyancy, swim bladder, chambered nautilus cuttlebone 1960 July p 118–128 chordates, salpa, natural history 1961 Jan p 150–160 Arctic Ocean ocean circulation telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, Soviet Arctic research 1961 May p 88–102 animal behavior, fish schooling behavior, sensory systems for parallel orientation 1962 June p 128–138 [124] Antarctica oceanography, food chain, krill, blue whale ecology, Antarctic convergence, biological province of Antarctic convergence 1962 Sept p 186–210 biosphere, continental drift, ocean evolution, Pangaea, plate tectonics 1974 Apr p 80–89 [912] marine birds, comparative physiology, reptile, adaptation salt excreting glands phalarope sexual behavior, animal behavior, parental care sex role hormone 1969 June p 104–111 marine ecology, eelgrass foodchain, ecology, fungal infection account of
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636] Swartkrans man 1949 Jan p 29 man-day, labor capability, muscle power, 'scientific management' 1971 Oct p 96-103 man-machine interface, time-sharing, computer technology, multipe terminals, multiple users 1966 Sept p 128-140 communication, computer language talking computers 1975 Mar p 36-42 management science, assembly lines, mass production, Sweden, work satisfaction, worker teams, 'scientific management' 1975 Mar p 17-23 manatee, malnutrition, food supply, human population, hunger, human nutrition, Incaparina, eland, capybara, mussels developing countries, unorthodox food sources 1967 Feb p 27-35 [1068] Manchester, high energy physics, Birmingham report on visit by Leopold Infeld 1949 Nov p 40-43 Mandarin Chinese, Chinese language, Chinese writing tones computer	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea porpoises, animal sounds in the sea alyssal life, ocean abyss, bioluminescence, fauna at 4000 meters 1957 Nov p 50–57 buoyancy, swim bladder, chambered nautilus cuttlebone 1960 July p 118–128 chordates, salpa, natural history 1961 Jan p 150–160 Arctic Ocean ocean circulation telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, Soviet Arctic research 1961 May p 88–102 animal behavior, fish schooling behavior, sensory systems for parallel orientation 1962 June p 128–138 [124] Antarctica oceanography, food chain, krill, blue whale ecology, Antarctic convergence, biological province of Antarctic convergence 1962 Sept p 186–210 biosphere, continental drift, ocean evolution, Pangaea, plate tectonics 1974 Apr p 80–89 [912] marine birds, comparative physiology, reptile, adaptation salt excreting glands 1959 Jan p 109–116 phalarope sexual behavior, animal behavior, parental care sex role hormone 1969 June p 104–111 marine ecology, eelgrass foodchain, ecology, fungal infection account of an ecological catastrophe
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636] Swartkrans man 1949 Jan p 29 man-day, labor capability, muscle power, 'scientific management' 1971 Oct p 96-103 man-machine interface, time-sharing, computer technology, multipe terminals, multiple users 1966 Sept p 128-140 communication, computer language talking computers 1975 Mar p 36-42 management science, assembly lines, mass production, Sweden, work satisfaction, worker teams, 'scientific management' 1975 Mar p 17-23 manatee, malnutrition, food supply, human population, hunger, human nutrition, Incaparina, eland, capybara, mussels developing countries, unorthodox food sources 1967 Feb p 27-35 [1068] Manchester, high energy physics, Birmingham report on visit by Leopold Infeld 1949 Nov p 40-43 Mandarin Chinese, Chinese language, Chinese writing tones computer translation, Chinese diafects 1973 Feb p 50-60	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea porpoises, animal sea, sound at 4000 meters porpoises policy p 138–128 policy p 118–128 policy p 118–128 policy p 118–128 policy p 160 July p 118–128 policy p 160 July p 150–160 policy p 160 July p 160 Jul
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636] Swartkrans man 1949 Jan p 29 man-day, labor capability, muscle power, 'scientific management' 1971 Oct p 96-103 man-machine interface, time-sharing, computer technology, multipe terminals, multiple users 1966 Sept p 128-140 communication, computer language talking computers 1975 Mar p 36-42 management science, assembly lines, mass production, Sweden, work satisfaction, worker teams, 'scientific management' 1975 Mar p 17-23 manatee, malnutrition, food supply, human population, hunger, human nutrition, Incaparina, eland, capybara, mussels developing countries, unorthodox food sources 1967 Feb p 27-35 [1068] Manchester, high energy physics, Birmingham report on visit by Leopold Infeld 1949 Nov p 40-43 Mandarin Chinese, Chinese language, Chinese writing tones computer translation, Chinese dialects 1973 Feb p 50-60 manganese, trace elements, iron, zinc, copper, magnesium, iodine, human	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea abyssal life, ocean abyss, bioluminescence, fauna at 4000 meters 1957 Nov p 50–57 buoyancy, swim bladder, chambered nautilus cuttlebone 1960 July p 118–128 chordates, salpa, natural history 1961 Jan p 150–160 Arctic Ocean ocean circulation telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, Soviet Arctic research 1961 May p 88–102 animal behavior, fish schooling behavior, sensory systems for parallel orientation 1962 June p 128–138 [124] Antarctica oceanography, food chain, krill, blue whale ecology, Antarctic convergence, biological province of Antarctic convergence 1962 Sept p 186–210 biosphere, continental drift, ocean evolution, Pangaea, plate tectonics 1974 Apr p 80–89 [912] marine birds, comparative physiology, reptile, adaptation salt excreting glands 1959 Jan p 109–116 phalarope sexual behavior, animal behavior, parental care sex role hormone 1969 June p 104–111 marine ecology, eelgrass foodchain, ecology, fungal infection account of an ecological catastrophe 1951 Jan p 52–55 algal bloom Dinoflagellata, acetylcholine, nerve poisons poisonous tide
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636] Swartkrans man 1949 Jan p 29 man-day, labor capability, muscle power, 'scientific management' 1971 Oct p 96-103 man-machine interface, time-sharing, computer technology, multipe terminals, multiple users 1966 Sept p 128-140 communication, computer language talking computers 1975 Mar p 36-42 management science, assembly lines, mass production, Sweden, work satisfaction, worker teams, 'scientific management' 1975 Mar p 17-23 manatee, malnutrition, food supply, human population, hunger, human nutrition, Incaparina, eland, capybara, mussels developing countries, unorthodox food sources 1967 Feb p 27-35 [1068] Manchester, high energy physics, Birmingham report on visit by Leopold Infeld 1973 Feb p 50-60 manganese, trace elements, iron, zinc, copper, magnesium, iodine, human nutrition 1953 Jan p 22-25	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea 1956 Apr p 93–102 abyssal life, ocean abyss, bioluminescence, fauna at 4000 meters 1957 Nov p 50–57 buoyancy, swim bladder, chambered nautilus cuttlebone 1960 July p 118–128 chordates, salpa, natural history 1961 Jan p 150–160 Arctic Ocean ocean circulation telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, Soviet Arctic research 1961 May p 88–102 animal behavior, fish schooling behavior, sensory systems for parallel orientation 1962 June p 128–138 [124] Antarctica oceanography, food chain, krill, blue whale ecology, Antarctic convergence, biological province of Antarctic convergence 1962 Sept p 186–210 biosphere, continental drift, ocean evolution, Pangaea, plate tectonics 1974 Apr p 80–89 [912] marine birds, comparative physiology, reptile, adaptation salt excreting glands 1959 Jan p 109–116 phalarope sexual behavior, animal behavior, parental care sex role hormone 1969 June p 104–111 marine ecology, eelgrass foodchain, ecology, fungal infection account of an ecological catastrophe 1951 Jan p 52–55 algal bloom Dinoflagellata, acetylcholine, nerve poisons poisonous tide 1958 Aug. p 92–98 sea food chain, plankton ocean fish, marine life, life in the ocean
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636] Swartkrans man 1949 Jan p 29 man-day, labor capability, muscle power, 'scientific management' 1971 Oct p 96-103 man-machine interface, time-sharing, computer technology, multipe terminals, multiple users 1966 Sept p 128-140 communication, computer language talking computers 1975 Mar p 36-42 management science, assembly lines, mass production, Sweden, work satisfaction, worker teams, 'scientific management' 1975 Mar p 17-23 manatee, malnutrition, food supply, human population, hunger, human nutrition, Incapanna, eland, capybara, mussels developing countries, unorthodox food sources 1967 Feb p 27-35 [1068] Manchester, high energy physics, Birmingham report on visit by Leopold Infeld 1949 Nov p 40-43 Mandarin Chinese, Chinese language, Chinese writing tones computer translation, Chinese dialects 1973 Feb p 50-60 manganese, trace elements, iron, zinc, copper, magnesium, iodine, human nutrition 1953 Jan p 22-25 from slag heaps	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea 1956 Apr p 93–102 abyssal life, ocean abyss, bioluminescence, fauna at 4000 meters 1957 Nov p 50–57 buoyancy, swim bladder, chambered nautilus cuttlebone 1960 July p 118–128 chordates, salpa, natural history 1961 Jan p 150–160 Arctic Ocean ocean circulation telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, Soviet Arctic research 1961 May p 88–102 animal behavior, fish schooling behavior, sensory systems for parallel orientation 1962 June p 128–138 [124] Antarctica oceanography, food chain, krill, blue whale ecology, Antarctic convergence, biological province of Antarctic convergence 1962 Sept p 186–210 biosphere, continental drift, ocean evolution, Pangaea, plate tectonics 1974 Apr p 80–89 [912] marine birds, comparative physiology, reptile, adaptation salt excreting glands 1959 Jan p 109–116 phalarope sexual behavior, animal behavior, parental care sex role hormone 1969 June p 104–111 marine ecology, eelgrass foodchain, ecology, fungal infection account of an ecological catastrophe 1951 Jan p 52–55 algal bloom Dinoflagellata, acetylcholine, nerve poisons poisonous tide 1958 Aug. p 92–98 sea food chain, plankton ocean fish, marine life, life in the ocean
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636] Swartkrans man 1949 Jan p 29 man-day, labor capability, muscle power, 'scientific management' 1971 Oct p 96-103 man-machine interface, time-sharing, computer technology, multipe terminals, multiple users 1966 Sept p 128-140 communication, computer language talking computers 1975 Mar p 36-42 management science, assembly lines, mass production, Sweden, work satisfaction, worker teams, 'scientific management' 1975 Mar p 17-23 manatee, malnutrition, food supply, human population, hunger, human nutrition, Incaparina, eland, capybara, mussels developing countries, unorthodox food sources 1967 Feb p 27-35 [1068] Manchester, high energy physics, Birmingham report on visit by Leopold Infeld 1949 Nov p 40-43 Mandarin Chinese, Chinese language, Chinese writing tones computer translation, Chinese dialects 1973 Feb p 50-60 manganese, trace elements, iron, zinc, copper, magnesium, iodine, human nutrition 1953 Jan p 22-25 from slag heaps 1952 May p 36 manganese nodules, ocean floor, mineral resources mining industry.	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea 1956 Apr p 93–102 abyssal life, ocean abyss, bioluminescence, fauna at 4000 meters 1957 Nov p 50–57 buoyancy, swim bladder, chambered nautilus cuttlebone 1960 July p 118–128 chordates, salpa, natural history 1961 Jan p 150–160 Arctic Ocean ocean circulation telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, Soviet Arctic research 1961 May p 88–102 animal behavior, fish schooling behavior, sensory systems for parallel orientation 1962 June p 128–138 [124] Antarctica oceanography, food chain, krill, blue whale ecology, Antarctic convergence, biological province of Antarctic convergence 1962 Sept p 186–210 biosphere, continental drift, ocean evolution, Pangaea, plate tectonics 1974 Apr p 80–89 [912] marine birds, comparative physiology, reptile, adaptation salt excreting glands 1959 Jan p 109–116 phalarope sexual behavior, animal behavior, parental care sex role hormone 1969 June p 104–111 marine ecology, eelgrass foodchain, ecology, fungal infection account of an ecological catastrophe 1969 June p 104–111 marine ecology, eelgrass foodchain, ecology, fungal infection account of an ecological catastrophe 1951 Jan p 52–55 algal bloom Dinoflagellata, acetylcholine, nerve poisons poisonous tide 1958 Aug. p 92–98 sea food chain, plankton ocean fish, marine life, life in the ocean 1969 Sept p 146–162 [884] marine pollution tar tanker wastes pelagutar.
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636] Swartkrans man 1949 Jan p 29 man-day, labor capability, muscle power, 'scientific management' 1971 Oct p 96-103 man-machine interface, time-sharing, computer technology, multipe terminals, multiple users 1966 Sept p 128-140 communication, computer language talking computers 1975 Mar p 36-42 management science, assembly lines, mass production, Sweden, work satisfaction, worker teams, 'scientific management' 1975 Mar p 17-23 manatee, malnutrition, food supply, human population, hunger, human nutrition, Incaparina, eland, capybara, mussels developing countries, unorthodox food sources 1967 Feb p 27-35 [1068] Manchester, high energy physics, Birmingham report on visit by Leopold Infeld 1949 Nov p 40-43 Mandarin Chinese, Chinese language, Chinese writing tones computer translation, Chinese diafects 1973 Feb p 50-60 manganese, trace elements, iron, zinc, copper, magnesium, iodine, human nutrition 1953 Jan p 22-25 from slag heaps 1952 May p 36 manganese nodules, ocean floor, mineral resources mining industry, minerals on the ocean floor	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea 1956 Apr p 93–102 abyssal life, ocean abyss, bioluminescence, fauna at 4000 meters 1957 Nov p 50–57 buoyancy, swim bladder, chambered nautilus cuttlebone 1960 July p 118–128 chordates, salpa, natural history 1961 Jan p 150–160 Arctic Ocean ocean circulation telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, Soviet Arctic research 1961 May p 88–102 animal behavior, fish schooling behavior, sensory systems for parallel orientation 1962 June p 128–138 [124] Antarctica oceanography, food chain, krill, blue whale ecology, Antarctic convergence, biological province of Antarctic convergence 1962 Sept p 186–210 biosphere, continental drift, ocean evolution, Pangaea, plate tectonics 1974 Apr p 80–89 [912] marine birds, comparative physiology, reptile, adaptation salt excreting glands 1959 Jan p 109–116 phalarope sexual behavior, animal behavior, parental care sex role hormone 1969 June p 104–111 marine ecology, eelgrass foodchain, ecology, fungal infection account of an ecological catastrophe 1961 May p 88–94 1962 Sept p 186–190 1963 Aug. p 92–98 sea food chain, plankton ocean fish, marine life, life in the ocean 1969 Sept p 146–162 [884] marine pollution tar tanker wastes pelagutar.
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636] Swartkrans man 1949 Jan p 29 man-day, labor capability, muscle power, 'scientific management' 1971 Oct p 96-103 man-machine interface, time-sharing, computer technology, multipe terminals, multiple users 1966 Sept p 128-140 communication, computer language talking computers 1975 Mar p 36-42 management science, assembly lines, mass production, Sweden, work satisfaction, worker teams, 'scientific management' 1975 Mar p 17-23 manatee, malnutrition, food supply, human population, hunger, human nutrition, Incaparina, eland, capybara, mussels developing countries, unorthodox food sources 1967 Feb p 27-35 [1068] Manchester, high energy physics, Birmingham report on visit by Leopold Infeld 1949 Nov p 40-43 Mandarin Chinese, Chinese language, Chinese writing tones computer translation, Chinese dialects 1973 Feb p 50-60 manganese, trace elements, iron, zinc, copper, magnesium, iodine, human nutrition 1953 Jan p 22-25 from slag heaps 1952 May p 36 manganese nodules, ocean floor, mineral resources mining industry, minerals on the ocean floor plate tectonics, sea floor spreading, metals mid-ocean ridge	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea possible porpoises, animal sounds in the sea possible porpoises p
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636] Swartkrans man 1949 Jan p 29 man-day, labor capability, muscle power, 'scientific management' 1971 Oct p 96-103 man-machine interface, time-sharing, computer technology, multipe terminals, multiple users 1966 Sept p 128-140 communication, computer language talking computers 1975 Mar p 36-42 management science, assembly lines, mass production, Sweden, work satisfaction, worker teams, 'scientific management' 1975 Mar p 17-23 manatee, malnutrition, food supply, human population, hunger, human nutrition, Incaparina, eland, capybara, mussels developing countries, unorthodox food sources 1967 Feb p 27-35 [1068] Manchester, high energy physics, Birmingham report on visit by Leopold Infeld 1949 Nov p 40-43 Mandarin Chinese, Chinese language, Chinese writing tones computer translation, Chinese dialects 1973 Feb p 50-60 manganese, trace elements, iron, zinc, copper, magnesium, iodine, human nutrition 1953 Jan p 22-25 from slag heaps 1952 May p 36 manganese nodules, ocean floor, mineral resources mining industry, minerals on the ocean floor plate tectonics, sea floor spreading, metals mid-ocean ridge	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea possible porpoises, animal sounds in the sea possible porpoises p
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636] Swartkrans man 1949 Jan p 29 man-day, labor capability, muscle power, 'scientific management' 1971 Oct p 96-103 man-machine interface, time-sharing, computer technology, multipe terminals, multiple users 1966 Sept p 128-140 communication, computer language talking computers 1975 Mar p 36-42 management science, assembly lines, mass production, Sweden, work satisfaction, worker teams, 'scientific management' 1975 Mar p 17-23 manatee, malnutrition, food supply, human population, hunger, human nutrition, Incaparina, eland, capybara, mussels developing countries, unorthodox food sources 1967 Feb p 27-35 [1068] Manchester, high energy physics, Birmingham report on visit by Leopold Infeld 1949 Nov p 40-43 Mandarin Chinese, Chinese language, Chinese writing tones computer translation, Chinese dialects 1973 Feb p 50-60 manganese, trace elements, iron, zinc, copper, magnesium, iodine, human nutrition 1953 Jan p 22-25 from slag heaps 1952 May p 36 manganese nodules, ocean floor, mineral resources mining industry, minerals on the ocean floor, mineral resources mining industry, minerals on the ocean floor, mineral resources mining industry, minerals on the ocean floor, origin of metal deposits on ocean floor 1960 Dec p 64-72 plate tectonics, sea floor spreading, metals, mid-ocean ridge, hydrothermal extraction, origin of metal deposits on ocean floor	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea 1956 Apr p 93–102 abyssal life, ocean abyss, bioluminescence, fauna at 4000 meters 1957 Nov p 50–57 buoyancy, swim bladder, chambered nautilus cuttlebone 1960 July p 118–128 chordates, salpa, natural history 1961 Jan p 150–160 Arctic Ocean ocean circulation telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, Soviet Arctic research 1961 May p 88–102 animal behavior, fish schooling behavior, sensory systems for parallel orientation 1962 June p 128–138 [124] Antarctica oceanography, food chain, krill, blue whale ecology, Antarctic convergence, biological province of Antarctic convergence 1962 Sept p 186–210 biosphere, continental drift, ocean evolution, Pangaea, plate tectonics 1974 Apr p 80–89 [912] marine birds, comparative physiology, reptile, adaptation salt excreting glands 1959 Jan p 109–116 phalarope sexual behavior, animal behavior, parental care sex role hormone 1969 June p 104–111 marine ecology, eelgrass foodchain, ecology, fungal infection account of an ecological catastrophe 1969 June p 104–111 marine ecology, elgrass foodchain, ecology, fungal infection account of an ecological catastrophe 1969 Sept p 146–162 [884] marine pollution tar tanker wastes pelagic tar 1975 June p 90–97 marine ecosystems, climatic change coral reefs energy cycle, fossil reefs reef evolution 1972 June p 54–65 [901] marine engineering, vacht design, hull design towing tank tests sail
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636] Swartkrans man 1949 Jan p 29 man-day, labor capability, muscle power, 'scientific management' 1971 Oct p 96-103 man-machine interface, time-sharing, computer technology, multipe terminals, multiple users 1966 Sept p 128-140 communication, computer language talking computers 1975 Mar p 36-42 management science, assembly lines, mass production, Sweden, work satisfaction, worker teams, 'scientific management' 1975 Mar p 17-23 manatee, malnutrition, food supply, human population, hunger, human nutrition, Incaparina, eland, capybara, mussels developing countries, unorthodox food sources 1967 Feb p 27-35 [1068] Manchester, high energy physics, Birmingham report on visit by Leopold Infeld 1949 Nov p 40-43 Mandarin Chinese, Chinese language, Chinese writing tones computer translation, Chinese dialects 1973 Feb p 50-60 manganese, trace elements, iron, zinc, copper, magnesium, iodine, human nutrition 1953 Jan p 22-25 from slag heaps 1952 May p 36 manganese nodules, ocean floor, mineral resources mining industry, minerals on the ocean floor 1960 Dec p 64-72 plate tectonics, sea floor spreading, metals, mid-ocean ridge, hydrothermal extraction, origin of metal deposits on ocean floor 1978 Feb p 54-61 [929] manic depression, animal behavior, biological clock resorders thished	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea 1956 Apr p 93–102 abyssal life, ocean abyss, bioluminescence, fauna at 4000 meters 1957 Nov p 50–57 buoyancy, swim bladder, chambered nautilus cuttlebone 1960 July p 118–128 chordates, salpa, natural history 1961 Jan p 150–160 Arctic Ocean ocean circulation telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, Soviet Arctic research 1961 May p 88–102 animal behavior, fish schooling behavior, sensory systems for parallel orientation 1962 June p 128–138 [124] Antarctica oceanography, food chain, krill, blue whale ecology, Antarctic convergence, biological province of Antarctic convergence 1962 Sept p 186–210 biosphere, continental drift, ocean evolution, Pangaea, plate tectonics 1974 Apr p 80–89 [912] marine birds, comparative physiology, reptile, adaptation salt excreting glands 1959 Jan p 109–116 phalarope sexual behavior, animal behavior, parental care sex role hormone 1969 June p 104–111 marine ecology, eelgrass foodchain, ecology, fungal infection account of an ecological catastrophe 1951 Jan p 52–55 algal bloom Dinoflagellata, acetylcholine, nerve poisons poisonous tide 1958 Aug. p 92–98 sea food chain, plankton ocean fish, marine life, life in the ocean 1969 Sept p 146–162 [884] marine pollution tar tanker wastes pelagic tar 1975 June p 90–97 marine ecosystems, climatic change coral reefs energy cycle, fossil reefs reef evolution 1972 June p 54–65 [901] marine engineering, vacht design, hull design towing tank tests sail
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636] Swartkrans man 1949 Jan p 29 man-day, labor capability, muscle power, 'scientific management' 1971 Oct p 96-103 man-machine interface, time-sharing, computer technology, multipe terminals, multiple users 1966 Sept p 128-140 communication, computer language talking computers 1975 Mar p 36-42 management science, assembly lines, mass production, Sweden, work satisfaction, worker teams, 'scientific management' 1975 Mar p 17-23 manatee, malnutrition, food supply, human population, hunger, human nutrition, Incaparina, eland, capybara, mussels developing countries, unorthodox food sources 1967 Feb p 27-35 [1068] Manchester, high energy physics, Birmingham report on visit by Leopold Infeld 1949 Nov p 40-43 Mandarin Chinese, Chinese language, Chinese writing tones computer translation, Chinese dialects 1973 Feb p 50-60 manganese, trace elements, iron, zinc, copper, magnesium, iodine, human nutrition 1953 Jan p 22-25 from slag heaps 1952 May p 36 manganese nodules, ocean floor, mineral resources mining industry, minerals on the ocean floor 1960 Dec p 64-72 plate tectonics, sea floor spreading, metals, mid-ocean ridge, hydrothermal extraction, origin of metal deposits on ocean floor 1978 Feb p 54-61 [929] manic depression, animal behavior, biological clock resorders thished	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea 1956 Apr p 93–102 abyssal life, ocean abyss, bioluminescence, fauna at 4000 meters 1957 Nov p 50–57 buoyancy, swim bladder, chambered nautilus cuttlebone 1960 July p 118–128 chordates, salpa, natural history 1961 Jan p 150–160 Arctic Ocean ocean circulation telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, Soviet Arctic research 1961 May p 88–102 animal behavior, fish schooling behavior, sensory systems for parallel orientation 1962 June p 128–138 [124] Antarctica oceanography, food chain, krill, blue whale ecology, Antarctic convergence, biological province of Antarctic convergence 1962 Sept p 186–210 biosphere, continental drift, ocean evolution, Pangaea, plate tectonics 1974 Apr p 80–89 [912] marine birds, comparative physiology, reptile, adaptation salt excreting glands 1959 Jan p 109–116 phalarope sexual behavior, animal behavior, parental care sex role hormone 1969 June p 104–111 marine ecology, eelgrass foodchain, ecology, fungal infection account of an ecological catastrophe 1951 Jan p 52–55 algal bloom Dinoflagellata, acetylcholine, nerve poisons poisonous tide 1958 Aug. p 92–98 sea food chain, plankton ocean fish, marine life, life in the ocean 1969 Sept p 146–162 [884] marine pollution tar tanker wastes pelagic tar 1975 June p 90–97 marine ecosystems, climatic change coral reefs energy cycle, fossil reefs reef evolution 1966 Aug p 60–68 marine farming, food supply fisheries sea-water nutrients upwelling.
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66–71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62–75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28–35 [636] Swartkrans man 1949 Jan p 29 man-day, labor capability, muscle power, 'scientific management' 1971 Oct p 96–103 man-machine interface, time-sharing, computer technology, multipe terminals, multiple users 1966 Sept p 128–140 communication, computer language talking computers 1975 Mar p 36–42 management science, assembly lines, mass production, Sweden, work satisfaction, worker teams, 'scientific management' 1975 Mar p 17–23 manatee, malnutrition, food supply, human population, hunger, human nutrition, Incaparina, eland, capybara, mussels developing countries, unorthodox food sources 1967 Feb p 27–35 [1068] Manchester, high energy physics, Birmingham report on visit by Leopold Infeld Mandarin Chinese, Chinese language, Chinese writing tones computer translation, Chinese dialects 1973 Feb p 50–60 manganese, trace elements, iron, zinc, copper, magnesium, iodine, human nutrition 1953 Jan p 22–25 from slag heaps 1952 May p 36 manganese nodules, ocean floor, mineral resources mining industry, minerals on the ocean floor 1978 Feb p 54–61 [929] manic depression, animal behavior, biological clock, circadian rhythm circannual rhythm hibernation, animal migration	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea abyssal life, ocean abyss, bioluminescence, fauna at 4000 meters 1957 Nov p 50–57 buoyancy, swim bladder, chambered nautilus cuttlebone 1960 July p 118–128 chordates, salpa, natural history 1961 Jan p 150–160 Arctic Ocean ocean circulation telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, Soviet Arctic research 1961 May p 88–102 animal behavior, fish schooling behavior, sensory systems for parallel orientation 1962 June p 128–138 [124] Antarctica oceanography, food chain, krill, blue whale ecology, Antarctic convergence, biological province of Antarctic convergence 1962 Sept p 186–210 biosphere, continental drift, ocean evolution, Pangaea, plate tectionics 1974 Apr p 80–89 [912] marine birds, comparative physiology, reptile, adaptation salt excreting glands 1959 Jan p 109–116 phalarope sexual behavior, animal behavior, parental care sex role hormone 1969 June p 104–111 marine ecology, eligrass foodchain, ecology, fungal infection account of an ecological catastrophe 1951 Jan p 52–55 algal bloom Dinoflagellata, acetylcholine, nerve poisons poisonous tide 1958 Aug. p 92–98 sea food chain, plankton ocean fish, marine life, life in the ocean 1969 Sept p 146–162 [884] marine pollution tar tanker wastes pelagic tar 1975 June p 90–97 marine ecosystems, climatic change coral reefs energy cycle, fossil reefs reef evolution 1972 June p 54–65 [901] marine engineering, vacht design, hull design towing tank tests sail design marine farming, food supply fisheries sea-water nutrients upwelling, fishponds
human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools 1954 Jan p 66-71 toolmakers, Olduvai Gorge, human evolution, cultural evolution, role of tool-making in biological evolution of man, introduction to single- topic issue 1960 Sept p 62-75 [601] primate evolution, hominoid, fossil primates, apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636] Swartkrans man 1949 Jan p 29 man-day, labor capability, muscle power, 'scientific management' 1971 Oct p 96-103 man-machine interface, time-sharing, computer technology, multipe terminals, multiple users 1966 Sept p 128-140 communication, computer language talking computers 1975 Mar p 36-42 management science, assembly lines, mass production, Sweden, work satisfaction, worker teams, 'scientific management' 1975 Mar p 17-23 manatee, malnutrition, food supply, human population, hunger, human nutrition, Incaparina, eland, capybara, mussels developing countries, unorthodox food sources 1967 Feb p 27-35 [1068] Manchester, high energy physics, Birmingham report on visit by Leopold Infeld 1949 Nov p 40-43 Mandarin Chinese, Chinese language, Chinese writing tones computer translation, Chinese dialects 1973 Feb p 50-60 manganese, trace elements, iron, zinc, copper, magnesium, iodine, human nutrition 1953 Jan p 22-25 from slag heaps 1952 May p 36 manganese nodules, ocean floor, mineral resources mining industry, minerals on the ocean floor 1960 Dec p 64-72 plate tectonics, sea floor spreading, metals, mid-ocean ridge, hydrothermal extraction, origin of metal deposits on ocean floor 1978 Feb p 54-61 [929] manic depression, animal behavior, biological clock resorders thished	Challenger, oceanography animal communication, fish communication, crustacea whale porpoises, animal sounds in the sea 1956 Apr p 93–102 abyssal life, ocean abyss, bioluminescence, fauna at 4000 meters 1957 Nov p 50–57 buoyancy, swim bladder, chambered nautilus cuttlebone 1960 July p 118–128 chordates, salpa, natural history 1961 Jan p 150–160 Arctic Ocean ocean circulation telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, Soviet Arctic research 1961 May p 88–102 animal behavior, fish schooling behavior, sensory systems for parallel orientation 1962 June p 128–138 [124] Antarctica oceanography, food chain, krill, blue whale ecology, Antarctic convergence, biological province of Antarctic convergence 1962 Sept p 186–210 biosphere, continental drift, ocean evolution, Pangaea, plate tectonics 1974 Apr p 80–89 [912] marine birds, comparative physiology, reptile, adaptation salt excreting glands 1959 Jan p 109–116 phalarope sexual behavior, animal behavior, parental care sex role hormone 1969 June p 104–111 marine ecology, eelgrass foodchain, ecology, fungal infection account of an ecological catastrophe 1951 Jan p 52–55 algal bloom Dinoflagellata, acetylcholine, nerve poisons poisonous tide 1958 Aug. p 92–98 sea food chain, plankton ocean fish, marine life, life in the ocean 1969 Sept p 146–162 [884] marine pollution tar tanker wastes pelagic tar 1975 June p 90–97 marine ecosystems, climatic change coral reefs energy cycle, fossil reefs reef evolution 1966 Aug p 60–68 marine farming, food supply fisheries sea-water nutrients upwelling.

	•
marine iguana, cichlid fish, rattlesnake, fighting behavior, animal	Mary polar on days
ochavior, comparative psychology, orgy 1961 Dec. p. 112 122 142	Mars, polar cap, desert, atmosphere, climate, 'canals', picture from Earth bound study
marine insect, water strider trainbales 1040 to - 1	1953 May p 65-73 extraterrestrial life, infrared astronomy, Venus, atmospheric windows
marine invertebrates, escape response, starfish lumnets scallen area	Jupiter, moon, spectrometry, history and recent results of infrared
predator relationship, shall, chemical signals	ASTONOMY 10/6 1 20 20
marine life and find at 1972 July p 92-100 [1254	13 C 1 200 Aug p 20-23
marine life, sea, food chain, plankton, marine ecology, ocean, fish, life in the ocean	Ballagation engoagents 1000 to 12 to 12
	space exploration, computer enhancement, telemetry, television
carbon dioxide, neuston, microlayer oceanography, ocean surface, rainwater composition, surfactant 1974 May p. 62–77 [913	Camera computer graphics Mariner IV photographs Marine
	1) topography 1966 Apr p 54-68
	5 interplanetary space, Mariner 4, magnetosphere, micrometeorites
	trapped radiation, atmosphere, solar wind, cosmic radiation, space
marine organisms, cell aggregation, Mesozoa, multicellular organisms	exploration 1966 May p. 62-72
1972 Dec p 94-101 [1262	Venus, atmosphere, space exploration, atmospheric differences
plankton, appendicularians 1976 July p 94-107	
marine pollution, marine ecology, tar, tanker wastes, pelagic tar	
1975 June n 90-97	camera, cratering, surface pictures and map of Mars 1970 May p 26-41
marine resources, ocean floor, ocean, sea power, sea water, introduction	dust storms, terrestrial planets, cratering, tectonic processes, mountain
to single-topic issue on the ocean 1969 Sent in 5465 1879	formation, erosion, hydrology, solar system 1975 Sept p 106-117
marine technology, drilling platforms, ocean, supertankers, submersibles	Martian volcanoes, Mariner 9 findings 1976 Jan p 32-43
containerization, technology and the ocean	interplanetary navigation, navigational accuracy, spacecraft navigation
1969 Sept p 198-217 [887]	Viking missions 1976 June p 58-74
silicone ship coating 1960 Mar. p 90	
marine wax, biological wax, copepod lipids, coral reef wax, metabolic	1977 Feb p 30-37 [352]
fuel, food chain 1975 Mar p 76-86 [1318]	
marine worm, Annelida, feather duster worm, lugworm, biological clock, circadian thythm 1959 June p. 132–142	voyages 1977 July p 34-43
circadian rhythm 1959 June p 132-142 Mariner 2, space exploration, telemetry, Venus, navigation, orbital	extraterrestrial life, space exploration, Viking lander experiments 1977 Nov p 52-61 [389]
motion, high-resolution studies of Venus 1963 July p 70-84	Viking landers, Viking orbiters, Martian surface, Martian winds
Mariner 4, artificial satellite, Mars, space exploration, telemetry,	orbital and ground photography of Martian landscape
spacecraft navigation, spacecraft 1966 Mar p 42-52	1978 Mar p 76-89 [399]
interplanetary space, Mars, magnetosphere, micrometeorites, trapped	close approach 1955 Sept p 70
radiation, atmosphere, solar wind, cosmic radiation, space	weather topography 1957 Feb p 64
exploration 1966 May p 62-72	Martian water vapor 1963 Aug p 52
Mariner 6, Mars, Mariner 7, telemetry, orbital motion, polar cap,	first data from Mariner IV 1965 Aug p 42
television camera, cratering, surface pictures and map of Mars	Mariner IV photographs 1965 Sept p 76 Mariner IV photographs 1965 Nov p 49
1970 May p 26-41	1000 C n 07
Mariner 7, Mariner 6, Mars, telemetry, orbital motion, polar cap,	Mariner 7 photographs Mariner 6 and 7 surface pictures 1969 Dec p 52
television camera, cratering, surface pictures and map of Mars 1970 May p 26-41	reddish color, carbon suboxide flakes(7) 1970 Feb p 46
Mars, Phobos photographed 1970 July p 50	radar and spectrometric measurements of tonography
Mariner 7 photographs, Mars 1969 Sept p 97	1970 Mar p ov
Mariner 9 results, Martian topography, Martian atmosphere, planets,	Mariner 7, Phobos photographed 1970 July p 50
solar system, space exploration, polar cap, 'braided' channels, dune	orbiting probes planned 1970 Sept p 80 spacecraft photographs analyzed 1971 Apr p 50
fields, photomosaic, volcanoes on Mars 1973 Jan p 48-69	of the same of the
Mariner spacecraft, Venus expedition 1974 Apr p 48	1077 May p 49
markedness/unmarkedness dyad, verbal communication, communication,	1976 Dec p 34
acoustic formants, phonetics, morphemes, syntax, context sensitivity, invariant/variable dyad 1972 Sept p 72-80	life-experiment ambiguities 1977 Feb p 48
narkers, electronic switching, telephone switching, electromechanical	marchland climate swamp ecology entrophication, wellands natural
switching, electronic replaces electromechanical switch	history of march effect on climate 1908 UCL D 114-122 (577)
1962 July p 132–143	marsupial, opossum, death-simulation, animal behavior, playing possum by opossum and other animals 1950 Jan p 52-55
narket, commerce, agricultural system, peasants, peasant markets in	10 mg v v v v v v v v v v v v v v v v v v
Haiti 1960 Aug p 112–122 [647]	opossum, folklore, natural history animal behavior, hopping energetics, kangaroos, mammalian evolution
narket networks, anthropology, central-place theory, People's Republic	1977 Aug p 78-89 [1366]
of China, Guatemala, rural markets 1975 May p 66-79 market process, decision theory, energy economics, power production,	Marting atmosphere, Martian topography, Mariner 9 results, planets
technology assessment, tort law, economic planning	solar system, space exploration, polar cap, 'braided' channels, dute
[97] Sept p 191-200 [6/1]	fields, photomosaic, volcanoes on Mars 1973 Jan p 40 0
Markos chain mathematics, probability, combinatorial analysis, normal	Mars, dust storms, dry ice fogs, wind erosion, Mariner voyages 1977 July p 34-43
eurie Brownian motion, Pascal's triangle, statistics, probability	Martian moons, Deimos, Mars, Phobos, Manner spacecraft missions
1964 Sept p 92-106	1977 Feb p 30~37 [3,2]
narriage, Africa, sister exchange, marriage contracts 1975 Dec p 84-94	evidence of chandratic composition 1978 Mar p 10
narriage, Artica, sister exchange, disease, foundling institutions, narriage age, birth control, celibacy, disease, foundling institutions, infanticide, Malthusian doctrine, population growth, population	Martian surface, Mars, Viking landers, Viking orbiters Martian winds.
	orbital and ground photography of Martian landscape 1978 Mar p 76-89 [399]
control in Europe 1750 anthropology, Sebei tribe	1978 Mar p 70-07 [37]
1002 400 - 40	Martian topography, Martiner 9 results, Martian atmosphere, planets solar system, space exploration, polar cap, 'braided' channels, dure
narriage partner, girl next door 1953 Aug p 48	fields, photomosaic, volcanoes on Mars 1973 Jan p 40-07
American Negro, Skill Color, blood typing,	No. of the state o
gene, population genetics, genetic inclining of 1954 Oct p 80-85	Massian winde Mace V L Line, VIK (" Marida Surface
death rate, birth rate, vital statistics,	orbital and ground photography of Martian landscape 1978 Mar p 76-89 [399]
marriage rate, abortion, population, death, across registers, York, menarche, infant mortality, 1538-1812, parish registers, York, 1970 Jan p 105-112	MARV: maneuverable reentry vehicle
menarche, infant mortality, 1336-1612, partial 1970 Jan p 105-112	414/454 / A SHINGAW TO THE TO THE TO THE TOTAL THE TOTAL TO THE TOTAL TOTAL TO THE

England

MARV, mutual assured destruction, counterforce strategy, military	glass fiber, synthetic fiber, composite materials, plastics, properties of
expenditures, SALT, arms race, MIRV 1974 May p 20-31	'two-phase' materials 1962 Jan p 124-134 wear, adhesive wear, abrasive wear, corrosion, fatigue wear, surfaces in
maser: microwave amplification by stimulated emission of radiation	sliding contact 1962 Feb p 127–136
maser, atomic clock, ammonia maser, cesium clock, zenith tube, mercury mirror improvements on sidereal time 1957 Feb p 71–82 [225]	electromagnetism, superconductivity, shaped field, magnetic bottle,
mirror, improvements on sidereal time 1957 Feb p 71-82 [225] microwave amplification, stimulated emission, quantum mechanics,	development and applications of supermagnets
coherent radiation, principles and uses of maser	1962 June p 60–67 [279]
1958 Dec p 42-50 [215]	crystal structure, steel alloys, ausform process, heat-treating for
laser, coherent radiation, stimulated emission, first lasers as 'optical	strength 1963 Aug p 72–82
masers' 1961 June p 52–61 [274]	glass metals, ceramics, polymers, chemical band, composite materials,
microwaves, interstellar matter, hydroxyl radical, infrared astronomy,	atom, elements, introduction to single-topic issue on materials 1967 Sept p 68-79
energy levels, protostars, interferometry 1968 Dec p 36-44	crystal structure, solid-state electronics, X-ray crystallography, metals,
cosmic masers, hydroxyl maser, water maser, maser star, interstellar matter, astrophysics, quantum mechanics, 'nature imitates art'	semiconductor, nonmetals, amorphous solid, electrical conductivity
1978 June p 90–105	1967 Sept p 80–89
talking maser 1961 Mar p 91	alloys metals, crystal structure, grain boundaries, lattice defects
stimulated by two photons 1965 Oct p 40	dislocations electron 'gas', nature of metals 1967 Sept p 90-100
see also laser	aluminates ceramics crystal structure, silicates, heat resistance ionic
maser star, maser, cosmic masers, hydroxyl maser, water maser,	bonds, covalent bonds, nature of ceramics 1967 Sept p 112–124
interstellar matter, astrophysics, quantum mechanics, 'nature	amorphous solid, glass, supercooling, crystal structure, geometry of glass, two-phase glasses 1967 Sept p 126–136
imitates art' 1978 June p 90–105 maser telescope, precision of solid-state maser 1958 June p 46	polymers, natural polymers, plastics, cross-linking, covalent bonds
maser telescope, precision of solid-state maser 1958 June p 46 mass, spectroscopy, vacuum, ultra-high vacuum, oil diffusion pump,	1967 Sept p 148–156
sputter-ion pump, cryogenic pump, vacuum down to 10 12 mm of	composite materials, whiskers, fiber glass, two-phase materials, fiber-
mercury 1962 Mar p 78–90	reinforced composites, matrix, eutectics 1967 Sept p 160-176
mass-communication media, communication, message systems, television	heat conduction, phonon thermal waves thermal conductivity, thermal
violence, cultural patterns, sociology, mass communications as social	properties of materials 1967 Sept p 180–188
environment 1972 Sept p 152–160 [679]	electrical conductivity, Fermi surface, semiconductor, quantum
mass communications, elections, public opinion, attitude survey 1953 May p 46-48	mechanics, charge carriers electron mean free path, electrical properties of materials 1967 Sept p 194–204
mass production, assembly lines, Sweden, work satisfaction, worker	solid state physics crystal defects epitaxial growth, surface chemistry,
teams, management science, 'scientific management'	precipitation in solids 'doping', chemical properties of materials
1975 Mar p 17–23	1967 Sept p 210-220
mass spectroscopy, spectroscopy, separation techniques, ion beam	electron spin, ferromagnetism magnetic domains hysteresis magnetic
1953 Mar p 68–74	properties of materials 1967 Sept p 222–234
spectroscopy, age of elements, age of universe element formation,	spectroscopy, color, photoelectric effect, laser, transparency optical properties of materials 1967 Sept p 238–248
nucleochronology, radioactive nuclei, stellar evolution, supernovae 1974 Jan p 69-77	input-output analysis, interchangeability of materials, cost assessment,
mass standard, cesium clock, length standard, time standard temperature	price trends, metals, plastics, competition among materials
standard, interferometry, measurement 1968 June p 50–62	1967 Sept p 254-266
mass transit, underground transport, pneumatic propulsion, railway,	zone refining, zone melting, distribution coefficient, germanium
gravity propulsion, transport by 'pedulum' train 1965 Aug p 30-40	silicon, single crystals purified 1967 Dec p 62–72
railway, traffic patterns, cities commutation automobile,	steel, transformation-induced plasticity, strength ductility 1968 Nov. p. 36-45
transportation, Bay Area Rapid Transit system as model for urban transportation 1965 Sept p 162-174	Dance of the Solids, a poem by John Updike, occasioned by the
urban planning, central city, cities, highway engineering open space,	September 1967 issue 1969 Jan p 130–131
diversity, 'paths' 1965 Sept p 209-219	metalliding, superplasticity, microduplex structure thermomechanical
cities, urban transport, computer modeling personal-transit systems,	processing, grain structure, metals that can be formed like plastics
systems analysis 1969 July p 19–27	1969 Mar p 28–35
massive nuclei, cosmic radiation 1951 May p 26-30 cosmic radiation, high-energy physics, Milky Way, magnetic field,	explosions, shock waves solids, phase transitions 1969 May p 82-91 heat resistance, polymers plastics, aromatic hydrocarbons, high-
particle acceleration, supernovae, fundamental research, where do	temperature-resistant plastics 1969 July p 96–105
cosmic rays come from? 1953 Sept p 64-70 [239]	alloys metalliding diffusion, surface alloy, molten fluoride, electrolysis
massive stars, galaxy, stellar evolution nebulae, stellar associations,	1969 Aug p 38-46
massive stars are short-lived 1956 Feb p 36-41	automobile propulsion, electric power generation, energy storage,
material resources, recycling, biosphere, nonrenewable resources,	composite materials, flywheels 1973 Dec p 17–23
materials, heat, temperature limits, ablation rocket nozzle, turbine	inorganic polymers, polymer structure polymeric sulfur, silicon polymers 1974 Mar. p. 66-74
bucket, high temperatures materials 1954 Sept p 98–106	polymers 1974 Mar p 66-74 corundum, crystal structure, cubic boron nitride, diamond, hardness,
nuclear power, recycling, fusion reactor, fusion torch, energy	Mohs scale 1974 Aug p 62–70
transformation, plasma containment, magnetohydrodynamics	atomic structure, crystallographic techniques 'extended fine structure'
1971 Feb p 50-64 [340]	ellect, X-ray absorption 1976 Apr. p. 96-103
materials technology, catalysis, polymers, industrial chemistry, stereoisomers, synthesizing giant molecules 1957 Sept. p. 98–104	materials wanted, catalogue of dreams 1953 Aug p 40
catalysis, polymers, industrial chemistry, stereoisomers synthesizing	maternal behavior, heartbeat, mother-child interaction, fetal conditioning left-side preference in babyholding 1973 May 24-29
giant molecules 1957 Nov. p. 98–104	maternal deprivation, behavioral psychology, emotional deprivation,
building construction prestressed concrete, architectural engineering	rhesus monkeys, surrogate mother, infant monkey 'love'
crystal structure, metals, aligned crystals alignment of crystals for	1959 June p. 69 74 14701
control of mechanical and magnetic properties	social deprivation, comparative psychology, thesis months are necessity
1959 Apr n 125_141	group, experiments in social deprivation
crystal structure, stress fracture, metallurgy, cracks and fracture	comparative psychology, parental care, emotional development,
1060 Eab m 01 101	autormat behavior early experience and emotional development
crystal structure magnetism, ferrites microwave radiation, computer memory, industrial applications of iron oxides 1960 June p 92-104	Cypermicals with rate 1063 from - 130 144 times
e, is more place grass ceramics amorphous solid properties of glace	material inititiance, Cytopiasmic inheritance reciprocal ground
as 'undercooled liquid 1961 Jan p 92-104	linked traits non-Mendelian inheritance, male sterility, paramecium, chloroplast, plastids, cytogene, review of cytogene for an exiter

chloroplast, plastids, cytogene, review of evidence for an extra-

chromosomal genetics 1950 Nov. p 30-39 [39] cytoplasmic inheritance, extranuclear DNA, mitochondria, chloroplasi	
Chlamydomonas 1965 Ian n 70-70 11000	Desargue's theorem, Pascal's theorem, projective peometry as
Chiamydomonas 1965 Jan p 70-79 [1002 maternal mortality, abortion, birth control, infant mortality, public	systematized by Poncelet and Klein 1955 Ian n 80-86
opinion, legal status, incidence in U.S and other countries	Monte Carlo method, Buffon needle problem random numbers,
1060 Inn - 01 07 1100	probability 1955 May p 90-96
1969 Jan p 21-27 [1129 abortion, population, birth control, public health, infant mortality,	straight line, Euclidean geometry, geometry, curved line, reach and
international comparison of experience with legalization of abortion	limits of axiomatic approach 1956 Mar p 104-114
tomparison of experience with legalization of abortion	logic, Carroll, Dodgson, 'Alice in Wonderland', Lewis Carroll (Charles
1977 Jan p 21-27 [1348 mathematical concepts, child development, how children form	Lutwidge Dodgson), biography 1956 Apr p 116-128
	Godel's proof, logic, paradox, philosophy of science, undecidable
72 740	problems in axioms of arithmetic 1956 June p 71-86
mathematical creation, essay by Henri Poincare 1948 Aug p 54-5	I haveflause of the second
mathematical invention, creativity, set theory, analytic geometry, Fermat's last theorem, innovation in mathematics 1958 Sept. p. 66–73	mathematics 1956 Dec p 162-166
last theorem, innovation in mathematics 1958 Sept p 66-73	
mathematical logic, antinomy, paradox, logic, barber paradox, undecidable questions, Godel's proof, Grelling's paradox,	the mathematical collective self-styled Bourbaki 1957 May p 88-99
Enimenides' paradox, Zeno's perodox, Orening's paradox,	prime number, science history, sieve of Eratosthenes, mathematical
Epimenides' paradox, Zeno's paradox, paradox and foundations of logic	sieves and their uses 1958 Dec p 105-112
games theory, paradox, decision theory, 'metalogic' to solve paradox	Descartes, biography 1959 Oct p 160-173
Godel's proof matelone and add the series 1967 July p 50–56	
Godel's proof, metalogic, undecidable questions 1971 Mar. p 50-60	
formalism, infinitesimals, Platonism, real-number line	applied mathematics, introduction to single-topic issue on mathematics
1971 Aug p 92–99	1964 Sept p 40-49
calculus, Euclidean geometry, falling-stone problem, infinitesimals,	number theory, negative numbers, irrational numbers, complex
method of exhaustion, nonstandard analysis 1972 June p 78-86	numbers, matrix 1964 Sept p 50-59
mathematical model, linear programming, decision theory	geometry, topology, non-Euclidian geometry, conic sections, history
physics physical models are truth and all p 21–23	and current uses of geometry 1964 Sept p 60-69
physics, physical models, creativity, innovation in physics	algebra, science history, matrix, vector 1964 Sept p 70-78
geology, tectonic processes, scaling, block fault, geosyncline,	probability, combinatorial analysis, normal curve, Brownian motion
	Markov chain, Pascal's triangle, statistics, probability theory 1964 Sept p 92-108
experimental geology 1961 Feb p 96–106 vehicular traffic flow, urban transport, traffic theory, modeling auto	1904 Sept p 72 to
flow patterns 1963 Dec p 35–43	physical sciences, group theory, 'eightfold way', field theory, S matrix theory, mathematics in physics 1964 Sept p 128-146
Monte Carlo method, gas kinetics, computer modeling, chemistry by	theory, mathematics in physics 1964 Sept p 128-140 biological sciences, self-reproducing machine, nerve impulse,
computer 1964 July p 100–108	predation, Turing machine, automata theory, mathematics in biology
economics, social sciences, decision theory, mathematics in economics	1964 Sept p 148-164
and other social sciences 1964 Sept p 168–182	control theory, cybernetics computer programming feedback,
	to all out
computer modeling, glant molecules, cytochrome helix, myoglobin.	frequency response, stability, dynamic programming policy
computer modeling, giant molecules, cytochrome helix, myoglobin,	frequency response, stability, dynamic programming 'policy' concept 1964 Sept p 186-200
' 'ng, DNA 1966 June p 42-52 [1043]	concept 1964 Sept p 180-200 arithmetic computer history computer's contribution to mathematics
³ ng, DNA 1966 June p 42–52 [1043]	concept 1964 Sept p 180-200 arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216
' 'ng, DNA 1966 June p 42–52 [1043] ca phenomena, topology	concept 1964 Sept p 186-200 arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction
ra, DNA 1966 June p 42–52 [1043] ca phenomena, topology 1976 Apr p 65–83	concept 1964 Sept p 186-2w arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110
rag, DNA 1966 June p 42-52 [1043] ca phenomena, topology 1976 Apr p 65-83 area-minimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82-93 mathematical philosophy, mathematical proof, foundations of	concept 1964 Sept p 186-200 arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus everted sphere proof
ca phenomena, topology 1976 Apr p 65-83 area-minimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82-93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112-127	concept 1964 Sept p 186-200 arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120
ca phenomena, topology 1976 Apr p 65-83 area-munimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82-93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112-127 mathematical proof, probability, law of large numbers, gambler's fallacy,	concept 1964 Sept p 186-200 arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non-
ca phenomena, topology 1976 Apr p 65-83 area-munimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 Apr p 65-83 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112-127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44-47	arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non-Euclidian geometry, axiom of choice 1967 Dec p 104-116
ca phenomena, topology 1976 Apr p 65-83 area-munimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 Apr p 65-83 area-munimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82-93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112-127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44-47 probability, statistics, fundamental reasoning, fundamental research,	arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non-Euclidian geometry, axiom of choice 1967 Dec p 104-116
ca phenomena, topology 1976 Apr p 65–83 area-minimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82–93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112–127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44–47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128–138	arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non-Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography
ca phenomena, topology 1976 Apr p 65–83 area-minimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82–93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112–127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44–47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128–138 foundations of mathematics, mathematical philosophy, set theory	arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non- Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100 queues, traffic, operations research, computer time sharing
ca phenomena, topology 1976 Apr p 65–83 area-munimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82–93 mathematical philosophy, mathematical proof, foundations of mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44–47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128–138 foundations of mathematics, mathematical philosophy, set theory 1964 Sept p 112–127	arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non- Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100 queues, traffic, operations research, computer time sharing applications of queuing theory 1968 Aug p 96-103 symbolic logic, Dodgson, barber paradox, paradox 1972 July p 38-46
ca phenomena, topology 1976 Apr p 65-83 area-minimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82-93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112-127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44-47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128-138 foundations of mathematics, mathematical philosophy, set theory 1964 Sept p 112-127 grammar, truth, logic, philosophy, sentence, metalogic, antimony of the	arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non- Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100 queuès, traffic, operations research, computer time sharing applications of queuing theory 1968 Aug p 96-103 symbolic logic, Dodgson, barber paradox, paradox 1972 July p 38-46 Chiefe remainder theory, computability theory Diophantine
ca phenomena, topology 1976 Apr p 65–83 area-munimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82–93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112–127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44–47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128–138 foundations of mathematics, mathematical philosophy, set theory 1964 Sept p 112–127 grammar, truth, logic, philosophy, sentence, metalogic, antimony of the liar, proof and truth 1969 June p 63–77	anthmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non- Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100 queues, traffic, operations research, computer time sharing applications of queuing theory 1968 Aug p 96-103 symbolic logic, Dodgson, barber paradox, paradox 1972 July p 38-46 Chinese remainder theory, computability theory, Diophantine
ca phenomena, topology 1976 Apr p 65-83 area-munimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 Apr p 65-83 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112-127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44-47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128-138 foundations of mathematics, mathematical philosophy, set theory 1964 Sept p 112-127 grammar, truth, logic, philosophy, sentence, metalogic, antimony of the liar, proof and truth 1969 June p 63-77 incompleteness theory, algorithms, random numbers, algorithmic definition of randomness 1975 May p 47-52	arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non- Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100 queues, traffic, operations research, computer time sharing applications of queuing theory 1968 Aug p 96-103 symbolic logic, Dodgson, barber paradox, paradox 1972 July p 38-46 Chinese remainder theory, computability theory, Diophantine equations, Hilbert program 1973 Nos p 84-91 arms-race soothsaying 1951 Dec p 35
ca phenomena, topology 1976 Apr p 65–83 area-munimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 Apr p 65–83 area-munimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82–93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112–127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44–47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128–138 foundations of mathematics, mathematical philosophy, set theory 1964 Sept p 112–127 grammar, truth, logic, philosophy, sentence, metalogic, antimony of the liar, proof and truth 1969 June p 63–77 incompleteness theory, algorithms, random numbers, algorithmic definition of randomness 1975 May p 47–52 four-color-map problem, foundations of mathematics, proof by	anthmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non- Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100 queues, traffic, operations research, computer time sharing applications of queuing theory 1968 Aug p 96-103 symbolic logic, Dodgson, barber paradox, paradox 1972 July p 38-46 Chinese remainder theory, computability theory, Diophantine equations, Hilbert program 1973 Not p 84-91 arms-race soothsaying set theory or 'modal logics' 1967 Apr p 52
ca phenomena, topology 1976 Apr p 65–83 area-minimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82–93 mathematical philosophy, mathematical proof, foundations of mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44–47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128–138 foundations of mathematics, mathematical philosophy, set theory 1964 Sept p 112–127 grammar, truth, logic, philosophy, sentence, metalogic, antimony of the liar, proof and truth 1969 June p 63–77 incompleteness theory, algorithms, random numbers, algorithmic definition of randomness 1975 May p 47–52 four-color-map problem, foundations of mathematics, proof by computer 1977 Oct p 108–121 [387]	arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non-Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100 queues, traffic, operations research, computer time sharing applications of queuing theory 1968 Aug p 96-103 symbolic logic, Dodgson, barber paradox, paradox 1972 July p 38-46 Chinese remainder theory, computability theory, Diophantine equations, Hilbert program 1973 Nor p 84-91 arms-race soothsaying 1951 Dec p 35 set theory or 'modal logics' 1967 Apr p 52 see also probability, topology, statistics and the like
ca phenomena, topology 1976 Apr p 65–83 area-minimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82–93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112–127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44–47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128–138 foundations of mathematics, mathematical philosophy, set theory 1964 Sept p 112–127 grammar, truth, logic, philosophy, sentence, metalogic, antimony of the liar, proof and truth 1969 June p 63–77 incompleteness theory, algorithms, random numbers, algorithmic definition of randomness 1975 May p 47–52 four-color-map problem, foundations of mathematics, proof by computer 1977 Oct p 108–121 [387]	arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non- Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100 queues, traffic, operations research, computer time sharing applications of queuing theory 1968 Aug p 96-103 symbolic logic, Dodgson, barber paradox, paradox 1972 July p 38-46 Chinese remainder theory, computability theory, Diophantine equations, Hilbert program 1973 Nos p 84-91 arms-race soothsaying 1951 Dec p 35 set theory or 'modal logics' 1967 Apr p 52 see also probability, topology, statistics and the like mathematics education, cardinal numbers, child development
ca phenomena, topology 1976 Apr p 65-83 area-munimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82-93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112-127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44-47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128-138 foundations of mathematics, mathematical philosophy, set theory 1964 Sept p 112-127 grammar, truth, logic, philosophy, sentence, metalogic, antimony of the har, proof and truth 1969 June p 63-77 incompleteness theory, algorithms, random numbers, algorithmic definition of randomness 1975 May p 47-52 four-color-map problem, foundations of mathematics, proof by computer 1977 Oct p 108-121 [387] mathematical surfaces, area-minimizing principle, measure theory,	arithmetic, computer history, computer's contribution to mathematics in theorems, topology, surface deformation, contraction 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non-Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100 queues, traffic, operations research, computer time sharing applications of queuing theory 1968 Aug p 96-103 symbolic logic, Dodgson, barber paradox, paradox 1972 July p 38-46 Chinese remainder theory, computability theory, Diophantine equations, Hilbert program 1973 Nos p 84-91 arms-race soothsaying 1951 Dec p 35 set theory or 'modal logics' 1967 Apr p 52 see also probability, topology, statistics and the like mathematics education, cardinal numbers, child development
ca phenomena, topology 1976 Apr p 65–83 area-munimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82–93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112–127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44–47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128–138 foundations of mathematics, mathematical philosophy, set theory 1964 Sept p 112–127 grammar, truth, logic, philosophy, sentence, metalogic, antimony of the liar, proof and truth 1969 June p 63–77 incompleteness theory, algorithms, random numbers, algorithmic definition of randomness 1975 May p 47–52 four-color-map problem, foundations of mathematics, proof by computer 1977 Oct p 108–121 [387] mathematical surfaces, area-munimizing principle, measure theory, mathematical model, soap bubbles, surface geometry 1976 July p 82–93	arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non- Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100 queues, traffic, operations research, computer time sharing applications of queuing theory 1968 Aug p 96-103 symbolic logic, Dodgson, barber paradox, paradox 1972 July p 38-46 Chinese remainder theory, computability theory, Diophantine equations, Hilbert program 1973 Nor p 84-91 arms-race soothsaying 1951 Dec p 35 set theory or 'modal logics' 1967 Apr p 52 see also probability, topology, statistics and the like mathematics education, cardinal numbers, child development mathematics history, number concepts, ordinal numbers 1973 Mar p 101-109
ca phenomena, topology 1976 Apr p 65–83 area-munimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82–93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112–127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44–47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128–138 foundations of mathematics, mathematical philosophy, set theory 1964 Sept p 112–127 grammar, truth, logic, philosophy, sentence, metalogic, antimony of the liar, proof and truth 1969 June p 63–77 incompleteness theory, algorithms, random numbers, algorithmic definition of randomness 1975 May p 47–52 four-color-map problem, foundations of mathematics, proof by computer 1977 Oct p 108–121 [387] mathematical surfaces, area-minimizing principle, measure theory, mathematical model, soap bubbles, surface geometry 1976 July p 82–93 mathematics, geometry, topology, quinary system, decimal system,	arithmetic, computer history, computer's contribution to mathematics fixed point theorems, topology, surface deformation, contraction 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non- Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100 queues, traffic, operations research, computer time sharing applications of queuing theory 1968 Aug p 96-103 symbolic logic, Dodgson, barber paradox, paradox 1972 July p 38-46 Chinese remainder theory, computability theory, Diophantine equations, Hilbert program 1973 Nos p 84-91 arms-race soothsaying 1951 Dec p 35 set theory or 'modal logics' 1967 Apr p 52 see also probability, topology, statistics and the like mathematics education, cardinal numbers, child development mathematics history, number concepts, ordinal numbers 1973 Mar p 101-109 mathematics history, Stinivasa Ramanujan, number theory, obituary b) 1948 June p 54-57
ca phenomena, topology 1976 Apr p 65-83 area-minimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 Apr p 65-83 area-minimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82-93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112-127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44-47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128-138 foundations of mathematics, mathematical philosophy, set theory 1964 Sept p 112-127 grammar, truth, logic, philosophy, sentence, metalogic, antimony of the liar, proof and truth 1969 June p 63-77 incompleteness theory, algorithms, random numbers, algorithmic definition of randomness 1975 May p 47-52 four-color-map problem, foundations of mathematics, proof by computer 1977 Oct p 108-121 [387] mathematical surfaces, area-minimizing principle, measure theory, mathematical model, soap bubbles, surface geometry 1976 July p 82-93 mathematics, geometry, topology, quinary system, decimal system, 1948 Dec p 44-49	arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non- Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100 queues, traffic, operations research, computer time sharing applications of queuing theory 1968 Aug p 96-103 symbolic logic, Dodgson, barber paradox, paradox 1972 July p 38-46 Chinese remainder theory, computability theory, Diophantine equations, Hilbert program 1973 Nos p 84-91 arms-race soothsaying 1951 Dec p 35 set theory or 'modal logics' 1967 Apr p 52 see also probability, topology, statistics and the like mathematics ducation, cardinal numbers, child development mathematics history, number concepts, ordinal numbers 1973 Mar p 101-109 mathematics history, Stinivasa Ramanujan, number theory, obituary b) GH Hardy Extended Sept p 186-202-216 1968 Sept p 105-110 1968 May p 94-100 1968 May p 94-100 1967 Dec p 35-104 1967 Apr p 52 1967 Apr p 54-57
ca phenomena, topology 1976 Apr p 65–83 area-munimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82–93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112–127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44–47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128–138 foundations of mathematics, mathematical philosophy, set theory 1964 Sept p 112–127 grammar, truth, logic, philosophy, sentence, metalogic, antimony of the liar, proof and truth 1969 June p 63–77 incompleteness theory, algorithms, random numbers, algorithmic definition of randomness 1975 May p 47–52 four-color-map problem, foundations of mathematics, proof by computer 1977 Oct p 108–121 [387] mathematical surfaces, area-minimizing principle, measure theory, mathematical model, soap bubbles, surface geometry 1976 July p 82–93 mathematics, geometry, topology, quinary system, decimal system, tessellation, knots, primitive mathematics 1948 Dec p 44–49 Fermat, Descartes, mathematics history, analytic geometry, conic	arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non- Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100 queues, traffic, operations research, computer time sharing applications of queuing theory 1968 Aug p 96-103 symbolic logic, Dodgson, barber paradox, paradox 1972 July p 38-46 Chinese remainder theory, computability theory, Diophantine equations, Hilbert program 1973 Nos p 84-91 arms-race soothsaying 1951 Dec p 35 set theory or 'modal logics' 1967 Apr p 52 see also probability, topology, statistics and the like mathematics education, cardinal numbers, child development mathematics history, number concepts, ordinal numbers 1973 Mar p 101-109 mathematics history, Sinivasa Ramanujan, number theory, obituary b) GH Hardy Fermat, Descartes, analytic geometry, conic sections Euler, mathematics
ca phenomena, topology 1976 Apr p 65–83 area-minimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82–93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112–127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44–47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128–138 foundations of mathematics, mathematical philosophy, set theory 1964 Sept p 112–127 grammar, truth, logic, philosophy, sentence, metalogic, antimony of the liar, proof and truth 1969 June p 63–77 incompleteness theory, algorithms, random numbers, algorithmic definition of randomness 1975 May p 47–52 four-color-map problem, foundations of mathematics, proof by computer 1977 Oct p 108–121 [387] mathematical surfaces, area-minimizing principle, measure theory, mathematical model, soap bubbles, surface geometry 1976 July p 82–93 mathematics, geometry, topology, quinary system, decimal system, tessellation, knots, primitive mathematics 1948 Dec p 44–49 Fermat, Descartes, mathematics history, analytic geometry, conic	arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non- Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100 queues, traffic, operations research, computer time sharing applications of queuing theory 1968 Aug p 96-103 symbolic logic, Dodgson, barber paradox, paradox 1972 July p 38-46 Chinese remainder theory, computability theory, Diophantine equations, Hilbert program 1973 Nov p 84-91 arms-race soothsaying 1951 Dec p 35 set theory or 'modal logics' 1967 Apr p 52 see also probability, topology, statistics and the like mathematics education, cardinal numbers, child development mathematics history, number concepts, ordinal numbers Mathematics history, Stinivasa Ramanujan, number theory, obituary b) 1948 June p 54-57 Fermat, Descartes, analytic geometry, conic sections Euler, mathematics cardinal numbers, child development, mathematics education, number
ca phenomena, topology 1976 Apr p 65–83 area-munimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82–93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112–127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44–47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128–138 foundations of mathematics, mathematical philosophy, set theory 1964 Sept p 112–127 grammar, truth, logic, philosophy, sentence, metalogic, antimony of the liar, proof and truth 1969 June p 63–77 incompleteness theory, algorithms, random numbers, algorithmic definition of randomness 1975 May p 47–52 four-color-map problem, foundations of mathematics, proof by computer 1977 Oct p 108–121 [387] mathematical surfaces, area-munimizing principle, measure theory, mathematical model, soap bubbles, surface geometry 1976 July p 82–93 mathematics, geometry, topology, quinary system, decimal system, tessellation, knots, primitive mathematics 1948 Dec p 44–49 Fermat, Descartes, mathematics history, analytic geometry, conic sections, Euler 1949 May p 22–25	anthmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantonian sets, Russell's paradox, Cantor, non- Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100 queues, traffic, operations research, computer time sharing applications of queuing theory 1968 Aug p 96-103 symbolic logic, Dodgson, barber paradox, paradox 1972 July p 38-46 Chinese remainder theory, computability theory, Diophantine equations, Hilbert program 1973 Nos p 84-91 arms-race soothsaying 1951 Dec p 35 set theory or 'modal logics' 1967 Apr p 52 see also probability, topology, statistics and the like mathematics education, cardinal numbers, child development mathematics history, number concepts, ordinal numbers 1973 Mar p 101-109 mathematics history, Srinivasa Ramanujan, number theory, obituary b) G H Hardy 1948 June p 54-57 Fermat, Descartes, analytic geometry, conic sections Euler, mathematics cardinal numbers, child development, mathematics education, number concepts, ordinal numbers
ca phenomena, topology 1976 Apr p 65–83 area-munimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82–93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112–127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44–47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128–138 foundations of mathematics, mathematical philosophy, set theory 1964 Sept p 112–127 grammar, truth, logic, philosophy, sentence, metalogic, antimony of the liar, proof and truth 1969 June p 63–77 incompleteness theory, algorithms, random numbers, algorithmic definition of randomness 1975 May p 47–52 four-color-map problem, foundations of mathematics, proof by computer 1977 Oct p 108–121 [387] mathematical surfaces, area-minimizing principle, measure theory, mathematical model, soap bubbles, surface geometry 1976 July p 82–93 mathematics, geometry, topology, quinary system, decimal system, tessellation, knots, primitive mathematics 1948 Dec p 44–49 Fermat, Descartes, mathematics history, analytic geometry, conic sections, Euler 1949 Jan p 40–45 games theory, decision theory, work of J Von Neumann and O 1949 May p 22–25 Morgenstern	arithmetic, computer history, computer's contribution to mathematics fixed point theorems, topology, surface deformation, contraction 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non- Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100 queues, traffic, operations research, computer time sharing applications of queuing theory 1968 Aug p 96-103 symbolic logic, Dodgson, barber paradox, paradox 1972 July p 38-46 Chinese remainder theory, computability theory, Diophantine equations, Hilbert program 1973 Nos p 84-91 arms-race soothsaying 1951 Dec p 35 set theory or 'modal logics' 1967 Apr p 52 see also probability, topology, statistics and the like mathematics education, cardinal numbers, child development mathematics history, number concepts, ordinal numbers 1973 Mar p 101-109 mathematics history, Stinivasa Ramanujan, number theory, obituary b) G H Hardy 1948 June p 54-57 Fermat, Descartes, analytic geometry, conic sections Euler, mathematics cardinal numbers, child development, mathematics education, number concepts, ordinal numbers
ca phenomena, topology 1976 Apr p 65–83 area-munimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82–93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112–127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44–47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128–138 foundations of mathematics, mathematical philosophy, set theory 1964 Sept p 112–127 grammar, truth, logic, philosophy, sentence, metalogic, antimony of the liar, proof and truth 1969 June p 63–77 incompleteness theory, algorithms, random numbers, algorithmic definition of randomness 1975 May p 47–52 four-color-map problem, foundations of mathematics, proof by computer 1977 Oct p 108–121 [387] mathematical surfaces, area-minimizing principle, measure theory, mathematical model, soap bubbles, surface geometry 1976 July p 82–93 mathematics, geometry, topology, quinary system, decimal system, tessellation, knots, primitive mathematics 1948 Dec p 44–49 Fermat, Descartes, mathematics history, analytic geometry, conic sections, Euler 1949 Jan p 40–45 games theory, decision theory, work of J Von Neumann and O Morgenstern set theory, logic, paradox, non-Euclidian space, non-commutative 1948 May p 22–25 set theory, logic, paradox, non-Euclidian space, non-commutative	arithmetic, computer history, computer's contribution to mathematics fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non- Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100 queues, traffic, operations research, computer time sharing applications of queuing theory 1968 Aug p 96-103 symbolic logic, Dodgson, barber paradox, paradox 1972 July p 38-46 Chinese remainder theory, computability theory, Diophantine equations, Hilbert program 1973 Nov p 84-91 arms-race soothsaying 1951 Dec p 35 set theory or 'modal logics' 1967 Apr p 52 see also probability, topology, statistics and the like mathematics ducation, cardinal numbers, child development mathematics history, number concepts, ordinal numbers GH Hardy Fermat, Descartes, analytic geometry, conic sections Euler, mathematics 1949 Jan p 40-45 cardinal numbers, child development, mathematics education, number concepts, ordinal numbers 1973 Mar p 101-109 Gauss, number theory, Disquisitiones Arithmeticae 1977 July p 122-131 [371]
ca phenomena, topology 1976 Apr p 65–83 area-munimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82–93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112–127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44–47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128–138 foundations of mathematics, mathematical philosophy, set theory 1964 Sept p 112–127 grammar, truth, logic, philosophy, sentence, metalogic, antimony of the liar, proof and truth 1969 June p 63–77 incompleteness theory, algorithms, random numbers, algorithmic definition of randomness 1975 May p 47–52 four-color-map problem, foundations of mathematics, proof by computer 1977 Oct p 108–121 [387] mathematical surfaces, area-minimizing principle, measure theory, mathematical model, soap bubbles, surface geometry 1976 July p 82–93 mathematics, geometry, topology, quinary system, decimal system, tessellation, knots, primitive mathematics 1948 Dec p 44–49 Fermat, Descartes, mathematics history, analytic geometry, conic sections, Euler games theory, decision theory, work of J Von Neumann and O 1949 May p 22–25 Morgenstern set theory, logic, paradox, non-Euclidian space, non-commutative algebra, Hilbert spaces, science, mathematics 1900–1950, 1950 Sept p 40–42	arithmetic, computer history, computer's contribution to mathematics fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non- Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100 queues, traffic, operations research, computer time sharing applications of queuing theory 1968 Aug p 96-103 symbolic logic, Dodgson, barber paradox, paradox 1972 July p 38-46 Chinese remainder theory, computability theory, Diophantine equations, Hilbert program 1973 Nos p 84-91 arms-race soothsaying 1951 Dec p 35 set theory or 'modal logics' 1967 Apr p 52 see also probability, topology, statistics and the like mathematics education, cardinal numbers, child development mathematics history, Stinivasa Ramanujan, number theory, obituary b) GH Hardy Fermat, Descartes, analytic geometry, conic sections Euler, mathematics 1949 Jan p 40-45 cardinal numbers, child development, mathematics education, number concepts, ordinal numbers 1973 Mar p 101-109 Gauss, number theory, Disquisitiones Arithmeticae 1977 July p 122-131 [371] mathematics teaching, education, curriculum reform, high school
ca phenomena, topology 1976 Apr p 65–83 area-munimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82–93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112–127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44–47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128–138 foundations of mathematics, mathematical philosophy, set theory 1964 Sept p 112–127 grammar, truth, logic, philosophy, sentence, metalogic, antimony of the liar, proof and truth 1969 June p 63–77 incompleteness theory, algorithms, random numbers, algorithmic definition of randomness 1975 May p 47–52 four-color-map problem, foundations of mathematics, proof by computer 1977 Oct p 108–121 [387] mathematical surfaces, area-minimizing principle, measure theory, mathematical model, soap bubbles, surface geometry 1976 July p 82–93 mathematics, geometry, topology, quinary system, decimal system, tessellation, knots, primitive mathematics 1948 Dec p 44–49 Fermat, Descartes, mathematics history, analytic geometry, conic sections, Euler games theory, decision theory, work of J Von Neumann and O Morgenstern 1949 May p 22–25 set theory, logic, paradox, non-Euclidian space, non-commutative algebra, Hilbert spaces, science, mathematics 1900-1950. 1950 Sept p 40–42 1952 Aug p 24–27	anthmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantonan sets, Russell's paradox, Cantor, non-Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100 queues, traffic, operations research, computer time sharing applications of queuing theory 1968 Aug p 96-103 symbolic logic, Dodgson, barber paradox, paradox 1972 July p 38-46 Chinese remainder theory, computability theory, Diophantine equations, Hilbert program 1973 Nos p 84-91 arms-race soothsaying 1951 Dec p 35 set theory or 'modal logics' 1967 Apr p 52 see also probability, topology, statistics and the like mathematics education, cardinal numbers, child development mathematics history, number concepts, ordinal numbers 1973 Mar p 101-109 mathematics history, Srinivasa Ramanujan, number theory, obituary b) G H Hardy 1948 June p 54-57 Fermat, Descartes, analytic geometry, conic sections Euler, mathematics cardinal numbers 1973 Mar p 101-109 Gauss, number theory, Disquisitiones Arithmeticae 1973 Mar p 101-109 Gauss, number theory, Disquisitiones Arithmeticae 1973 Mar p 101-109 university sponsored curriculum reform, high school
ca phenomena, topology 1976 Apr p 65–83 area-munimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82–93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112–127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44–47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128–138 foundations of mathematics, mathematical philosophy, set theory 1964 Sept p 112–127 grammar, truth, logic, philosophy, sentence, metalogic, antimony of the liar, proof and truth 1969 June p 63–77 incompleteness theory, algorithms, random numbers, algorithmic definition of randomness 1975 May p 47–52 four-color-map problem, foundations of mathematics, proof by computer 1977 Oct p 108–121 [387] mathematical surfaces, area-minimizing principle, measure theory, mathematical model, soap bubbles, surface geometry 1976 July p 82–93 mathematics, geometry, topology, quinary system, decimal system, tessellation, knots, primitive mathematics 1948 Dec p 44–49 Fermat, Descartes, mathematics history, analytic geometry, conic sections, Euler games theory, decision theory, work of J Von Neumann and O Morgenstern 1949 May p 22–25 set theory, logic, paradox, non-Euclidian space, non-commutative algebra, Hilbert spaces, science, mathematics 1900-1950. 1950 Sept p 40–42 RI Civilization 1952 Aug p 24–27 Civilization 1952 Aug p 24–27	arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non- Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100 queues, traffic, operations research, computer time sharing applications of queuing theory 1968 Aug p 96-103 symbolic logic, Dodgson, barber paradox, paradox 1972 July p 38-46 Chinese remainder theory, computability theory, Diophantine equations, Hilbert program 1973 Nox p 84-91 arms-race soothsaying 1951 Dec p 35 set theory or 'modal logics' 1967 Apr p 52 see also probability, topology, statistics and the like mathematics education, cardinal numbers, child development mathematics history, number concepts, ordinal numbers 1973 Mar p 101-109 mathematics history, Srinivasa Ramanujan, number theory, obituary b) G H Hardy 1948 June p 54-57 Fermat, Descartes, analytic geometry, conic sections Euler, mathematics cardinal numbers, child development, mathematics education, number concepts, ordinal numbers 1973 Mar p 101-109 Gauss, number theory, Disquisitiones Arithmeticae 1977 July p 122-131 [371] mathematics teaching, education, curriculum reform, high school university sponsored curriculum reform, high school 1956 May p 54-74 [238] 1956 May p 54-74 [238]
ca phenomena, topology 1976 Apr p 65–83 area-minimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82–93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112–127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44–47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128–138 foundations of mathematics, mathematical philosophy, set theory 1964 Sept p 112–127 grammar, truth, logic, philosophy, sentence, metalogic, antimony of the har, proof and truth 1969 June p 63–77 incompleteness theory, algorithms, random numbers, algorithmic definition of randomness 1975 May p 47–52 four-color-map problem, foundations of mathematics, proof by computer 1977 Oct p 108–121 [387] mathematical surfaces, area-minimizing principle, measure theory, mathematical model, soap bubbles, surface geometry 1976 July p 82–93 mathematics, geometry, topology, quinary system, decimal system, tessellation, knots, primitive mathematics 1948 Dec p 44–49 Fermat, Descartes, mathematics history, analytic geometry, conic sections, Euler 1949 Jan p 40–45 games theory, decision theory, work of J Von Neumann and O Morgenstern 1949 May p 22–25 set theory, logic, paradox, non-Euclidian space, non-commutative algebra, Hilbert spaces, science, mathematics 1900–1950, 1950 Sept p 40–42 Clifford, science history, life and work of William Kingdon Clifford 1953 Feb p 78–84	arithmetic, computer history, computer's contribution to mathematics fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non- Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100 queues, traffic, operations research, computer time sharing applications of queuing theory 1968 Aug p 96-103 symbolic logic, Dodgson, barber paradox, paradox 1972 July p 38-46 Chinese remainder theory, computability theory, Diophantine equations, Hilbert program 1973 Non p 84-91 arms-race soothsaying 1951 Dec p 35 see also probability, topology, statistics and the like mathematics education, cardinal numbers, child development mathematics history, number concepts, ordinal numbers 1973 Mar p 101-109 mathematics history, Srinivasa Ramanujan, number theory, obituary by GH Hardy 1948 June p 54-57 Fermat, Descartes, analytic geometry, conic sections Euler, mathematics cardinal numbers, child development, mathematics education, number concepts, ordinal numbers 1973 Mar p 101-109 Gauss, number theory, Disquisitiones Arithmeticae 1977 July p 122-131 [371] mathematics teaching, education, curriculum reform, high school university sponsored curriculum reform 1956 May p 54 1956 May p 54 1956 May p 54 1956 July p 50 matrix, mathematics, number theory, negative numbers rirational
ca phenomena, topology 1976 Apr p 65–83 area-minimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82–93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112–127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44–47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128–138 foundations of mathematics, mathematical philosophy, set theory 1964 Sept p 112–127 grammar, truth, logic, philosophy, sentence, metalogic, antimony of the lar, proof and truth 1969 June p 63–77 incompleteness theory, algorithms, random numbers, algorithmic definition of randomness 1975 May p 47–52 four-color-map problem, foundations of mathematics, proof by computer 1977 Oct p 108–121 [387] mathematical surfaces, area-minimizing principle, measure theory, mathematical model, soap bubbles, surface geometry 1976 July p 82–93 mathematics, geometry, topology, quinary system, decimal system, tessellation, knots, primitive mathematics 1948 Dec p 44–49 Fermat, Descartes, mathematics history, analytic geometry, conic sections, Euler games theory, decision theory, work of J Von Neumann and O Morgenstern 1949 May p 22–25 set theory, logic, paradox, non-Euclidian space, non-commutative algebra, Hilbert spaces, science, mathematics 1900–1950. Ri civilization 1952 Aug p 24–27 Clifford, science history, life and work of William Kingdon Clifford 1953 Feb p 78–84 computer, number theory, computer finds five perfect numbers 1953 Mar p 84–86	anthmetic, computer history, computer's contribution to mathematics fixed point theorems, topology, surface deformation, contraction 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non- Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100 queues, traffic, operations research, computer time sharing applications of queuing theory 1968 Aug p 96-103 symbolic logic, Dodgson, barber paradox, paradox 1972 July p 38-46 Chinese remainder theory, computability theory, Diophantine equations, Hilbert program 1973 Nov p 84-91 arms-race soothsaying 1951 Dec p 35 set theory or 'modal logics' 1967 Apr p 52 see also probability, topology, statistics and the like mathematics education, cardinal numbers, child development mathematics history, number concepts, ordinal numbers 1973 Mar p 101-109 mathematics history, Srinivasa Ramanujan, number theory, obituary by GH Hardy 1948 June p 54-57 Fermat, Descartes, analytic geometry, conic sections Euler, mathematics 1949 Jan p 40-45 cardinal numbers, child development, mathematics education, number concepts, ordinal numbers 1973 Mar p 101-109 Gauss, number theory, Disquisitiones Arithmeticae 1973 Mar p 101-109 Gauss, number theory, Disquisitiones Arithmeticae 1973 Mar p 101-109 turned off by arithmetic 1956 May p 64-74 [238] turned off by arithmetic 1956 May p 54 Carnege Corporation funds reform 1958 May p 64-74 [238] turned off by arithmetic 1956 May p 54 Carnege Corporation funds reform 1956 July p 50 matrix, mathematics, number theory, negative numbers irrational
ca phenomena, topology 1976 Apr p 65–83 area-minimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82–93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112–127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44–47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128–138 foundations of mathematics, mathematical philosophy, set theory 1964 Sept p 112–127 grammar, truth, logic, philosophy, sentence, metalogic, antimony of the liar, proof and truth 1969 June p 63–77 incompleteness theory, algorithms, random numbers, algorithmic definition of randomness 1975 May p 47–52 four-color-map problem, foundations of mathematics, proof by computer 1977 Oct p 108–121 [387] mathematical surfaces, area-minimizing principle, measure theory, mathematical model, soap bubbles, surface geometry 1976 July p 82–93 mathematics, geometry, topology, quinary system, decimal system, tessellation, knots, primitive mathematics 1948 Dec p 44–49 Fermat, Descartes, mathematics history, analytic geometry, conic sections, Euler 1949 Jan p 40–45 games theory, decision theory, work of J Von Neumann and O Morgenstern 1949 May p 22–25 set theory, logic, paradox, non-Euclidian space, non-commutative algebra, Hilbert spaces, science, mathematics 1900-1950. R1 Civilization 1953 Peb p 78–84 computer, number theory, computer finds five perfect numbers 1953 Mar p 84–86 computer, number theory, computer finds five perfect numbers	arithmetic, computer history, computer's contribution to mathematics fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non- Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100 queues, traffic, operations research, computer time sharing applications of queuing theory 1968 Aug p 96-103 symbolic logic, Dodgson, barber paradox, paradox 1972 July p 38-46 Chinese remainder theory, computability theory, Diophantine equations, Hilbert program 1973 Nov p 84-91 arms-race soothsaying 1951 Dec p 35 see also probability, topology, statistics and the like mathematics education, cardinal numbers, child development mathematics history, number concepts, ordinal numbers 1973 Mar p 101-109 mathematics history, Srinivasa Ramanujan, number theory, obituary by GH Hardy 1948 June p 54-57 Fermat, Descartes, analytic geometry, conic sections Euler, mathematics cardinal numbers, child development, mathematics education, number concepts, ordinal numbers 1973 Mar p 101-109 Gauss, number theory, Disquisitiones Anthmeticae 1977 July p 122-131 [371] mathematics teaching, education, curriculum reform, high school university sponsored curriculum reform 1958 May p 64-74 [238] turned off by arithmetic 2arnegie Corporation funds reform 1956 July p 50 matrix, mathematics, number theory, negative numbers 1973 rumbers, complex numbers 1964 Sept p 70-78
ca phenomena, topology 1976 Apr p 65–83 area-minimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82–93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112–127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44–47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128–138 foundations of mathematics, mathematical philosophy, set theory 1964 Sept p 112–127 grammar, truth, logic, philosophy, sentence, metalogic, antimony of the har, proof and truth 1969 June p 63–77 incompleteness theory, algorithms, random numbers, algorithmic definition of randomness 1975 May p 47–52 four-color-map problem, foundations of mathematics, proof by computer 1977 Oct p 108–121 [387] mathematical surfaces, area-minimizing principle, measure theory, mathematical model, soap bubbles, surface geometry 1976 July p 82–93 mathematics, geometry, topology, quinary system, decimal system, tessellation, knots, primitive mathematics 1948 Dec p 44–49 Fermat, Descartes, mathematics history, analytic geometry, conic sections, Euler 1949 Jan p 40–45 games theory, decision theory, work of J Von Neumann and O Morgenstern 1949 May p 22–25 set theory, logic, paradox, non-Euclidian space, non-commutative algebra, Hilbert spaces, science, mathematics 1900–1950, 1950 Sept p 40–42 Clifford, science history, life and work of William Kingdon Clifford 1953 Feb p 78–84	anthmetic, computer history, computer's contribution to mathematics fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non- Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100 queues, traffic, operations research, computer time sharing applications of queuing theory 1968 Aug p 96-103 symbolic logic, Dodgson, barber paradox, paradox 1972 July p 38-46 Chinese remainder theory, computability theory, Diophantine equations, Hilbert program 1973 Nov p 84-91 arms-race soothsaying 1951 Dec p 35 set theory or 'modal logics' 1967 Apr p 52 see also probability, topology, statistics and the like mathematics education, cardinal numbers, child development mathematics history, number concepts, ordinal numbers 1973 Mar p 101-109 mathematics history, Srinivasa Ramanujan, number theory, obituary by GH Hardy Fermat, Descartes, analytic geometry, conic sections Euler, mathematics 1949 Jan p 40-45 cardinal numbers, child development, mathematics education, number concepts, ordinal numbers 1973 Mar p 101-109 Gauss, number theory, Disquisitiones Arithmeticae 1973 Mar p 101-109 Gauss, number theory, Disquisitiones Arithmeticae 1973 Mar p 101-109 mathematics teaching, education, curriculum reform, high school university sponsored curriculum reform 1958 May p 64-74 [238] turned off by arithmetic 1956 May p 54 Carnegie Corporation funds reform 1958 May p 64-74 [238] turned off by arithmetic 1956 May p 54 Carnegie Corporation funds reform 1958 May p 64-74 [238] 1964 Sept p 50-59

composite materials, materials technology, whiskers, fiber glass, two-	metrication, metric system for U.S.	1971 Sept p 7
phase materials, fiber-reinforced composites, eutectics	metric system, advantages for industry	1972 May p 4
1967 Sept p 160–176	metrication, US metric conversion act	1976 Mar p 60/
matrix algebra, input-output analysis, interindustry transactions, input-	measuring instruments, automatic test systems, aut	
output coefficient, inverted coefficient, 1947 input-output table of		Sept p 180-190 [381
US economy 1951 Oct p 15–21	mechanical alloying, alloying, metallurgy, metal-po	
matter, wave-particle duality, energy levels, electromagnetic force,	machanical habasing automata theory feedbaal	1976 May p 40-4
nuclear forces, gravitation, field theory, fundamental research,	mechanical behavior, automata theory, feedback, a an imitation of life	
quantum jumps, corpuscular streams, what is matter?		1950 May p 42-4.
1953 Sept p 52–57 [241]	mechanical calculators, abacus, calculating machin	
energy, momentum, high-energy physics, conservation law, conservation laws in particle physics 1963 Oct p 36-45	slide rule, sexton mechanical composition, electronic typesetting, pri	1976 Apr p 104–11:
	typesetting, digital computer, cathode-ray tub	
atoms, elementary particles, electron, neutron, proton, structure of 'ordinary matter' 1967 May p 126-134	applications	1969 May p 60-69
	mechanical energy, energy, power machines, biolog	
matter and antimatter, force of gravity on electrons and positrons 1969 Jan p 48	development, power, introduction to a single-	
matter conservation, conservation law, Helmholtz resonators,		71 Sept p 36–49 [661
ophthalmoscope, science history, Hermann von Helmholtz,	mechanical engineering, bearing, friction, lubricati	
biography 1958 Mar p 94–102	pressurized-contactless bearings	1966 Mar p 60–71
Maunder minimum, carbon 14 abundance, climate, ice ages, solar physics,	mechanical har esting, cotton picker, agricultural t	
sunspots, dendrochronology 1977 May p 80–92 [925]	harvester, hay cuber, cherry picker, grain com	
Maupertuis, least-action principle, natural history, geoid, life and work of	man record, and a second distance of the seco	1967 Aug p 50-59
Pierre-Louis Moreau de Maupertuis 1955 Oct p 100–110	mechanical heart, see artificial heart	1301 1145 p 30 3.
mauveine, dye, science history, coal-tar chemistry, 'Perkin reaction',	mechanics, Newton, calculus, optics, life and work	of Isaac Newton
biography of William Perkin 1957 Feb p 110–117	,	1955 Dec p 73-80
Maxwell's color photograph, color photography, science history, first	mechanization, productivity, capital cost, labor cos	
three-color photograph 1961 Nov p 118-128	mechanochemical engine, energy transformation, a	ctinomyosin, muscle
Maxwell's demon, perpetual motion, thermodynamics, second law of	contraction	1954 Mar p 72-76
thermodynamics 1967 Nov p 103-110 [317]	mechanoreceptors, sensory perception, Pacinian co	rpuscle, touch,
Maxwell's equations, microwaves, optical properties, traveling-wave tube,	olfactory receptors, taste receptors, pain recep	tors, biological
klystron, magnetron, waveguides, communication, radar		60 Aug p 98-108 [70]
1952 Aug p 43–51	median, statistics, mode, sampling, sequential samp	oling
ether dnft, Fitzgerald contraction, relativity theory, Lorentz		1952 Jan p 60-63
transformation, life and work of G F Fitzgerald 1953 Nov p 93-98	Medicaid, medical care financing, H M O, Kaiser	
electromagnetism, field theory, life and work of James Clerk Maxwell	medical technology, national health insurance	
1955 June p 58–71	medical consumers with the second	1973 Sept p 169-175
Maxwell's poetry, light verse by James Clerk Maxwell 1952 Mar p 62-63	medical care, community hospital, medical center,	general practitioner,
Maya cermonial center, New World archeology, stelae cult, British	medical specialist, laboratory services, Bingha of medical technology	
Honduras, Lubaantun, Pusilha sites 1972 May p 82–91	national health insurance, group practice	1948 Oct p 7-13
Maya civilization, New World archeology, decline and fall of Maya	placebos, medical research	1949 June p 11-15
civilization 1955 May p 82–88	medical specialization, health insurance, medical	1955 Aug p 68-71
Lake Amatıtlan, underwater archeology, 500 B C Guatemala	organization of medical technology in U S	1963 Aug. p 19–27
1959 Mar p 100-113	medical economics, public funds, municipal hosp	ntals voluntary
Cozumel sites 1975 Oct p 72–82	hospitals, proprietary hospitals, metropolitan	medical economics in
New World archeology 1977 Mar p 116–133	New York City	1965 Jan n 19-77
May a inscriptions, progress report on decipherment 1978 May p 92	public health, morbidity, health statistics, mortal	hty rates, health
maze running, planarian, learning, conditioned behavior,	insurance, U.S. National Health Survey	1966 June n 21-29
'protopsychology', evidence of learning in a primitive nervous system	national health insurance, medical technology, n	ultiphasic screening
1963 Feb p 54-62	Kauser health plan, H M O, screening out the	'worned well'
McCarthy, loyalty and security, U.S. Army, Fort Monmouth, Scientists'	fort and the second	1970 Apr p 15-23
Committee on Loyalty and Security, report on Signal Corps Engineering Laboratory 1954 June p 29-31	birth control, human population, India, infant m	ortality, family
Engineering Laboratory 1954 June p 29-31 meanders, Mississippi river, alluvial valley, deltas, floods	planning, experience in an Indian village	
1951 Apr p 18-23	health statistics, medical and control and	July p 106-114 [1184]
nverbed, sine-generated curve, hydraulies, least-work path for nver	health statistics, medical-cost control, national h 'uncontrollable' expenditures, U S Federal ex	ealth insurance,
1966 June p. 60–70 [869]	care	penditure on medical
measles vaccine, rubella, vaccine sougt 1963 May p 74	bacterial town, cholera, disease, sanitation, water	1971 Apr p 17–25
	, water and a summation, water	1971 Aug. p 15–21
NSF, rubella, vaccine sought, Haworth director 1963 May p 74	human nutrition intravenous feeding, synthetic	1371 Aug. p 13-21
measure theory, area-minimizing principle, mathematical model,		1972 May p 73-80
mathematical surfaces, soap bubbles, surface geometry	doctor-patient relations, medical jargon	1972 Aug n 66 74
1976 July p 82–93	infectious disease, national health insurance, chil	d health care, acute
measurement, Brownian motion, time, velocity, uncertainty principle, Planck's constant, limits of measurement 1950 July p 48-51 [255]	niness, cironic liness, delivery of medical care	1072 App - 12 17
light cattering, photometry, molecular size, aerosol, hydrosol, Tyndall	medicine, physical incapacitation, morbidity, mo	riplity rates bosoutal
spectra 1953 Feb p 69–76	eare, amountory care triage, health insurance	introduction to
speed of light, universal constant 1955 Aug p 62-67	single-topic issue on medical care	1973 Sept p 22-33
cessum clock, length standard, mass standard, time standard.	adolescence, child development, growth hormone menarche, heredity vs environment	bone age',
temperature standard, interferometry 1968 June p. 50–62	aging, gerontology, longevity, sensity	1973 Sept p 34-43
metric system, imperial system, metrication, UK, metrication program	chronic illness morbidity mortality rates and ex	1973 Sept p 44–52
1970 July p. 17-25 [334]	expectancy, infectious disease, degenerative dis	austics life
physical constants, velocity of light, electron mass, particle charge,		
least-squares method standards of measurement, Planck's constant, Rydberg constant 1970 Oct p 62-78 [337]	surgery, surgical specialities mortality rates malp	1973 Sept p 76-84
krypton standard 1970 Oct p 62–78 [337] krypton standard 1958 Mar p 56		
metric system US changeover studied 1970 Oct p 52	chemotherapy, drug effects, liver function, pharm	iacology, vaccine
1770 Oct p 52	hormone, antibiotics, herbial medicine	1973 Sept p 102-112
		p. p 102-112

1973 Sept p 128-137

hospital care, in-patient care, out-patient care, m	edical technology	1	
medical instory, triage	1073 Come - 120 12	pharmaceutical industry, prostheses, FDA	medical care, drug
Flexner report, medical education, medical speci	Oline name.	prescription, drug research, medical labora	atory services
physicians, foreign medical graduates, medical	research	medical education. Flavour sound t. 1	1973 Sept p 161-160
	1073 Sant m 120 140	medical education, Flexner report, medical spec physicians, foreign medical graduates, med	naities, primary
nearth insurance, medical economics, hospital car	re, third-party	Programmat restriction intention graduates, met	
	1973 Sept p 151-159	medical manpower, foreign medical graduate	1973 Sept p 138-148 s 1975 Feb p 14-21
pharmaceutical industry, prostheses, F D A, mea prescription, drug research, medical laboratory	dical economics, drug	loreign physicians in US	1960 Oct p 90
Production, drug research, medical laboratory	Services	medical engineering, hyperbaric surgery	1961 July p 74
People's Republic of China, preventive medicine,	1973 Sept p 161-166	medical ethics, doctor-patient relations, medical	care, informed consent
paretoot noctors	3074 Apr - 30 27	placebos	1974 Nov p 17-23
doctor-patient relations, informed consent, medic	al ethics, placebos	human subjects, informed consent, medical re	search
	1974 Nov n 17 22	hlindness neonatal disorder account	1976 Feb p 25-31
medical technology, hospital care, ambulatory car	c. morhidity	, and a second production in the second produc	ts, medical researches 77 June p 100–107 [1361]
international comparison of medical care system	ms	human experimentation	1966 Aug p 44
computer alasmit	1975 Aug p 17-25	prolongation of life	1968 Mar p 49
computer algorithms, computer-assisted imaging,	ımage	medical history, Vesalius, human anatomy, Rena	ussance, his de Humani
reconstruction, computer graphics, tomography		Corpons Fabrica, work of art	1948 May p 24-31
malpractice insurance, medical malpractice, docto	1975 Oct p 56-68	aviation medicine, Bert, Paul Bert, 'father' of a	viation medicine
reason mapraence, docte	1976 Aug p 18-23	E	1952 Jan p 66-72
interferon induction, virus disease	1977 Apr p 42-50	human anatomy, Galen, Galen, work and influ	ence
AMA public relations campaign	1949 Jan p 28	supplied wounds suggest assessment at \$150	1957 Mar p 105-114
foreign medical graduates	1949 Mar p 26	gunshot wounds, surgery, assasination of US	1963 Mar p 118-120
shortage of pediatricians	1949 May p 28	drug addiction, morphine, hypodermic medical	
bedpan vs commode	1951 Feb p 36	morphine addiction	1971 Jan p 96-102
national Commission on Health Needs	1952 Mar p 38	hospital care, medical care, in-patient care, out-	patient care, medical
commission commends compulsory insurance	1953 Feb p 40	technology, triage	1973 Sept p 128-137
expenditures rise more M D s needed	1954 Mar p 46	cowpox, smallpox immunization variolation, va	accination 'taccination'
Medicare and Medicard	1958 Sept p 86	before Jenner	1976 Jan p 112-117
in US, UK and Yugoslavia	1966 Sept p 100	smallpox eradication, vaccination, W H O cam	paign 1976 Oct p 25-33
too much surgery?	1967 Nov p 59 1970 Mar p 60	antigen variation, disease, influenza virus, encep	
spending in New York City	1974 Feb p 45	virus disease, animal vectors Hong Kong flu	
foreign medical graduates	1974 Oct p 64	1977	7 Dec p 88-106 [1375]
Health Maintenance Organizations	1974 Nov p 50	amputation of Neanderthal forearm	1958 Aug p 52
malpractice suits	1975 Mar p 48	alcoholism and Samuel Johnson	1967 Aug p 44
blood oxygen concentration measured through skir		medical jargon, doctor-patient relations, medical ca	1972 Aug p 66-74
spending in New York City US statistics on cost/benefit	1977 Apr p 52		1912 Aug p 00 1
medical care financing, H M O, Kaiser health plan, M	1978 Mar p 69	medical laboratory services, pharmaceutical industr medical care, medical economics, drug prescrij	y, production,
medical technology, national health insurance	reareast, wiedicare,		19/3 Sept p 101-100
	73 Sept p 169-175	medical malpractice, malpractice insurance, medical	care, doctor-patient
medical center, medical care, community hospital, gen		relations	14/6 ABE D 10-4-2
medical specialist, laboratory services, Bingham I		medical manpower, distribution by speciality	1951 Sept p 79-84 1975 Feb p 14-21
of medical technology	1948 Oct p 7-13	medical education foreign medical graduates	11975 red p 24
medical-cost control, medical care, health statistics, na insurance, 'uncontrollable' expenditures, U S Fe		foreign graduates 46 percent of new physicians in	19/4 200 0
	1971 Apr p 17–25	medical research, placebos, medical care	1955 Aug p 68-71
medical diagnosis, cancer, tissue grafts, tissue culture,		anesthesia, pain, cocaine, procaine, surgery, neuro	pharmacology,
in heterologous graft	1948 Dec p 40-43	pharmacology, psychiatry, research in pain supp	ression
electroencephalography, brain waves, alpha rhythms	s, Fourier analysis,	The state of the s	1957 Jan p 70-82
	1954 June p 54-63	Flexner report, medical education, medical special physicians, foreign medical graduates medical c	nes pinom)
cardiology, Newton's third law, ballistocardiography	/ 1958 Feb p 89-95	<u> </u>	973 Sept p 138-140
cancer, enzyme blood levels, myocardial infarction, l		human subjects, informed consent, medical ethics	1976 Feb p 23-31
diagnosis, leukemia, diagnosis by presence of abno	ormal enzymes	international institute at N I H	1939 ache b
15	161 Aug p 99~101	medical researches, blindness, neonatal disorder, med	lical ethics
thermography, tumor, arthritis, skin temperature, cir	culatory disorders	premature infants retrolental fibroplasia, 'blind'	ne p 100-107 [1361]
	967 Feb p 94–102	medical specialist, medical care, community hospital	medical center
ultrasonics, optics, echo-sounding, computer-assisted imaging internal organs by ultrasound 1978 Ma	v n. 98112 [1389]	general practitioner, laboratory services, Binghan	n nian organization
sonar imaging		of medical technology	1948 Oct p /~12
computenzed diagnosis by self-questionnaire		medical specialization, health insurance, medical econo	omics medical care
bust of Menander (or Virgil') evidences cerebral pals	y	need for organization of medical technology in U	1963 Aug p 19-27
	1939 Oct p 00	medical specialties. Flexner report medical education,	primar)
acoustic holography, laser, sound waves, interference,	, notography. 1969 Oct p 36	physicians foreign medical graduates medical res	earch medical call
acoustic imaging nondestructive testing medical economics, medical specialization, health insura	nce medical care	14)	3 Sept p 130-140
need for organization of medical technology in V		medical statistics, US population health survey medical technology, national health insurance medical	1957 Mar p 70
J.	NUS D 17-21	screening, Kaiser health plan, H M U, screening of	at the worned
medical care, j	STATE TO SOME THE STATE OF THE		970 Apr p 15-23
proprietary	New York	well' hospital care, medical care, in patient care, out-patient	210 Min 11 12 22

1905 Jan p 19-27

City health insurance, hospital care, medical care, third-party payment 1973 Sept. p. 151–159

history, triage

medical care financing, H M O, Kaiser health plan, Medicaid,	membrane energetics, ATP, cell membrane, colicine, active transport, E.
Medicare, national health insurance 1973 Sept p 169–175	colı 1975 Dec p 30–37 [1332]
medical care, hospital care, ambulatory care, morbidity, international	membrane fusion, cell membrane, cell secretion, endoplasmic reticulum,
comparison of medical care systems 1975 Aug. p 17-25	exocytosis, fluid-mosaic model of membrane
Medicare, medical care financing, H M O, Kaiser health plan, Medicaid,	1975 Oct p 28-37 [1328] membrane lipids, cell membrane, membrane permeability, phospholipids,
medical technology, national health insurance 1973 Sept p 169-175	membrane proteins, active transport 1972 Feb p 30–38 [1241]
nedicine, anthropology, magic, alkaloids, psychoactive drugs, hypnosis	membrane permeability, cell membrane, intercellular communication,
psychiatry, lessons from primitive medicine 1948 Sept p 24-27	salivary gland, epithelium, molecular signals, junctions in cell
military medicine, science history, Pare, surgery, life and work of	membrane 1970 May p 78-86 [1178]
Ambroise Pare 1956 Jan p 90–96	'anomalous' water, 'biological' water, blood, hemoglobin, water,
medical care, physical incapacitation, morbidity, mortality rates,	osmosis, erythrocyte, van 't Hoff law 1971 Feb p 88-96 [1213]
hospital care, ambulatory care, triage, health insurance, introduction	cell membrane, membrane lipids, phospholipids, membrane proteins,
to single-topic issue on medical care 1973 Sept p 22-33	active transport 1972 Feb p 30–38 [1241]
arteries, atherosclerosis, coronary disease, thrombus, monoclonal	membrane potential, kidney tubule, sodium pump, active transport, cell membrane, biological pumps 1962 Aug. p 100–108
hypothesis, plaque formation 1977 Feb p 74-85 [1351]	membrane, biological pumps 1962 Aug. p 100–108 bioluminescence, plant cell, calcium pump, ion potential, electricity in
medieval archeology, Scotland, St. Ninian's Isle, silver artifacts, the treasure of St. Ninian's 1960 Nov. p. 154-166	plants 1962 Oct p 107–117 [136]
medieval life, English medieval village, Wharram Percy site	ners e conduction, synapse, reflex arc, motor neuron, inhibitory
1976 Oct. p 116–128	impulse, transmitter molecules, nerve excitation, activity at the
medieval technology, science history, technological innovation, windmills,	neural synapse 1965 Jan p 56-66 [1001]
pumps, blast furnace, bellows, medieval uses of the air	axon, neurology, nerve conduction, Schwann cell, axoplasm, perfusion
1970 Aug p 92–100 [336]	technique, cell perfusion, structure of axonal tube, physiology of
Mediterranean Sea, Black Sea, Tethys Sea, sea level, geological history of	neural transmission, concentration gradients
Black Sea 1978 May p 52–63 [932]	1966 Mar p 74-82 [1038] membrane proteins, cell membrane, membrane lipids, membrane
Mediterranean wines, viticulture, wine varieties, temperate-climate wines 1974 June p 106-115 [1298]	permeability, phospholipids, active transport
medulia, central nervous system, reticular formation, brain, perception,	1972 Feb p 30–38 [1241]
motor reflex, neurophysiology, attention and orienting mechanism in	cell membrane, lipid molecules, membrane structure, active transport
brain 1957 May p 54-60 [66]	1974 Mar p 26–33 [1292]
megalopolis, Great Lakes region 1966 Oct p 46	membrane structure, cell membrane, lipid molecules, membrane proteins,
megnetohydrodynamics, stellar magnetic fields, cosmic radiation, radio	active transport 1974 Mar p 26–33 [1292] membrane technology, artificial gill 1964 Nov p 59
emissions, electrical induction, electricity in space 1952 May p 26-29	memory, brain, learning, cerebral cortex, fundamental research, What is
meiosis, mutotic apparatus, cytology, chromosome, mutosis, mechanism of	memory? 1953 Sept p 118-126 [11]
cell division 1961 Sept p 100–120 [93]	information processing, learning theory, reason, rational association as
Down's syndrome, chromosomal anomalies, Klinefelter's syndrome.	aid to memory 1956 Aug p 42–46 [419]
trisomy 21, genetic defect, mitosis, gene translocation,	evolution, intelligence, learning, language, imagery, experimental psychology, learning in man and animals 1957 June p 140–150
nondisjunction, afflictions associated with abnormal chromosome complement 1961 Nov p 66-76 [150]	psychology, learning in man and animals 1957 June p 140-150 education, learning, experimental psychology, 'drill' in learning
tissue culture, mitosis, plant cell differentiation, clone, generation of	1958 Aug p 68-72 [422]
whole organism from tissue cell (carrot) 1963 Oct p 104-113	glial cells, learning theory, neurones, RNA, brain, molecular theory of
embryonic development, oocytogenesis, mitosis, mammalian eggs.	memory 1961 Dec p 62–70 [134]
chromosomal anomalies, ovum, in vitro fertilization 1966 Aug p 72–81 [1047]	learning, forgetting, proactive and retroactive interference
mitosis, ovum, fertilization, embry onic development, blastocyst, human	1964 Mar p 91-99 [482] visual search, visual scanning, information processing, reading, pattern
embryos in the laboratory 1970 Dec p 44-54 [1206]	recognition 1964 June p 94–102 [486]
Meissner effect, superconductors, quantum mechanics, magnetic field,	digit recall, short-term memory, long-term memory, tachistoscope
magnetic impermeability, quantized vortexes, quantum effects in	1966 July p 90–95 [499]
superconductors 1965 Oct. p 57-67 Mekong river, economic development, irrigation monsoons, floods.	brain metabolism, protein synthesis, goldfish, learning, conditioned behavior 1967 June p 115-122 [1077]
hydro-engineering, rice, Mekong river plan, United Nations	holography, learning, brain function, interference patterns, monkey
1963 Apr p 49-59	brain, holographic model, neurophysiology of remembering
melanin, hormone, skin color, pigmentation, melanocytes, melatonin	1969 Jan n 73-86 15201
1961 July p 98–108	amorphous semiconductors, switching, glass, threshold switch, memory
melanism, evolution, speciation, guillemot, skua, ornithology, avian evolution 1957 May p 124-134	switch 1969 Nov p 30-41 image processing, perception, linguistic material, visual memory,
camouflage, evolution, moths, speciation, air pollution, population	remembering what is seen 1970 May p 104-112 [528]
genetics, mutation genetic variation, evolution observed	aplysia, neurones, behavior, learning, synapse, heterosynaptic
1959 Mar p 48-53 [842]	facilitation, memory and learning at nerve-cell level
air pollution, evolution, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90-99 [1314]	information retrieval learning [1970 July p 57-70 [1182]
melanocytes, hormone, skin color, pigmentation, melanin, melatonin	information retrieval, learning, long-term memory, short-term memory
1961 July p. 98–108	1971 Aug. p 82-90 [538] brain development, environmental stimuli, learning, rats, sensory
cancer, ultraviolet radiation, suntanning, epidermis, skin, vitamin D	deprivation 1972 Feb n 22-20 (541)
1968 July p 38-46 melatonin, hormone, skin color, pigmentation, melanin, melanocytes	crime, eye-witness testimony, perception jury trial
201-29 - 101 1301	calculating machine computer peel of all the p 23–31 [562]
adrenal gland, pineal organ, biological clock estrogens, progesterone	calculating machine, computer, pocket calculator, integrated circuits
veroloning princial regulation of sex alander 1045 tt. = 50 40 110 15)	1976 Mar p 88-98 brain organization, hippocampal system, rats, spatial memory
membrane, cytology, energy transformation, ATP, mitochondrion citricard cycle, glycolysis oxidative phosphorylation, energy	1077 1 02 02
11.4 10.0 1 11.4 10.0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	site of short term — 1961 Dec p 76
bacterial cell, cell wall, bacterial metabolism, pensalti-	hischemical basis? 1965 Feb p 52
DOINGLEITHIGE ENCODEDINGS	memory circuits, integrated circuits computer, 'Simple Simon' a minimal
see also cell membrane artificial membranes and the like	computer 1950 Not p 40-43

menarche, adolescence, child development, growth, earlier maturation of	Merton rule, falling-body velocity, free fall, Galileo, science history
children in industrial countries 1968 Jan p 21–27 abortion, population, marriage rate, death rate, birth rate, vital	1973 May p 84-92 mesentery, capillary bed, blood circulation, arteriole, venule,
statistics, infant mortality, 1538-1812, parish registers, York,	cardiovascular system 1959 Jan p 54-60
England 1970 Jan p 105–112	mesoderm, cell differentiation, embryonic development, blastula,
adolescence, child development, medical care, growth hormone, 'bone	gastrula, fertilization, ectoderm, endoderm, embryological
age', heredity vs environment 1973 Sept p 34-43	'organizer', science history, review of classical embryology
adolescent development, bespeaks health rather than habits	1957 Nov p 79-88 [103]
1972 May p 50	embryonic development, heart embryology, first heartbeat 1959 Mar p 87-96 [56
hastened by social stimulation? 1972 June p 53 Mendelees, deflater of psychic research 1978 June p 88	cell differentiation, embryonic development, pancreas, endoderm
mendelevium, californium, table of elements, einsteinium, fermium,	tissue culture 1969 Mar p 36-44 [1136
'synthetic' elements transuranium elements, radioactive decay,	Mesalithic era, cultural anthropology, Ishango man, harpoon, African
periodic table at 101 1956 Dec p 66-80 [243]	culture 10 000 B C 1962 June p 195-11
Mendelian inheritance, neurospora, mutation, natural selection, gene	mesons, elementary particles, electron, proton, particle counters, neutron
expression, genetic disease, tryptophan-macin relation, one gene-one	positron, photon, neutrino, particle accelerator, nuclear binding force 'Meson Song' 1948 June p 26-3
enzyme hypothesis, selection for defect 1948 Sept p 30-39 [1]	high energy physics v-particles fermion boson the multiplicity of
Mendel's laws, chromosome mapping, mutation, science history, the gene on the eve of the resolution of the genetic code	particles 1932 Jan y 22-2
1956 Oct p 78–90 [17]	electromagnetic force, nuclear forces, proton, neutron particle
Mendel's papers, widely circulated 1968 July p 55	scattering, high-energy physics, fundamental research what holds
Mendocino escarpment, ocean floor, Pacific Ocean, fracture zones,	the nucleus together?
seamounts, Earth mantle convection 1955 July p 36-41	strong interactions, nuclear binding force, particle physics, fleeting associations of mesons and atomic nuclei 1956 Oct p 93–102 [207
menstrual cycle, progesterone, pregnancy, uterine muscle, hormone,	
hormone inhibition of uterine muscle contraction 1958 Apr p 40-46 [163]	quantum of the strong force 1997 sam P
mental health, Hutterites, psychosis, standard expectancy method,	tech assess whereas harmons 'strong' force 'eightfold way,
enidemiology 1953 Dec p 31–37 (440)	conservation laws, Regge trajectory, resonance particles, 74-93 [296
emotional illness, schizophrenia, epidemiology, family, psychosis,	hypothesis particle accelerator, pions, proton, quark, high-energy physics,
income status 1954 Mar p 38-42 [441]	
alkaloids, hallucinogens, drug addiction, consciousness alteration,	(301 Dec F
LSD, psychosis, psilocybin, mescaline, effects of LSD 1964 Apr p 29-37 [483]	baryons, high-energy physics, hadrons, leptons, quantum numbers
community mental-health centers, emotional illness, psychiatric	quark confinement, bag model, littlated stately 11976 Nov p 48-6
hospital nonulation, psychoactive drugs, psychotherapy, psychiatry,	1948 Dec p 2
psychoanalysis 1973 Sept p 110-127	
Federal program 1948 Sept p 28 1954 Mar p 48	nuclear structure
diagnosis by art	1970 Aug F
Ford funds research mental illness, see emotional illness	mesopause, upper atmosphere, cloud, meteoritic dust, condensation nuclei, rocket-borne collectors sample noctilucent clouds
mental retardation, socioeconomic factors 1938 Wai p 00	
phenylketonuria test	Mesopotamia, transportation, wheeled vehicles, oxen, carts, wagons,
	Transcaucasus, origin of wheeled transport 51068 July p 82-9
environmental deprivation from age 1 to 5	to a sering of syriting in clay
The same satisfies a selection of the selection of the selection agreement the selection of	hieroglyphs writing, pictograph, ideographs, origin of writing, pictograph, ideographs, origin of writing 50-59 [700] tokens
	Macanatagian culture, ancient trade, archeology, writing Elamite
the property of the order of the street of t	culture, Persia, Sumer, Iran, Tepe Yahya 1971 June p 102-111 [66]
artificial satellite, orbital motion, space exploration, 1961 Jan p 49-57	
abiation, re-chiry contract, motion, radar astronomy, delay-Doppler	
Wante Microwaves	mesquite, desert ecology, Joshua trees, creosote bushes 1955 Apr p 68-75 [114
planete solar system, craters, Mariner to mission	media, television
Venus, planetary temperature and motion 1965 June p 58	message systems, communication mass-communication media, television violence, cultural patterns, sociology, mass communications as social violence, cultural patterns, sociology, mass communication as social violence, cultural vio
rotation detected by laudi	violence, cultural patterns, bottomes, 1072 Sept. p. 152-160 1077
report from findings by Manner 10 mission 1974 Mar p 44 radar reveals cratered topography 1974 May p 59	environment and a state of the donamine, endocrine
Mariner 10 mission report 1974 Sent n 68	system, nervous system, neurottational and accompling
Mariner 10 report	Parkinson's disease, 'second messengers' brain endocrinology 1977 Aug p 108-119 [1368
mercury 198, standard of length, interferometry, 1948 Aug p 48-53	The state of the s
mercury cycle, mercury poisoning, mercury pollution, Minamata disease [1971] May p 15-21 [1221]	messenger ribonucleic acid, see interval metabolic disease, heredity, porphyria genetic disease George III 1969 July p 38-46 [1149]
mercury cycles are 1 [1971 May p 13-21 [1221]	and read way marine
mercury delay line, computer memory, ferroelectric crystal memory, mercury delay line, computer memory, ferroelectric crystal memory, 1955 June p 92-100	metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax
ferrite cores, magnetic tape, magnetic tape, magnetic maser.	wax, food chain metabolic hormones, p
mercury mirror, atomic clock, ammonia maser, cestuit clock, and the province of the province o	growth hormone ' 1951 (ACL b to 27
mercury poisoning, mercury cycle, march 1071 May p 15-21 [1221]	constructed communication
1949 Dec D 20	metabolic information, cell communication general code of the server impulse, hormonal action 1972 Sept. p. 42–51 [1257] nerve impulse, hormonal action podit temperature animal
from fingerprint dust mercury polisoning, Minamata disease mercury pollution, mercury cycle, mercury polsoning, May pt 15-21 [1221]	metabolic rate, hibernation thermoregulation body 1950 Dec. p. 18-21
	behavior a tendence acclimatization deer
mercury uptake in foodchain	brown fat, altitude adaptation. Queenua inutation of the altitude mice, hemoglobin exercise, human physiology at high altitude 1970 Feb. p. 52. 62 [1168]
mercury uptake in foodchain mermaid's wineglass, Acetabularia, giant cells, cell nucleus, cytoplasm mermaid's wineglass, Acetabularia, giant cells, cell nucleus, cytoplasm aleae, giant cells in study of nucleus-cytoplasm interaction	1970 ren p 32 02 (1100)
alease giant cells in study of nucleus-cytopiasm increase 118-124 [1057]	

etabolism, alcoholism, drunkeness, physiological individuality	metal ions, chelation, sequestering, ring compounds, porphyrin ring, organometallic compounds, metal-poisoning antidote, chemical
conditions effect of alcohol 1948 Dec p 50-53 biochemistry, enzymes, virus, citric-acid cycle, co-enzymes, sulfa drugs,	separation 1953 June p 68–76
antibiotics, science, biochemistry 1900-1950 1950 Sept p 62-68	metal ores, Earth crust, mining, natural resources, natural concentration
hummingbird, body temperature, thermoregulation, hibernation,	of metals 1960 June p 146-154
surface-to-volume ratio 1953 Jan p 69–72	metal-oxide semiconductors, computer memory, integrated circuits,
teeth, enamel, dentin, fluoridation 1953 June p 38-42	microelectronics, large-scale integrated circuits, logic circuits,
alcohol tolerance, drug abuse, liver function, acetaldehyde	transistor 1970 Feb p 22–31
1953 Dec p 86–90	integrated circuits, microelectronics, silicon 'chips', transistor
shrews, body temperature, thermoregulation, surface-to-volume ratio	1973 Aug p 48–57
1954 Aug. p 66–70	integrated circuits, microcomputers, microelectronics, microprocessors,
oxygen starvation, erythrocyte, acclimatization, attitude adaptation	minicomputers, silicon 'chips' 1975 May p 32–40
1955 Dec p 58–68	integrated circuits, logic gates, microelectronics, semiconductor technology, transistor 1977 Sept p 70-81 [375]
cell organelle, mitochondria, enzymes, cell metabolism, cell membrane, 'powerhouse of the cell' 1957 July p 131–140 [36]	metal poisoning, chelation, hemochromatosis, lead poisoning,
'powerhouse of the cell' 1957 July p 131–140 [36] ruminants, symbiosis, cellulose digestion, anaerobic metabolism,	pharmacology, drug action, Wilson's disease, heavy metal poisoning
fermentation, how cows digest grass 1958 Feb p 34–38	bone cancer, salicylates, aspirin, cancer therapy, chemotherapy,
hibernation, hypothermia, surgery, shock, body temperature, artificial	medical exploitation of chelates 1966 May p 40-50
lowering of body temperature for surgery and shock	metal-poisoning antidote, chelation, metal ions, sequestering, ring
1958 Mar p 104-114	compounds, porphyrin ring, organometallic compounds, chemical
arthritis, gout, colchicine, chemistry of gout 1958 June p 73-81	separation 1953 June p 68–76
adipose tissue, hibernation, brown fat, thermoregulation, homeostasis,	metal-powder alloying, alloying, mechanical alloying, metallurgy
cold adaptation, neonatal physiology, heat production in newborn	1976 May p 40–48
animals, including man 1965 Aug p 62–65 [1018]	metal prospecting, moss leads to copper 1955 Oct p 52 metal refining, by chemistry 1952 June p 32
salmon, fish migration, swimming, laboratory observation of energy production by salmon 1965 Aug p 80-85 [1019]	metal stamping, circle grid analysis, crystal structure, sheet-metal
circulatory system, thermoregulation, cold adaptation, fur, insulation	production, strain hardening, metal structure 1976 Nov p 100–108
1966 Jan p 94–101 [1032]	metal-surface defects, exoelectrons, Geiger counter, metal fatigue, wear
bird flight, energy output, wind tunnel experiments, gull, budgerigar	1977 Jan p 74-82 [350]
1969 May p 70–78 [1141]	metal 'whiskers', surface defects, crystal growth, lattice defects, growth of
calcitonin, thyroid, calcium metabolism, bone, human physiology,	metal whiskers 1960 July p 64–72
hormone, recognition and characterization of calcitonin	dislocation-free metals 1958 Oct p 56
1970 Oct p 42–50	metal with memory, Nitinol 1971 Mar p 47 metallic bonds, solid state physics, crystal structure, X-ray diffraction,
diet, fasting, human nutrition, starvation, kwashiorkor, marasmus, physiology of starvation 1971 Oct p 14–21 [1232]	ionic bonds, covalent bonds, molecular bonds, energy levels, the
physiology of starvation 1971 Oct p 14-21 [1232] animal behavior, cryptobiotic animals, anaerobic metabolism,	nature of solids 1952 Dec p 39–49 [249]
suspended animation, Nematoda, Rotifera, Tardigrada	metalliding, corrosion tunnel, stress-corrosion failure, crystal structure,
1971 Dec p 30-36	dislocations 1966 Feb p 72-81
'cold-blooded' animals, ectothermy, heterothermy, insect flight, sphinx	materials technology, superplasticity, microduplex structure,
moths, temperature regulation, Mandura sexta warm-up mechanisms	thermomechanical processing, grain structure metals that can be
1972 June p 70–77 [1252]	formed like plastics 1969 Mar p 28–35
birds, dinosaurs, ectothermy, endothermy, birds descended from dinosaurs 1975 Apr p 58-78 [916]	alloys, materials technology, diffusion, surface alloy, molten fluoride, electrolysis 1969 Aug p. 38-46
dinosaurs 1975 Apr p 58–78 [916] sports, footracing, human physiology, athletics, psychology, running	electrolysis 1969 Aug p 38-46 metallo-enzymes, elements, living matter, essential elements, fluorine,
records, Aesop principle 1976 June p 109–119	silicon, tin, vanadium, list of elements essential to life lengthened to
amino-acid deficiencies, dietary requirements, human nutrition, food	24 1972 July p 52–60
and agriculture 1976 Sept p 50-64	metallo-organic process, ammonia manufacture, biological nitrogen
Krebs cycle 1957 July p 66	fixation, Haber process, nitrogen fixation 1974 Oct p 64-70
alcohol produced internally 1973 Sept p 66	metalloid element, boron, crystal structure, borane fuels, properties and
see also cell metabolism, aerobic metabolism and the like	applications of boron compounds 1964 Jan p 88-97 metalloiding, surface-alloying by diffusion 1967 Sept. p 106
thyroid in governing metabolism 1960 Mar p 119–129	metalloiding, surface-alloying by diffusion 1967 Sept p 106 metalloids, prediction of alloy properties 1964 Aug p 40
metabolism of drugs, alcohol metabolism, detoxification, drug	metallurgical engineering, steel production, continuous casting, economic
inactivation, enzyme, liver function, cirrhosis	advantages 1963 Dec p 74-88
1975 June p 22-31 [1322]	splat cooling 1960 Aug p 72
metabolism of mammals, algae deuterium, reaction kinetics, penicilin	electroshaping metals 1961 Jap n 84
mold, heavy water biology 1960 July p 106-116	metallurgy, titanium, ilmenite, properties and applications of titanium
metabolite antagonists, imitative drugs, sulfa drugs, folic acid, para- aminobenzoic acid 1951 Apr p 60-63	air pollution, catalysis combustibility, fly ash, dust storms, fine
metal artifacts, Turkey, metallurgy, copper, Neolithic archeology, village	particles 1950 Dec p 50-53
farming communities man's first use of metals 7,500 B C	crystal structure, zone melting, vacuum furnace, pure metals
1970 Mar p 50-56	1954 July p 36–40
metal casting, alloys, crystal structure, dendrites, metallurgy,	Etruscans bronze 1955 Nov. p. 00. 08
solidification of metal 1974 Dec p 88-95 metal consumption, economic development, technology transfer,	crystal structure, diffusion, wandering of atoms in crystal lattice
industrialization mineral resources, natural resources and	crystal structure stress feature was 1957 May p 103-110
technological substitution 1963 Sept. p. 128–136	crystal structure, stress fracture, materials technology, cracks and fracture
metal cutting, chemical milling, etching, operation of chemical mill	New World archeology, New World archeology, Old Copper culture
1957 Inn n 104_112	reid, copper, gold lost-wax casting, metalwork, pre Columbian
metal fatigue, Beilby layer, ferrograph analysis friction, lubrication, machine wear, particles of wear, wear 1974 May p 88-97	New World, 4 000 B C. 1066 A == - 72 Gr
exoelectrons Geiger counter, metal surface defects wear	and structure, controlled eutectics, whiskers,
1077 1 74 93 (350)	Controlled-cooling magnets
metal forming, electrochemical machining, electrolysis	metal artifacts, Turkey, copper, Neolithic archeology, village farming communities, man's first use of metals 7,500 B C
1074 1 20 27	1070.14
crystal structure dislocations forging, strain hardening, creep in metals	crystal energetics crystal structure, conduction electrons quantum
1975 Apr p 116–125	mechanics quasi particle concept, Fermi surface metal properties
	1973 Jan p 88_98
	• • • •

alloys, crystal structure, dendrites, metal casting, solidification of metal	rolar custom and disciplination
alloying, mechanical alloying, metal-powder alloying	1060 Nov. p. 171 192 1931
1076 \ 100 -	coesite, astroblemes, shatter cones, cratering, fossil Earth-catastrophes
1977 Oct. p. 122 123 120 120 120 120 120 120 120 120 120 120	shock waves, exploding wire, streak photography, generation of shock
1956 Jan. p. 50	waves by exploding wire 1962 May p. 102-112 extraterrestrial life, chondrites, pangenesis, organic molecules, organic
soldering technic 1956 Apr. p. 64 metalogic, grammar, truth, logic, philosophy, sentence, mathematical	molecules in carbonaceous chondrites 1963 Mar. n. 43-49
proof, antimony of the ligr, proof and trith 1960 June 7 62 77	Earth, tektites, moon, moon as source of tektites 1964 Feb. p. 50-57
Godel's proof, mathematical logic, undecidable questions	asteroids, Icarus, orbital motion 1965 Apr. p. 106-115 lunar luminescence, moon, solar radiation, Kepler crater, solar flares,
1971 Mar. p. 50-60 metals, crystal structure, field-emission microscope, pictures of atoms	impact of solar protons? 1965 May p. 28-37
1957 June n. 112, 122	diamond, Canyon Diablo meteorite, iron-nickel phases, shock hypothesis, asteroids, origin of meteorites 1965 Oct. p. 26-36
crystal structure, materials technology, aligned crystals, alignment of crystals for control of mechanical and magnetic properties	comet, geomagnetism, magnetic reversals, tektites, meteoritic impacts
1959 Apr n 125_141	1967 July p 32-38 Apollo project, moon, lunar soil, regolith, structure and history of
ionizing radiation, crystal structure, solid state physics, displacement of	moon 1970 Aug. p. 14-23
crystal structure by radiation 1959 Sept. p. 200-213 crystal structure, Fermi surface, gross properties explained as quantum	albedo, asteroids, planetisimal collisions, solar system formation,
effects 1963 July n. 110–120	primordial dust cloud 1975 Jan. p. 24-33 carbonaceous chondrites, chondrites, solar system, primordial dust
crystal structure, whiskers, fiber-reinforced, dislocations, matrix,	cloud 1975 Feb. p. 30-38
composite materials, two-phase materials 1965 Feb. p. 28-37 glass, materials technology, ceramics, polymers, chemical band,	potassium-argon dating 1960 Feb. p 72
composite materials, atom, elements, introduction to single-topic	Tungus forest 1961 Jan. p. 80 Earth satellite(?) 1965 Nov. p. 50
issue on materials 1967 Sept. p. 68-79	fall on English town 1966 Sept. p. 109
crystal structure, solid-state electronics, X-ray crystallography, semiconductor, nonmetals, materials technology, amorphous solid,	Allende meteorite, meteorite analysis 1971 Aug. p. 46
electrical conductivity 1967 Sept. p. 80–89	grazing, pyrotechnic encounter 1974 Aug. p. 50 crater in France 1977 Nov. p. 75
alloys, materials technology, crystal structure, grain boundaries, lattice	meteoritic amino acids, carbonaceous chondrites, chemical evolution,
defects, dislocations, electron 'gas', nature of metals	meteoritic hydrocarbons, Oparin-Haldane hypothesis 1972 June p. 38-46 [902]
1967 Sept. p. 90-100 input-output analysis, interchangeability of materials, cost assessment,	meteoritic dust, meteorites, solar system evolution, ocean sediments,
price trends, materials technology, plastics, competition among	'cosmic spherules' in ocean sediments 1960 Feb. p. 123-132
materials 1967 Sept. p. 254-266 crystal structure, X-ray diffraction, liquid state, physics of metals in the	upper atmosphere, cloud, mesopause, condensation nuclei, rocket- borne collectors sample noctifucent clouds 1963 June p. 50-59
liquid state 1969 July p. 72–82	borne collectors sample noctifucent clouds 1963 June p. 30-37 meteoritic hydrocarbons, carbonaceous chondrites, chemical evolution,
plate tectonics, sea-floor spreading, mid-ocean ridge, hydrothermal	meteoritic amino acids. Onarin-Haldane hynothesis
extraction, manganese nodules, origin of metal deposits on ocean floor 1978 Feb. p. 54-61 [929]	1972 June p. 38-46 [902] meteoritic impact, fossil crater, Chubb crater, cratering, astroblemes
metamorphosis, autolysis, lysosomes, enzymes, phagocytosis, pinocytosis,	1951 May p. 84-89
cellular digestive organ, 'suicide bag' 1963 May p. 64-72 [156]	tektites, strewn fields, origin of glassy stone 1961 Nov. p. 58-65 [802] meteorological research, U.S. National Institute of Atmospheric Research
amphibian, frog, thyroxin, pituitary gland, hypothalamus, neurosecretory system, hormone, chemistry of amphibian	1938 Apr. p. 2*
metamorphosis 1966 May p. 76-88 [1042]	meteorology, upper atmosphere, stratosphere, ionosphere, radio communication, aurora, noctilucent clouds 1949 Jan. p. 30-39
see also: insect metamorphosis metazoa, Volvox, cell aggregation, between single-celled and multi-celled	andiagonda main gauga anomamatar haramatar hygrameter
organisms 1950 May p. 52–55	in the second section of materials and second section 1961 (Jec. B. 04-70)
meteor, photographed from above 1976 Apr. p. 61	hurricanes, typhoons, radar 1954 June p. 32-37 wind, atmospheric circulation, cyclone, anticyclones, source of
meteorids, asteroids, moons, solar system, planetisimals 1975 Sept. p. 142-159	prevailing winds 1956 Dec. p. 40-40 (641)
meteorite age, fission-track dating, geochronology, glass age, mineral age,	climate, weather, solar wind, ionosphere, coronametry, Earth's weather and solar wind 1957 Apr. p. 138-148 [849]
pottery age, radioactive decay, uranium fission 1976 Dec. p. 114-122	and descript public open from solt particles cloud physics. I all the
meteorite hombardment, cratering, planetary ages, solar system evolution,	seasalt and rain
cratering of four inner planets as key to solar-system history 1977 Jan. p. 84-99 [351]	tornadoes, radar tracking, thermal updraft, weather forecasting 1958 May p. 31-37
meteorite composition, Earth mantle, kimberlites, plate tectonics, seismic	climate, carbon dioxide 'window', air pollution, fossil fuel, threat of 'greenhouse effect' 1959 July p 41-47 [823]
waves plumes Farth dynamics 1975 Mar. p. 50-63 [915]	'greenhouse effect' 1959 July p 41-47 (62-7) artificial satellite, ionosphere, climate, aurora borealis. Van Allen belts,
meteorite craters, cratering, fossil crater, fossil craters in Canadian Shield 1958 July p. 32-39	orbital motion, color particle influence on Earth atmosphere
meteorite fall, observed in Peoples Republic of China 1978 Feb. p. 84	wind, cloud, lee waves, soaring, glider, esthetic exploitation of lee
meteorite fall of 1947 meteorite radioactivity, cosmic radiation, cosmogenic helium, solar meteorite radioactivity, cosmic radiation, cosmogenic helium, solar	waves 1961 Mar p 124-134
guetam evolution enalistion of melectrics 1973 July p. 04-73	Arctic Ocean, ocean circulation, telemetry, Northeast Passage, ice-floe islands, bathymetry, marine biology, Soviet Arctic research
meteorites, moon, cratering, tectonic processes, origin of lunar craters 1949 July p. 20-24	1961 May p 88-102
radio echo, ion cloud, spectroscopy 1951 June p. 22–28	atmospheric circulation, weather, upper atmosphere, solar radiation. balloon and rocket observations 1964 Mar p 62-74
cosmic radiation, helium content, origin of meteorites	agradynamics air pollution microclimate, micrometeorology, fluid
decision and innertive decay solar system. Earth crust, age of solar	dynamics, troposphere, turbulence, atmospheric phenomena near me around 1964 Oct p 62-76
	satellite weather forecasting, weather satellites, Tiros, Essa,
meteoritic dust, solar system evolution, ocean sediments, cosmic meteoritic dust, solar system evolution, ocean sediments, cosmic 1960 Feb. p. 123-132 spherules' in ocean sediments	Applications Technology Satellites, Nimbus 1969 Jan p 52-68 U.S. withdraws Atlantic motherships 1953 Dec p 49
cratering, projectile, impact crater, fluid impact, criter of mass speed	mathematical weather predictions 1957 Sept p 103
impact	artificial generation of winds 1962 Mar p 76

ethadone therapy, turning addicts into taxpayers 1968 Sept p 85	binary arithmetic, Boolean logic, integrated circuits, large-scale
nethod of exhaustion, calculus, Euclidean geometry, falling-stone	integrated circuits, logic elements 1977 Sept p 82–106 [376]
problem, infinitesimals, mathematical logic, nonstandard analysis	charge-coupled devices, digital computer, magnetic bubble memories,
1972 June p 78–86	moving-surface memories, semiconductor memories
netric system, measurement, imperial system, metrication, U K	1977 Sept p 130–145 [378]
metrication program 1970 July p 17-25 [334]	computer technology, microcomputers, microprocessors
measurement, US changeover studied 1970 Oct p 52	1977 Sept p 146–161
measurement, advantages for industry 1972 May p 48	distributed-processing networks, computer technology
netrication, measurement, metric system, imperial system, U K	1977 Sept p 162–177 [380]
metrication program 1970 July p 17-25 [334]	automatic test systems, automatic control, measuring instruments,
measurement, metric system for US 1971 Sept p 76	control systems 1977 Sept p 180–190 [381]
measurement, US metric conversion act 1976 Mar p 60A	communication technology, digital transmission, telecommunication
netropolitan area, housing, urban planning, central city, suburbs, cities,	1977 Sept p 192–209 [382]
conurbation, evolution of the metropolis 1965 Sept p 64-74	computer modeling, municomputers, personal computers, FLEX,
metropolitan region, local government, cities, New York, central city,	LOGO, SMALLTALK 1977 Sept p 230–244 [384]
suburbs, Northeast Corridor, regional planning	microfibrils, collagen, elastın, fibroblasts 1971 June p 44–52 [1225]
1965 Sept p 134–148	microfiche, computer technology, information storage, information
Mexican agriculture, chinampa, canals, drainage, agricultural system,	retneval, microrecording, electronic scanner, library science
Aztec civilization, highly productive farm plots, Aztec empire	1966 Sept p 224–242
1964 July p 90–98 [648]	microfilaments, calcium-ion activator, cell motility, cell shape, embryonic
New World archeology, agricultural revolution, corn, urbanization,	development, microtubules 1971 Oct p 76–82 [1233]
New World agricultural revolution 1964 Nov p 29–37 [625]	microlayer oceanography, carbon dioxide, neuston, marine life, ocean
'green revolution', agronomy, food and agriculture, maize, potatoes	surface, rainwater composition, surfactant 1974 May p 62–77 [913]
1976 Sept p 128–150	micromanipulator, microsurgery, enucleation, cytosurgery
Mexico, Amerindian prehistory, Teotihuacan, Middle America, New	1950 Oct p 48–51
World archeology, pre-Columbian metropolis 1967 June p 38-48	cytosurgery, cell nucleus, on transplanting nuclei 1952 Apr p 58-64
Mexico City, poverty, buying habits, sociology, culture of poverty	micrometeorites, interplanetary space, Mars, Mariner 4, magnetosphere,
1969 Oct p 114–124 [651]	trapped radiation, atmosphere, solar wind, cosmic radiation, space
micro-machining, metals, semiconductors 1956 Apr p 62	exploration 1966 May p 62–72 170n from a comet 1949 Dec p 30
microanalysis, neutron activation, trace elements, radionuclides, decay	and the second s
properties 1967 Apr p 68–82	micrometeorology, aerodynamics, air pollution, microclimate, fluid
microbiology, Hooke, astronomy, science history, life and work of Robert Hooke 1954 Dec p 94-98	dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76
microchemistry, painting, art restoration, X-ray, spectroscopy, science in	phenomena near the ground 1964 Oct p 62-76 microorganisms, bacteriology, PPLO, virus, electron microscopy,
the art museum 1952 July p 22–27	cytology, smallest free-living cells 1962 Mar p 117–126 [1005]
microcircuit fabrication, electron optics, computer-controlled fabrication,	micropaleontology, glaciation, pollen chronology, living records of the ice
silicon 'chips', computer technology, integrated circuits	age 1949 May p 48-51 [834]
1972 Nov p 34-44	forest purifiers ocean floor almost button accorded a second of the seco
	foramınıfera, ocean floor, climate history recorded in ocean sediments
microclimate, aerodynamics, air pollution, micrometeorology, fluid	1962 July p 96–106 [856]
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric	1962 July p 96–106 [856] microprocessors, integrated circuits, metal-oxide semiconductors.
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76	1962 July p 96-106 [856] microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips'
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric	1962 July p 96-106 [856] microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62-76 air pollution, cities, climate, heat emission, heat pollution, infrared	1962 July p 96-106 [856] microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40 computer technology, microcomputers, microelectronics
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62-76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities	microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40 computer technology, microcomputers, microelectronics 1977 Sept p 146-161
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78	1962 July p 96–106 [856] microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32–40 computer technology, microcomputers, microelectronics 1977 Sept p 146–161 in automobiles 1975 Aug p 48 price still falling 1976 Sept p 66
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78 microcomputers, integrated circuits, metal-oxide semiconductors,	1962 July p 96–106 [856] microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32–40 computer technology, microcomputers, microelectronics 1977 Sept p 146–161 in automobiles 1975 Aug p 48 price still falling 1976 Sept p 66 micropulsations, Earth core, electromagnetic waves, magnetic field, Earth
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78 microcomputers, integrated circuits, metal-oxide semiconductors, microelectronics, microprocessors, minicomputers, silicon 'chips'	microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40 computer technology, microcomputers, microelectronics 1977 Sept p 146-161 in automobiles price still falling 1975 Aug p 48 price still falling 1976 Sept p 66 micropulsations, Earth core, electromagnetic waves, magnetic field, Earth mantle, longest electromagnetic wave 1962 July p 96-106 [856]
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78 microcomputers, integrated circuits, metal-oxide semiconductors, microelectronics, microprocessors, minicomputers, silicon 'chips' 1975 May p 32–40	microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40 computer technology, microcomputers, microelectronics 1977 Sept p 146-161 in automobiles 1975 Aug p 48 price still falling 1976 Sept p 66 micropulsations, Earth core, electromagnetic waves, magnetic field, Earth mantle, longest electromagnetic wave 1962 Mar p 128-137 microrecording, computer technology, information storage, information
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78 microcomputers, integrated circuits, metal-oxide semiconductors, microelectronics, microprocessors, minicomputers, silicon 'chips' 1975 May p 32–40 computer technology, microprocessors, microelectronics	microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40 computer technology, microcomputers, microelectronics 1977 Sept p 146-161 in automobiles 1975 Aug p 48 price still falling 1976 Sept p 66 micropulsations, Earth core, electromagnetic waves, magnetic field, Earth mantle, longest electromagnetic wave 1962 Mar p 128-137 microrecording, computer technology, information storage, information retrieval, electronic scanner, microfiche, library science
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78 microcomputers, integrated circuits, metal-oxide semiconductors, microelectronics, microprocessors, minicomputers, silicon 'chips' 1975 May p 32–40 computer technology, microprocessors, microelectronics 1977 Sept p 146–161	microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40 computer technology, microcomputers, microelectronics 1977 Sept p 146-161 in automobiles 1975 Aug p 48 price still falling 1976 Sept p 66 micropulsations, Earth core, electromagnetic waves, magnetic field, Earth mantle, longest electromagnetic wave 1962 July p 96-106 [856]
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78 microcomputers, integrated circuits, metal-oxide semiconductors, microelectronics, microprocessors, minicomputers, silicon 'chips' 1975 May p 32–40 computer technology, microprocessors, microelectronics 1977 Sept p 146–161 microduplex structure, materials technology, metalliding, superplasticity,	microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40 computer technology, microcomputers, microelectronics 1977 Sept p 146-161 in automobiles 1975 Aug p 48 price still falling 1976 Sept p 66 micropulsations, Earth core, electromagnetic waves, magnetic field, Earth mantle, longest electromagnetic wave 1962 Mar p 128-137 microrecording, computer technology, information storage, information retrieval, electronic scanner, microfiche, library science 1966 Sept p 224-242 microscopy, X-ray, optical resolution, X-ray microscope projected
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78 microcomputers, integrated circuits, metal-oxide semiconductors, microelectronics, microprocessors, minicomputers, silicon 'chips' 1975 May p 32–40 computer technology, microprocessors, microelectronics 1977 Sept p 146–161 microduplex structure, materials technology, metalliding, superplasticity, thermomechanical processing, grain structure, metals that can be	microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40 computer technology, microcomputers, microelectronics 1977 Sept p 146-161 in automobiles price still falling 1976 Sept p 66 micropulsations, Earth core, electromagnetic waves, magnetic field, Earth mantle, longest electromagnetic wave 1962 Mar p 128-137 microrecording, computer technology, information storage, information retrieval, electronic scanner, microfiche, library science 1966 Sept p 224-242 microscopy, X-ray, optical resolution, X-ray microscope projected 1949 Mar p 44-47
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78 microcomputers, integrated circuits, metal-oxide semiconductors, microelectronics, microprocessors, minicomputers, silicon 'chips' 1975 May p 32–40 computer technology, microprocessors, microelectronics 1977 Sept p 146–161 microduplex structure, materials technology, metalliding, superplasticity, thermomechanical processing, grain structure, metals that can be formed like plastics 1969 Mar p 28–35	microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40 computer technology, microcomputers, microelectronics 1977 Sept p 146-161 in automobiles 1975 Aug p 48 price still falling 1976 Sept p 66 micropulsations, Earth core, electromagnetic waves, magnetic field, Earth mantle, longest electromagnetic wave 1962 Mar p 128-137 microrecording, computer technology, information storage, information retrieval, electronic scanner, microfiche, library science 1966 Sept p 224-242 microscopy, X-ray, optical resolution, X-ray microscope projected 1949 Mar p 44-47 field-emission microscope, pictures of atoms
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78 microcomputers, integrated circuits, metal-oxide semiconductors, microelectronics, microprocessors, minicomputers, silicon 'chips' 1975 May p 32–40 computer technology, microprocessors, microelectronics 1977 Sept p 146–161 microduplex structure, materials technology, metalliding, superplasticity, thermomechanical processing, grain structure, metals that can be formed like plastics 1969 Mar p 28–35 microelectronics, integrated circuits electronic components industry,	microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40 computer technology, microcomputers, microelectronics 1977 Sept p 146-161 in automobiles 1975 Aug p 48 price still falling 1976 Sept p 66 micropulsations, Earth core, electromagnetic waves, magnetic field, Earth mantle, longest electromagnetic wave 1962 Mar p 128-137 microrecording, computer technology, information storage, information retrieval, electronic scanner, microfiche, library science 1966 Sept p 224-242 microscopy, X-ray, optical resolution, X-ray microscope projected 1949 Mar p 24-47 1952 May p 58-62 topographic microscope
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78 microcomputers, integrated circuits, metal-oxide semiconductors, microelectronics, microprocessors, minicomputers, silicon 'chips' 1975 May p 32–40 computer technology, microprocessors, microelectronics 1977 Sept p 146–161 microduplex structure, materials technology, metalliding, superplasticity, thermomechanical processing, grain structure, metals that can be formed like plastics 1969 Mar p 28–35 microelectronics, integrated circuits electronic components industry, transistor, silicon 'chips' 1965 No. p 56–70	microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40 computer technology, microcomputers, microelectronics 1977 Sept p 146-161 in automobiles 1975 Aug p 48 price still falling 1976 Sept p 66 micropulsations, Earth core, electromagnetic waves, magnetic field, Earth mantle, longest electromagnetic wave 1962 Mar p 128-137 microrecording, computer technology, information storage, information retrieval, electronic scanner, microfiche, library science 1966 Sept p 224-242 microscopy, X-ray, optical resolution, X-ray microscope projected 1949 Mar p 44-47 field-emission microscope, pictures of atoms topographic microscope 1952 May p 58-62 1954 Aug p 54-59 ultraviolet radiation, 'flying spot' microscope, ultra-microscopy of
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78 microcomputers, integrated circuits, metal-oxide semiconductors, microelectronics, microprocessors, minicomputers, silicon 'chips' 1975 May p 32–40 computer technology, microprocessors, microelectronics 1977 Sept p 146–161 microduplex structure, materials technology, metalliding, superplasticity, thermomechanical processing, grain structure, metals that can be formed like plastics 1969 Mar p 28–35 microelectronics, integrated circuits electronic components industry, transistor, silicon 'chips' 1965 Nox p 56–70 binary arithmetic, computer technology, integrated circuits, switching	microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40 computer technology, microcomputers, microelectronics 1977 Sept p 146-161 in automobiles
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78 microcomputers, integrated circuits, metal-oxide semiconductors, microelectronics, microprocessors, minicomputers, silicon 'chips' 1975 May p 32–40 computer technology, microprocessors, microelectronics 1977 Sept p 146–161 microduplex structure, materials technology, metalliding, superplasticity, thermomechanical processing, grain structure, metals that can be formed like plastics 1969 Mar p 28–35 microelectronics, integrated circuits electronic components industry, transistor, silicon 'chips' 1965 Nox p 56–70 binary arithmetic, computer technology, integrated circuits, switching elements, logic circuits, computer memory, hardware of computer	microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40 computer technology, microcomputers, microelectronics 1977 Sept p 146-161 in automobiles 1976 Sept p 66 micropulsations, Earth core, electromagnetic waves, magnetic field, Earth mantle, longest electromagnetic wave microrecording, computer technology, information storage, information retrieval, electronic scanner, microfiche, library science 1966 Sept p 224-242 microscopy, X-ray, optical resolution, X-ray microscope projected 1949 Mar p 44-47 field-emission microscope, pictures of atoms topographic microscope, pictures of atoms topographic microscope ultraviolet radiation, 'flying spot' microscope, ultra-microscopy of living cells 1958 May p 38-43 holography, laser, white-light reconstruction, color holography
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78 microcomputers, integrated circuits, metal-oxide semiconductors, microelectronics, microprocessors, minicomputers, silicon 'chips' 1975 May p 32–40 computer technology, microprocessors, microelectronics 1977 Sept p 146–161 microduplex structure, materials technology, metalliding, superplasticity, thermomechanical processing, grain structure, metals that can be formed like plastics 1969 Mar p 28–35 microelectronics, integrated circuits electronic components industry, transistor, silicon 'chips' 1965 Nov p 56–70 binary arithmetic, computer technology, integrated circuits, switching elements, logic circuits, computer memory, hardware of computer 1966 Sept p 74–85 oxide semiconductors, magnetic core, integrated circuits, computer	microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40 computer technology, microcomputers, microelectronics 1977 Sept p 146-161 in automobiles 1976 Sept p 66 micropulsations, Earth core, electromagnetic waves, magnetic field, Earth mantle, longest electromagnetic wave 1962 Mar p 128-137 microrecording, computer technology, information storage, information retrieval, electronic scanner, microfiche, library science 1966 Sept p 224-242 microscopy, X-ray, optical resolution, X-ray microscope projected 1949 Mar p 44-47 field-emission microscope, pictures of atoms topographic microscope 1954 Aug p 58-62 1954 Aug p 54-59 ultraviolet radiation, 'flying spot' microscope, ultra-microscopy of living cells 1968 Feb p 40-48
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78 microcomputers, integrated circuits, metal-oxide semiconductors, microelectronics, microprocessors, minicomputers, silicon 'chips' 1975 May p 32–40 computer technology, microprocessors, microelectronics 1977 Sept p 146–161 microduplex structure, materials technology, metalliding, superplasticity, thermomechanical processing, grain structure, metals that can be formed like plastics 1969 Mar p 28–35 microelectronics, integrated circuits electronic components industry, transistor, silicon 'chips' 1965 Nox p 56–70 binary arithmetic, computer technology, integrated circuits, switching elements, logic circuits, computer memory, hardware of computer	microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40 computer technology, microcomputers, microelectronics 1977 Sept p 146-161 in automobiles 1976 Sept p 66 micropulsations, Earth core, electromagnetic waves, magnetic field, Earth mantle, longest electromagnetic wave microrecording, computer technology, information storage, information retrieval, electronic scanner, microfiche, library science 1966 Sept p 224-242 microscopy, X-ray, optical resolution, X-ray microscope projected 1949 Mar p 44-47 field-emission microscope, pictures of atoms topographic microscope, pictures of atoms topographic microscope 1952 May p 58-62 1958 May p 38-43 holography, laser, white-light reconstruction, color holography 1968 Feb p 40-48 atom visibility, electron microscopy, scanning electron microscopy
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78 microcomputers, integrated circuits, metal-oxide semiconductors, microelectronics, microprocessors, minicomputers, silicon 'chips' 1975 May p 32–40 computer technology, microprocessors, microelectronics 1977 Sept p 146–161 microduplex structure, materials technology, metalliding, superplasticity, thermomechanical processing, grain structure, metals that can be formed like plastics 1969 Mar p 28–35 microelectronics, integrated circuits electronic components industry, transistor, silicon 'chips' 1965 Nox p 56–70 binary arithmetic, computer technology, integrated circuits, switching elements, logic circuits, computer memory, hardware of computer 1966 Sept p 74–85 oxide semiconductors, magnetic core, integrated circuits, computer micropy, advent of integrated-circuit semiconductor memories 1967 July p 18–31	microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40 computer technology, microcomputers, microelectronics 1977 Sept p 146-161 in automobiles 1976 Sept p 66 micropulsations, Earth core, electromagnetic waves, magnetic field, Earth mantle, longest electromagnetic wave 1962 Mar p 128-137 microrecording, computer technology, information storage, information retrieval, electronic scanner, microfiche, library science 1966 Sept p 224-242 microscopy, X-ray, optical resolution, X-ray microscope projected 1949 Mar p 44-47 field-emission microscope, pictures of atoms topographic microscope, pictures of atoms topographic microscope ultraviolet radiation, 'flying spot' microscope, ultra-microscopy of living cells holography, laser, white-light reconstruction, color holography 1968 Feb p 40-48 atom visibility, electron microscopy, scanning electron microscope 1971 Apr p 26-35 brain circuitry, nerve signals, nerve structure olfactors.
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78 microcomputers, integrated circuits, metal-oxide semiconductors, microelectronics, microprocessors, minicomputers, silicon 'chips' 1975 May p 32–40 computer technology, microprocessors, microelectronics 1977 Sept p 146–161 microduplex structure, materials technology, metalliding, superplasticity, thermomechanical processing, grain structure, metals that can be formed like plastics 1969 Mar p 28–35 microelectronics, integrated circuits electronic components industry, transistor, silicon 'chips' 1965 Nov p 56–70 binary arithmetic, computer technology, integrated circuits, switching elements, logic circuits, computer memory, hardware of computer 1966 Sept p 74–85 oxide semiconductors, magnetic core, integrated circuits, computer memory, advent of integrated-circuit semiconductor memones 1967 July p 18–31 computer memory, integrated circuits, metal-oxide semiconductors.	microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40 computer technology, microcomputers, microelectronics 1977 Sept p 146-161 in automobiles 1976 Sept p 66 micropulsations, Earth core, electromagnetic waves, magnetic field, Earth mantle, longest electromagnetic wave 1962 Mar p 128-137 microrecording, computer technology, information storage, information retrieval, electronic scanner, microfiche, library science 1966 Sept p 224-242 microscopy, X-ray, optical resolution, X-ray microscope projected 1949 Mar p 44-47 field-emission microscope, pictures of atoms topographic microscope, pictures of atoms topographic microscope 1952 May p 58-62 1958 May p 38-43 holography, laser, white-light reconstruction, color holography 1968 Feb p 40-48 atom visibility, electron microscopy, scanning electron microscope 1971 Apr p 26-35 brain circuitry, nerve signals, nerve structure, olfactory system staining techniques, Golgi stain, Nissl stain 1971 July p 48
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78 microcomputers, integrated circuits, metal-oxide semiconductors, microelectronics, microprocessors, minicomputers, silicon 'chips' 1975 May p 32–40 computer technology, microprocessors, microelectronics 1977 Sept p 146–161 microduplex structure, materials technology, metalliding, superplasticity, thermomechanical processing, grain structure, metals that can be formed like plastics 1969 Mar p 28–35 microelectronics, integrated circuits electronic components industry, transistor, silicon 'chips' 1965 Nox p 56–70 binary arithmetic, computer technology, integrated circuits, switching elements, logic circuits, computer memory, hardware of computer 1966 Sept p 74–85 oxide semiconductors, magnetic core, integrated circuits, computer memory, advent of integrated-circuit semiconductor memories 1967 July p 18–31 computer memory, integrated circuits, metal-oxide semiconductors, large-scale integrated circuits, logic circuits, transistor	microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40 computer technology, microcomputers, microelectronics 1977 Sept p 146-161 in automobiles 1976 Sept p 66 micropulsations, Earth core, electromagnetic waves, magnetic field, Earth mantle, longest electromagnetic wave 1962 Mar p 128-137 microrecording, computer technology, information storage, information retrieval, electronic scanner, microfiche, library science 1966 Sept p 224-242 microscopy, X-ray, optical resolution, X-ray microscope projected 1949 Mar p 44-47 field-emission microscope, pictures of atoms topographic microscope, pictures of atoms topographic microscope ultraviolet radiation, 'flying spot' microscope, ultra-microscopy of living cells holography, laser, white-light reconstruction, color holography 1968 Feb p 40-48 atom visibility, electron microscopy, scanning electron microscope 1971 Apr p 26-35 brain circuitry, nerve signals, nerve structure, olfactory system staining techniques. Golgi stain, Nissl stain 1971 July p 48-60 [1227] scanning electron microscope, light microscope. Iransmission electron
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78 microcomputers, integrated circuits, metal-oxide semiconductors, microelectronics, microprocessors, minicomputers, silicon 'chips' 1975 May p 32–40 computer technology, microprocessors, microelectronics 1977 Sept p 146–161 microduplex structure, materials technology, metalliding, superplasticity, thermomechanical processing, grain structure, metals that can be formed like plastics 1969 Mar p 28–35 microelectronics, integrated circuits electronic components industry, transistor, silicon 'chips' 1965 Nox p 56–70 binary arithmetic, computer technology, integrated circuits, switching elements, logic circuits, computer memory, hardware of computer memory, advent of integrated-circuit semiconductor memores 1967 July p 18–31 computer memory, integrated circuits, transitor 1970 Feb p 22–31	microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40 computer technology, microcomputers, microelectronics 1977 Sept p 146-161 in automobiles 1976 Sept p 66 micropulsations, Earth core, electromagnetic waves, magnetic field, Earth mantle, longest electromagnetic wave 1962 Mar p 128-137 microrecording, computer technology, information storage, information retrieval, electronic scanner, microfiche, library science 1966 Sept p 224-242 microscopy, X-ray, optical resolution, X-ray microscope projected field-emission microscope, pictures of atoms topographic microscope, pictures of atoms topographic microscope ultraviolet radiation, 'flying spot' microscope, ultra-microscopy of living cells holography, laser, white-light reconstruction, color holography 1968 Feb p 40-48 atom visibility, electron microscopy, scanning electron microscope 1971 Apr p 26-35 brain circuitry, nerve signals, nerve structure, olfactory system staining techniques. Golgi stain, Nissl stain 1971 July p 48-60 [1227] scanning electron microscope, light microscope, transmission electron microscope, three-demensional pictures by scanning electron
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78 microcomputers, integrated circuits, metal-oxide semiconductors, microelectronics, microprocessors, minicomputers, silicon 'chips' 1975 May p 32–40 computer technology, microprocessors, microelectronics 1977 Sept p 146–161 microduplex structure, materials technology, metalliding, superplasticity, thermomechanical processing, grain structure, metals that can be formed like plastics 1969 Mar p 28–35 microelectronics, integrated circuits electronic components industry, transistor, silicon 'chips' 1965 Nox p 56–70 binary arithmetic, computer technology, integrated circuits, switching elements, logic circuits, computer memory, hardware of computer 1966 Sept p 74–85 oxide semiconductors, magnetic core, integrated circuits, computer memory, advent of integrated-circuit semiconductor memories 1967 July p 18–31 computer memory, integrated circuits, metal-oxide semiconductors, large-scale integrated circuits, logic circuits, transistor 1970 Feb p 22–31 accelerated-ion technique, ion implantation, semiconductor, 'doping'	microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40 computer technology, microcomputers, microelectronics 1977 Sept p 146-161 in automobiles 1976 Sept p 66 micropulsations, Earth core, electromagnetic waves, magnetic field, Earth mantle, longest electromagnetic wave information retrieval, electronic scanner, microfiche, library science 1966 Sept p 224-242 microscopy, X-ray, optical resolution, X-ray microscope projected 1966 Sept p 224-242 microscopy, X-ray, optical resolution, X-ray microscope projected 1949 Mar p 44-47 1952 May p 58-62 topographic microscope, pictures of atoms 1952 May p 58-62 ultraviolet radiation, 'flying spot' microscope, ultra-microscopy of living cells 1958 May p 38-43 holography, laser, white-light reconstruction, color holography atom visibility, electron microscopy, scanning electron microscope 1971 Apr p 26-35 brain circuitry, nerve signals, nerve structure, olfactory system staining techniques, Golgi stain, Nissl stain 1971 July p 48-60 [1227] scanning electron microscope, light microscope, transmission electron microscope
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78 microcomputers, integrated circuits, metal-oxide semiconductors, microelectronics, microprocessors, minicomputers, silicon 'chips' 1975 May p 32–40 computer technology, microprocessors, microelectronics 1977 Sept p 146–161 microduplex structure, materials technology, metalliding, superplasticity, thermomechanical processing, grain structure, metals that can be formed like plastics 1969 Mar p 28–35 microelectronics, integrated circuits electronic components industry, transistor, silicon 'chips' 1965 Nox p 56–70 binary arithmetic, computer technology, integrated circuits, switching elements, logic circuits, computer memory, hardware of computer 1966 Sept p 74–85 oxide semiconductors, magnetic core, integrated circuits, computer memory, advent of integrated-circuit semiconductor memories 1967 July p 18–31 computer memory, integrated circuits, metal-oxide semiconductors, large-scale integrated circuits, logic circuits, transistor 1970 Feb p 22–31 accelerated-ion technique, ion implantation, semiconductor, 'doping' 1973 Apr. p. 64–71	microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40 computer technology, microcomputers, microelectronics 1977 Sept p 146-161 in automobiles 1976 Sept p 66 micropulsations, Earth core, electromagnetic waves, magnetic field, Earth mantle, longest electromagnetic wave 1962 Mar p 128-137 microrecording, computer technology, information storage, information retrieval, electronic scanner, microfiche, library science 1966 Sept p 224-242 microscopy, X-ray, optical resolution, X-ray microscope projected field-emission microscope, pictures of atoms topographic microscope ultraviolet radiation, 'flying spot' microscope, ultra-microscopy of living cells 1958 May p 38-43 holography, laser, white-light reconstruction, color holography 1968 Feb p 40-48 atom visibility, electron microscopy, scanning electron microscope 1971 Apr p 26-35 brain circuitry, nerve signals, nerve structure, olfactory system staining techniques. Golgi stain, Nissl stain 1971 July p 48-60 [1227] scanning electron microscope, light microscope, transmission electron microscope with depth of focus 1959 Jan p 69
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78 microcomputers, integrated circuits, metal-oxide semiconductors, microelectronics, microprocessors, minicomputers, silicon 'chips' 1975 May p 32–40 computer technology, microprocessors, microelectronics 1977 Sept p 146–161 microduplex structure, materials technology, metalliding, superplasticity, thermomechanical processing, grain structure, metals that can be formed like plastics 1969 Mar p 28–35 microelectronics, integrated circuits electronic components industry, transistor, silicon 'chips' 1965 Nov p 56–70 binary arithmetic, computer technology, integrated circuits, switching elements, logic circuits, computer memory, hardware of computer memory, advent of integrated-circuit semiconductor memories 1967 July p 18–31 computer memory, integrated circuits, integrated circuits, computer memories 1967 July p 18–31 computer memory, integrated circuits, metal-oxide semiconductors, large-scale integrated circuits, logic circuits, transistor 1970 Feb p 22–31 accelerated-ion technique, ion implantation, semiconductor, 'doping' 1973 Apr p 64–71 integrated circuits, metal-oxide semiconductor, 'doping' 1973 Apr p 64–71 integrated circuits, metal-oxide semiconductors, silicon 'chips'.	microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40 computer technology, microcomputers, microelectronics 1977 Sept p 146-161 in automobiles 1976 Sept p 66 micropulsations, Earth core, electromagnetic waves, magnetic field, Earth mantle, longest electromagnetic wave 1962 Mar p 128-137 microrecording, computer technology, information storage, information retrieval, electronic scanner, microfiche, library science 1966 Sept p 224-242 microscopy, X-ray, optical resolution, X-ray microscope projected 1949 Mar p 44-47 field-emission microscope, pictures of atoms topographic microscope, pictures of atoms topographic microscope 1954 Aug p 58-62 1958 May p 38-43 holography, laser, white-light reconstruction, color holography 1968 Feb p 40-48 atom visibility, electron microscopy, scanning electron microscope brain circuitry, nerve signals, nerve structure, olfactory system staining techniques, Golgi stain, Nissl stain 1971 July p 48-60 [1227] scanning electron microscope, light microscope, transmission electron microscope, three-demensional pictures by scanning electron microscope with depth of focus 1972 Jan p 54-69 1959 Jan p 69 microseisms, scismology, weather earthquales
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78 microcomputers, integrated circuits, metal-oxide semiconductors, microelectronics, microprocessors, minicomputers, silicon 'chips' 1975 May p 32–40 computer technology, microprocessors, microelectronics 1977 Sept p 146–161 microduplex structure, materials technology, metalliding, superplasticity, thermomechanical processing, grain structure, metals that can be formed like plastics 1969 Mar p 28–35 microelectronics, integrated circuits electronic components industry, transistor, silicon 'chips' 1965 Nox p 56–70 binary arithmetic, computer technology, integrated circuits, switching elements, logic circuits, computer memory, hardware of computer 1966 Sept p 74–85 oxide semiconductors, magnetic core, integrated circuits, computer memory, advent of integrated-circuit semiconductor memores 1967 July p 18–31 computer memory, integrated circuits, logic circuits, transistor 1970 Feb p 22–31 accelerated-ion technique, ion implantation, semiconductor, 'doping' integrated circuits, metal-oxide semiconductors silicon 'chips'. 1973 Apr p 64–71 integrated circuits metal-oxide semiconductors silicon 'chips'. 1973 Aug p 48–57 integrated circuits metal-oxide semiconductors microcomputers	microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40 computer technology, microcomputers, microelectronics 1977 Sept p 146-161 in automobiles 1976 Sept p 66 micropulsations, Earth core, electromagnetic waves, magnetic field, Earth mantle, longest electromagnetic wave 1962 Mar p 128-137 microrecording, computer technology, information storage, information retrieval, electronic scanner, microfiche, library science 1966 Sept p 224-242 microscopy, X-ray, optical resolution, X-ray microscope projected 1949 Mar p 44-47 field-emission microscope, pictures of atoms topographic microscope, pictures of atoms topographic microscope 1954 Aug p 54-59 ultraviolet radiation, 'flying spot' microscope, ultra-microscopy of living cells 1958 May p 38-43 holography, laser, white-light reconstruction, color holography 1968 Feb p 40-48 atom visibility, electron microscopy, scanning electron microscope brain circuitry, nerve signals, nerve structure, olfactory system staining techniques, Golgi stain, Nissl stain 1971 July p 48-60 [1227] scanning electron microscope, three-demensional pictures by scanning electron microscope, three-demensional pictures by scanning electron microscope, with depth of focus 1959 Jan p 69 microseisms, seismology, weather, earthquakes 1949 Feb p 42-45 microsome, protein synthesis ribosome, RNA cytology, recognition of
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78 microcomputers, integrated circuits, metal-oxide semiconductors, microelectronics, microprocessors, minicomputers, silicon 'chips' 1975 May p 32–40 computer technology, microprocessors, microelectronics 1977 Sept p 146–161 microduplex structure, materials technology, metalliding, superplasticity, thermomechanical processing, grain structure, metals that can be formed like plastics 1969 Mar p 28–35 microelectronics, integrated circuits electronic components industry, transistor, silicon 'chips' 1965 Nox p 56–70 binary arithmetic, computer technology, integrated circuits, switching elements, logic circuits, computer memory, hardware of computer 1966 Sept p 74–85 oxide semiconductors, magnetic core, integrated circuits, computer micropy, advent of integrated-circuit semiconductor memories 1967 July p 18–31 computer memory, integrated circuits, logic circuits, transistor 1970 Feb p 22–31 accelerated-ion technique, ion implantation, semiconductor, 'doping' 1973 Apr p 64–71 integrated circuits, metal-oxide semiconductors silicon 'chips'. transitor 1973 Aug p 48–57 integrated circuits metal-oxide semiconductors silicon 'chips'.	microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40 computer technology, microcomputers, microelectronics 1977 Sept p 146-161 in automobiles 1976 Sept p 66 micropulsations, Earth core, electromagnetic waves, magnetic field, Earth mantle, longest electromagnetic wave 1962 Mar p 128-137 microrecording, computer technology, information storage, information retrieval, electronic scanner, microfiche, library science 1966 Sept p 224-242 microscopy, X-ray, optical resolution, X-ray microscope projected 1949 Mar p 44-47 field-emission microscope, pictures of atoms topographic microscope, pictures of atoms topographic microscope ultraviolet radiation, 'flying spot' microscope, ultra-microscopy of living cells holography, laser, white-light reconstruction, color holography 1968 Feb p 40-48 atom visibility, electron microscopy, scanning electron microscope techniques, Golgi stain, Nissl stain 1971 July p 48-60 [1227] scanning electron microscope, light microscope, transmission electron microscope, three-demensional pictures by scanning electron microscope, three-demensional pictures by scanning electron microscope, protein synthesis ribosome, RNA cytology, recognition of nbosome as site of protein synthesis 1985 May p 38-43 1972 Jan p 54-69 1979 Jan p 69 1979 Jan p 69 1979 Jan p 69
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78 microcomputers, integrated circuits, metal-oxide semiconductors, microelectronics, microprocessors, microelectronics 1975 May p 32–40 computer technology, microprocessors, microelectronics 1977 Sept p 146–161 microduplex structure, materials technology, metalliding, superplasticity, thermomechanical processing, grain structure, metals that can be formed like plastics 1969 Mar p 28–35 microelectronics, integrated circuits electronic components industry, transistor, silicon 'chips' 1965 Nov p 56–70 binary arithmetic, computer technology, integrated circuits, switching elements, logic circuits, computer memory, hardware of computer 1966 Sept p 74–85 oxide semiconductors, magnetic core, integrated circuits, computer memory, advent of integrated-circuit semiconductor memories 1967 July p 18–31 computer memory, integrated circuits, logic circuits, transistor 1970 Feb p 22–31 accelerated-ion technique, ion implantation, semiconductor, 'doping' 1970 Feb p 22–31 integrated circuits, metal-oxide semiconductor silicon 'chips', transistor 1973 Aug p 48–57 integrated circuits, metal-oxide semiconductors microcomputers microprocessors minicomputers, silicon 'chips' 1975 May p 32–40 electronic circuitry, integrated circuits, beneficial representations.	microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40 computer technology, microcomputers, microelectronics 1977 Sept p 146-161 in automobiles 1976 Sept p 66 micropulsations, Earth core, electromagnetic waves, magnetic field, Earth mantle, longest electromagnetic wave 1962 Mar p 128-137 microrecording, computer technology, information storage, information retrieval, electronic scanner, microfiche, library science 1966 Sept p 224-242 microscopy, X-ray, optical resolution, X-ray microscope projected 1949 Mar p 44-47 field-emission microscope, pictures of atoms topographic microscope, pictures of atoms topographic microscope ultraviolet radiation, 'flying spot' microscope, ultra-microscopy of living cells 1958 May p 38-43 holography, laser, white-light reconstruction, color holography 1968 Feb p 40-48 atom visibility, electron microscopy, scanning electron microscope brain circuitry, nerve signals, nerve structure, olfactory system staining techniques, Golgi stain, Nissl stain 1971 July p 48-60 [1227] scanning electron microscope, light microscope, transmission electron microscope, three-demensional pictures by scanning electron microscope, three-demensional pictures by scanning electron microscope, protein synthesis nbosome, RNA cytology, recognition of nbosome as site of protein synthesis 1958 Mar p 118-124 [52] fatty acid synthesis acetic acid, coenzyme A, lecithin, lipids synthesis
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78 microcomputers, integrated circuits, metal-oxide semiconductors, microelectronics, microprocessors, microelectronics 1975 May p 32–40 computer technology, microprocessors, microelectronics 1977 Sept p 146–161 microduplex structure, materials technology, metalliding, superplasticity, thermomechanical processing, grain structure, metals that can be formed like plastics 1969 Mar p 28–35 microelectronics, integrated circuits electronic components industry, transistor, silicon 'chips' 1965 Nov p 56–70 binary arithmetic, computer technology, integrated circuits, switching elements, logic circuits, computer memory, hardware of computer 1966 Sept p 74–85 oxide semiconductors, magnetic core, integrated circuits, computer memory, advent of integrated-circuit semiconductor memories 1967 July p 18–31 computer memory, integrated circuits, logic circuits, transistor 1970 Feb p 22–31 accelerated-ion technique, ion implantation, semiconductor, 'doping' 1970 Feb p 22–31 integrated circuits, metal-oxide semiconductor silicon 'chips', transistor 1973 Aug p 48–57 integrated circuits, metal-oxide semiconductors microcomputers microprocessors minicomputers, silicon 'chips' 1975 May p 32–40 electronic circuitry, integrated circuits, beneficial representations.	microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40 computer technology, microcomputers, microelectronics 1977 Sept p 146-161 in automobiles 1976 Sept p 66 micropulsations, Earth core, electromagnetic waves, magnetic field, Earth mantle, longest electromagnetic wave 1962 Mar p 128-137 microrecording, computer technology, information storage, information retrieval, electronic scanner, microfiche, library science 1966 Sept p 224-242 microscopy, X-ray, optical resolution, X-ray microscope projected 1949 Mar p 44-47 field-emission microscope, pictures of atoms topographic microscope, pictures of atoms 1952 May p 58-62 topographic microscope ultraviolet radiation, 'flying spot' microscope, ultra-microscopy of 1958 May p 38-43 holography, laser, white-light reconstruction, color holography 1968 Feb p 40-48 atom visibility, electron microscopy, scanning electron microscope brain circuitry, nerve signals, nerve structure, olfactory system staining techniques, Golgi stain, Nissl stain 1971 July p 48-60 [1227] scanning electron microscope, light microscope, transmission electron microscope, three-demensional pictures by scanning electron microscope with depth of focus 1959 Jan p 69 microseisms, seismology, weather, earthquakes 1949 Feb p 42-45 microsome, protein synthesis ribosome, RNA cytology, recognition of ribosome, protein synthesis nbosome, RNA cytology, recognition of ribosome as site of protein synthesis 1958 Mar p 118-124 [52] fatty acid synthesis acetic acid, coenzyme A, lecithin, lipids synthesis not breakdown in reverse
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78 microcomputers, integrated circuits, metal-oxide semiconductors, microelectronics, microprocessors, minicomputers, silicon 'chips' 1975 May p 32–40 computer technology, microprocessors, microelectronics 1977 Sept p 146–161 microduplex structure, materials technology, metalliding, superplasticity, thermomechanical processing, grain structure, metals that can be formed like plastics 1969 Mar p 28–35 microelectronics, integrated circuits electronic components industry, transistor, silicon 'chips' 1965 Nov p 56–70 binary anthmetic, computer technology, integrated circuits, switching elements, logic circuits, computer memory, hardware of computer 1966 Sept p 74–85 oxide semiconductors, magnetic core, integrated circuits, computer memory, advent of integrated circuit semiconductor memories 1967 July p 18–31 computer memory, integrated circuits, logic circuits, transistor 1970 Feb p 22–31 accelerated-ion technique, ion implantation, semiconductor, 'doping' 1973 Apr p 64–71 integrated circuits, metal-oxide semiconductors silicon 'chips' 1973 Aug p 48–57 integrated circuits metal-oxide semiconductors microcomputers microprocessors minicomputers, silicon 'chips' 1975 May p 32–40 electronic circuits, integrated circuits technological innovation, silicon 'chips' introduction to single-topic issue on microelectronics integrated circuits, integrated circuits technological innovation.	microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40 computer technology, microcomputers, microelectronics 1977 Sept p 146-161 in automobiles 1976 Sept p 248 price still falling 1976 Sept p 66 micropulsations, Earth core, electromagnetic waves, magnetic field, Earth mantle, longest electromagnetic wave 1962 Mar p 128-137 microrecording, computer technology, information storage, information retrieval, electronic scanner, microfiche, library science 1966 Sept p 224-242 microscopy, X-ray, optical resolution, X-ray microscope projected 1949 Mar p 44-47 field-emission microscope, pictures of atoms 1952 May p 58-62 topographic microscope 1954 Aug p 54-59 ultraviolet radiation, 'flying spot' microscope, ultra-microscopy of living cells 1958 May p 38-43 holography, laser, white-light reconstruction, color holography atom visibility, electron microscopy, scanning electron microscope 1971 Apr p 26-35 brain circuitry, nerve signals, nerve structure, olfactory system staining techniques, Golgi stain, Nissl stain 1971 July p 48-60 [1227] scanning electron microscope, light microscope, transmission electron microscope with depth of focus 1972 Jan p 54-69 with depth of focus 1972 Jan p 54-69 with depth of focus 1972 Jan p 54-69 microsome, protein synthesis nbosome, RNA cytology, recognition of nbosome as site of protein synthesis 1958 Mar p 118-124 [52] fatty acid synthesis acetic acid, coenzyme A, lecithin, lipids synthesis not breakdown in reverse 1960 Feb p 46-51 microsurgery, micromanipulator, enucleation, cytosurgery
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78 microcomputers, integrated circuits, metal-oxide semiconductors, microelectronics, microprocessors, microelectronics 1975 May p 32–40 computer technology, microprocessors, microelectronics 1977 Sept p 146–161 microduplex structure, materials technology, metalliding, superplasticity, thermomechanical processing, grain structure, metals that can be formed like plastics 1969 Mar p 28–35 microelectronics, integrated circuits electronic components industry, transistor, silicon 'chips' 1965 Nov p 56–70 binary antimetic, computer technology, integrated circuits, switching elements, logic circuits, computer memory, hardware of computer 1966 Sept p 74–85 oxide semiconductors, magnetic core, integrated circuits, computer memory, advent of integrated-circuit semiconductor memories 1967 July p 18–31 computer memory, integrated circuits, logic circuits, transistor 1970 Feb p 22–31 accelerated-ion technique, ion implantation, semiconductor, 'doping' integrated circuits, metal-oxide semiconductor, 'doping' 1973 Apr p 64–71 integrated circuits, metal-oxide semiconductors microemputers microprocessors minicomputers, silicon 'chips' 1973 Aug p 48–57 integrated circuits, metal-oxide semiconductors microcomputers microprocessors minicomputers, silicon 'chips' 1975 May p 32–40 electronic circuits, integrated circuits technological innovation, silicon 'chips' introduction to single-topic issue on microelectronics integrated circuits logic pates metal-oxide semiconductors	microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40 computer technology, microcomputers, microelectronics 1977 Sept p 146-161 in automobiles 1976 Sept p 248 price still falling 1976 Sept p 66 micropulsations, Earth core, electromagnetic waves, magnetic field, Earth mantle, longest electromagnetic wave 1962 Mar p 128-137 microrecording, computer technology, information storage, information retrieval, electronic scanner, microfiche, library science 1966 Sept p 224-242 microscopy, X-ray, optical resolution, X-ray microscope projected 1949 Mar p 44-47 field-emission microscope, pictures of atoms 1952 May p 58-62 topographic microscope 1954 Aug p 54-59 ultraviolet radiation, 'flying spot' microscope, ultra-microscopy of living cells 1958 May p 38-43 holography, laser, white-light reconstruction, color holography atom visibility, electron microscopy, scanning electron microscope 1971 Apr p 26-35 brain circuitry, nerve signals, nerve structure, olfactory system staining techniques, Golgi stain, Nissl stain 1971 July p 48-60 [1227] scanning electron microscope, light microscope, transmission electron microscope with depth of focus 1972 Jan p 54-69 with depth of focus 1972 Jan p 54-69 with depth of focus 1972 Jan p 54-69 microsome, protein synthesis nbosome, RNA cytology, recognition of nbosome as site of protein synthesis 1958 Mar p 118-124 [52] fatty acid synthesis acetic acid, coenzyme A, lecithin, lipids synthesis not breakdown in reverse 1960 Feb p 46-51 microsurgery, micromanipulator, enucleation, cytosurgery
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78 microcomputers, integrated circuits, metal-oxide semiconductors, microelectronics, microprocessors, minicomputers, silicon 'chips' 1975 May p 32–40 computer technology, microprocessors, microelectronics 1977 Sept p 146–161 microduplex structure, materials technology, metalliding, superplasticity, thermomechanical processing, grain structure, metals that can be formed like plastics 1969 Mar p 28–35 microelectronics, integrated circuits electronic components industry, transistor, silicon 'chips' 1965 Nov p 56–70 binary anthmetic, computer technology, integrated circuits, switching elements, logic circuits, computer memory, hardware of computer 1966 Sept p 74–85 oxide semiconductors, magnetic core, integrated circuits, computer memory, advent of integrated circuit semiconductor memories 1967 July p 18–31 computer memory, integrated circuits, logic circuits, transistor 1970 Feb p 22–31 accelerated-ion technique, ion implantation, semiconductor, 'doping' 1973 Apr p 64–71 integrated circuits, metal-oxide semiconductors silicon 'chips' 1973 Aug p 48–57 integrated circuits metal-oxide semiconductors microcomputers microprocessors minicomputers, silicon 'chips' 1975 May p 32–40 electronic circuits, integrated circuits technological innovation, silicon 'chips' introduction to single-topic issue on microelectronics integrated circuits, integrated circuits technological innovation.	microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40 computer technology, microcomputers, microelectronics 1977 Sept p 146-161 in automobiles 1975 Aug p 48 price still falling 1976 Sept p 66 micropulsations, Earth core, electromagnetic waves, magnetic field, Earth mantle, longest electromagnetic wave 1962 Mar p 128-137 microrecording, computer technology, information storage, information retrieval, electronic scanner, microfiche, library science 1966 Sept p 224-242 microscopy, X-ray, optical resolution, X-ray microscope projected 1949 Mar p 44-47 field-emission microscope, pictures of atoms topographic microscope 1954 Aug p 54-59 ultraviolet radiation, 'flying spot' microscope, ultra-microscopy of living cells 1958 May p 38-43 holography, laser, white-light reconstruction, color holography 1968 Feb p 40-48 atom visibility, electron microscopy, scanning electron microscope 1971 Apr p 26-35 brain circuitry, nerve signals, nerve structure, olfactory system staining techniques, Golgi stain, Nissl stain 1971 July p 48-60 [1227] scanning electron microscope, light microscope, transmission electron microscope, three-demensional pictures by scanning electron microscope with depth of focus 1972 Jan p 54-69 1959 Jan p 69 1959 Jan p 69 1959 Jan p 69 1959 Jan p 69 1958 Mar p 118-124 [52] fatty acid synthesis acetic acid, coenzyme A, lecithin, lipids synthesis not breakdown in reverse 1960 Feb p 46-51 microsurgery, micromanipulator, enucleation, cytosurgery

alloys, crystal structure, dendrites, metal casting, solidification of metal	solar system wileture and the
1974 Dec n 99 as	solar system, relative isotope abundance, age of solar system 1960 Nov p 171–182 [253]
alloying, mechanical alloying, metal-powder alloying 1976 May p 40–48	coesite, astroblemes, shatter cones, cratering, fossil Earth-catastrophes
Bronze Age, Iron Age, ironworking history, carburizing, quenching 1977 Oct p 122–131 [699]	shock waves, exploding wire, streak photography, generation of shock
fiber metallurgy 1956 Jan p 50	waves by exploding wire 1962 May p 102-112
soldering technic 1966 Apr n 64	extraterrestrial life, chondrites, pangenesis, organic molecules organic
methogic, grammar, truth, logic, philosophy, sentence, mathematical	molecules in carbonaceous chondrites 1963 Mar p 43-49
proof, antimony of the liar, proof and truth 1969 June p 63-77	Earth, tektites, moon, moon as source of tektites 1964 Feb p 50-57
Gödel's proof, mathematical logic, undecidable questions	asteroids, Icarus, orbital motion 1965 Apr p 106-115
1971 Mar p 50–60	lunar luminescence, moon, solar radiation, Kepler crater, solar flares
metals, crystal structure, field-emission microscope, pictures of atoms	impact of solar protons? 1965 May p 28-37 diamond, Canyon Diablo meteorite, iron-nickel phases, shock
1957 June p 113–122	hypothesis, asteroids, origin of meteorites 1965 Oct p 26-36
crystal structure, materials technology, aligned crystals, alignment of	comet, geomagnetism, magnetic reversals, tektites, meteoritic impacts
crystals for control of mechanical and magnetic properties	1967 July p 32-38
1959 Apr p 125–141	Apollo project, moon, lunar soil, regolith, structure and history of
ionizing radiation, crystal structure, solid state physics, displacement of crystal structure by radiation 1959 Sept p 200-213	moon 1970 Aug p 14-23
crystal structure by radiation 1959 Sept p 200-213 crystal structure, Fermi surface, gross properties explained as quantum	albedo, asteroids, planetisimal collisions, solar system formation
effects 1963 July p. 110-120	primordial dust cloud 1975 Jan p 24-33
effects 1963 July p 110–120 crystal structure, whiskers, fiber-reinforced, dislocations, matrix,	carbonaceous chondrites, chondrites, solar system, primordial dust
composite materials, two-phase materials 1965 Feb p 28-37	cloud 1975 Feb p 30-38
composite materials, two-phase materials 1965 Feb p 28~37 glass, materials technology, ceramics, polymers, chemical band,	potassium-argon dating 1960 Feb p 72
composite materials, atom, elements, introduction to single-topic	Tungus forest 1961 Jan p 80
	Earth satellite(?) 1965 Nov p 50
issue on materials 1967 Sept p 68-79 crystal structure, solid-state electronics, X-ray crystallography,	fall on English town 1966 Sept p 109 Allende meteorite, meteorite analysis 1971 Aug. p 46
semiconductor, nonmetals, materials technology, amorphous solid,	
	5 T T T T T T T T T T T T T T T T T T T
electrical conductivity 1967 Sept p 80-89 alloys, materials technology, crystal structure, grain boundaries, lattice	
defects, dislocations, electron 'gas', nature of metals	meteoritic amino acids, carbonaceous chondrates, chemical evolution
1967 Sept p 90–100	meteoritic hydrocarbons, Opann-Haldane hypothesis 1972 June p 38-46 [902]
input-output analysis, interchangeability of materials, cost assessment,	meteoritic dust, meteorites, solar system evolution, ocean sediments,
price trends, materials technology, plastics, competition among	'cosmic spherules' in ocean sediments 1960 Feb p 123-132
materials 1967 Sept p 254-266	unner atmosphere cloud mesonause condensation nuclei, rockel-
crystal structure, X-ray diffraction, liquid state, physics of metals in the	horne collectors sample noctificate clouds 1963 June p 30-37
liquid state 1969 July p 72-82	meteoritic hydrocarbons, carbonaceous chondrites, chemical evolution
plate tectonics, sea-floor spreading, mid-ocean ridge, hydrothermal	metagritio amino acide Onaria Haldane hunothesis
extraction, manganese nodules, origin of metal deposits on ocean	1972 June p 38-40 [502]
floor 1978 Feb p 54-61 [929]	meteoritic impact, fossil crater, Chubb crater, cratering, astroblemes 1951 May p 64-69
metamorphosis, autolysis, lysosomes, enzymes, phagocytosis, pinocytosis,	1951 May p 58-65 [802]
cellular digestive organ, 'suicide bag' 1963 May p 64-72 [156]	tektites, strewn fields, origin of glassy stone 1961 Nov p 58-65 [802] meteorological research, U.S. National Institute of Atmospheric Research
amphibian, frog, thyroxin, pituitary gland, hypothalamus,	1958 Apr p 50
neurosecretory system, hormone, chemistry of amphibian metamorphosis 1966 May p 76–88 [1042]	to all an area of the strategy that a strategy to the strategy
see also insect metamorphosis	communication, aurora, noctilucent clouds 1949 Jan p 30-39
metazoa, Volvox, cell aggregation, between single-celled and multi-celled	the state of the s
organisms 1950 May p 52–55	1931 DEC DOT
meteor, photographed from above 1976 Apr p 61	hurricanes, typhoons, radar 1954 June p 32-37
meteorids, asteroids, moons, solar system, planetisimals	wind, atmospheric circulation, cyclone, anticyclones source of prevailing winds 1956 Dec p 40-45 [841]
1975 Sept p 142-159	prevailing winds 1956 Dec p 40-15 (but)
meteorite age, fission-track dating, geochronology, glass age, mineral age,	climate, weather, solar wind, ionosphere, coronametry, Earth's weather and solar wind 1957 Apr p 138-148 [849]
pottery age, radioactive decay, uranium fission	and solar wind 1957 Apr p 136-140 to 1957 across rain, condensation nuclei, ocean foam, salt particles, cloud physics rain,
1976 Dec p 114-122	seasalt and rain
meteorite bombardment, cratering, planetary ages, solar system evolution,	January and the standard and and and age to get the forecasting
cratering of four inner planets as key to solar-system history 1977 Jan p 84-99 [351]	1958 May b 31-5.
meteorite composition, Earth mantle, kimberlites, plate tectonics, seismic	climate, carbon dioxide 'window', air pollution, fossil fuel threat of
waves, plumes, Earth dynamics 1975 Mar p 50-63 [915]	forcenhouse effect' 1939 July P 41-47 10-1
meteorite craters, cratering, fossil crater, fossil craters in Canadian Shield	artificial satellite, ionosphere, climate, aurora borealis Van Allen belts
1938 July p 32–33	orbital motion, solar particle influence on Earth atmosphere 1959 Aug p 37-43 [851]
meteorite fall, observed in Peoples Republic of China 1978 Feb p 84	at all and look going course glider eithetic exploitation of lee
matacrite fell of 1047	1901 1/101 17 12 1
meteorite radioactivity, cosmic radiation, cosmogenic helium, solar	Arctic Ocean, ocean circulation, telemetry, Northeast Passage, ice 110c
	islands, bathymetry, marine biology, Soviet Arctic research 1961 May p 88-102
meteorites, moon, cratering, tectonic processes, origin of lunar craters 1949 July p 20-24	1901 Viav p no some et massibles esplas sudultion
radio echo son cloud spectroscopy 1951 June p 22–28	atmospheric circulation, weather, upper atmosphere solar radiation balloon and rocket observations 1964 Mar p 62-74
- J Lalium content origin of melecinics	battor microclimate micrometeorology fluid
	dynamics transcribers turbulence, atmospheric phenomena hear ma
isotope dating, radioactive decay, solar system, Earth crust, age of solar 1957 Apr p 80-94 [102]	
	catallity weather forecasting weather salelines 1103 LSS1
meteoritic dust, solar system evolution, ocean sediments 'cosmic 1960 Feb p 123-132	Applications Technology Saletines Trimbas
spherules in ocean sediments	U.S. withdraws Atlantic motiverships 1957 Sept. p. 108
cratering, projectile, impact crater, fluid impact, 1960 Oct p 128-140	mathematical weather production 1962 Mar p 76 artificial generation of winds
impact	mi server Dance

spiral galaxies, interstellar hydrogen, radio astronomy	excavating machines, tunneling, rock borers, earth-moving, surface mining 1967 Nov p 74-85
Gum Nebula, ionized-hydrogen cloud, Strömgren sphere 1971 Dec p 20-29	uron ore, ore beneficiation, low-grade ores, hematite, taconite 1968 Jan p 28-35
galaxy structure, interstellar matter, stellar formation, supernovae, galactic dust clouds, nebulae, Gum Nebula, Bok globules	mining industry, ocean floor, mineral resources, manganese nodules, minerals on the ocean floor 1960 Dec p 64-72 Minoan civilization, Mycenaean civilization, Hebrew civilization, Linear
1972 Aug p 48-61	A script, Linear B script, Crete, Semites, common origin of Greek
galactic center, quasars, radio source, Sagittarius A, Seyfert galaxies,	and Hebrew civilizations 1965 Feb p 102–111
spiral galaxies 1974 Apr p 66–77	
size of galaxy 1957 July p 65	Minoan culture, texts deciphered 1962 May p 82 Minoan language, Linear B script, Homer, Greek civilization, cryptology,
gravitational attraction of extragalatic neighbors 1958 Jan p 46	
galactic rotation 1960 June p 84	
Milky Way galaxy, reclassified as Sc spiral 1965 Apr p 64	Minturna, Classical archeology, city as quarry, slow death of a city 1954 July p 66-70
Miller-Urey experiment, origins of life, high-energy radiation,	
heterotrophs, fermentation, photosynthesis, autotrophs	Miocene desiccation, evaponte minerals, fossil record, Glomar
1954 Aug. p 44-53 [47]	Challenger findings, salt, Mediterranean as desert
Milorganite, vitamins, from Milwaukee sewage 1952 Apr p 40	1972 Dec p 26–36 [904]
mimicry, birds, camouflage, caterpillars, behavioral adaptation, defense	Miocene fossils, hominid, human evolution, primate evolution,
by color 1957 Oct p 48-54	Ramapithecus 1977 May p 28–35 [695]
alkaloids, butterfly, larvae, symbiosis, insect repellants, behavioral	mirages, atmospheric optics, optical illusion, refraction, Fata Morgana,
adaptation, plant evolution, butterfly-plant association	walking on water 1976 Jan p 102–111
1967 June p 104-113 [1076]	mirror images, parity, symmetry, time reversal, CPT mirror
predation, plant toxins, food chain, milkweed, blue jay, predator-prey	1965 Dec p 28-36 [301]
relationship, ecology, chemical defense against predation	bilateral symmetry, left-right asymmetry, central nervous system
1969 Feb p 22-29 [1133]	1971 Mar p 96~104 [535]
birds, finches, parasitism, sexual behavior, widow birds, animal	MIRV: multiple independently-targetable reentry vehicle
behavior 1974 Oct p 92-98	MIRV, ABM, SALT, deterrence, ICBM, arms race, counterforce strategy,
Minamata disease, mercury cycle, mercury poisoning, mercury pollution	dynamics, instability of arms race 1969 Apr p 15-25 [642]
1971 May p 15-21 [1221]	ABM, arms race, ICBM, SLBM, mutual assured destruction,
mine drainage, steam engine, technology history, Watt, pumps, Industrial	counterforce strategy, strategic balance, national security
Revolution, Newcomen engine, origins of steam engine	1969 Aug p 17-29 [330]
1964 Jan p 98-107	atomic weapons, arms race, SALT, counterforce strategy, mutual
mineral age, fission-track dating, geochronology, glass age, meteorite age,	assured destruction, MIRV, as key to SALT negotiations
pottery age, radioactive decay, uranium fission	1970 Jan p 19-29 [654]
1976 Dec p 114-122	ABM systems, arms race, ICBM, atomic weapons, SALT, atomic test
mineral cycles, ATP, biosphere, phosphorus cycle, sulfur cycle, sulfur	ban, strategic weapons, prospects for freeze on numbers and
bacteria, carboxylation cycle, eutrophication, mineral cycles in the	qualitative improvement of weapons 1971 Jan p 15-25
biosphere 1970 Sept p 148–158 [1195]	arms race, missile submannes, SLBM, Polans, Trident, Poseidon
mineral deposits, hydrothermal extraction, mineral resources, plate	missile 1972 June p 15–27 [344]
tectonics, mineral prospecting, non-ferrous ore	ABM, ICBM, atomic armaments, counterforce strategy, strategic
1973 July p 86-95 [909]	weapons, mutual assured destruction arms race 1973 Nov p 18-27
mineral prospecting, magnetometer, geomagnetism, natural resources,	mutual assured destruction, counterforce strategy, military
mining, aerial prospecting 1961 June p 151–162	expenditures, SALT, arms race, MARV 1974 May p 20-31
b) dratharmal autrantina mineral Januaria	
hydrothermal extraction, mineral deposits, mineral resources, plate	counterforce strategy, atomic weapons cruise missiles, arms race,
tectonics, non-ferrous ore 1973 July p 86-95 [909]	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C.E.P., accuracy as multiplier of
tectonics, non-ferrous ore 1973 July p 86-95 [909] mineral resources, Amazon, tropical rain forest, developing countries,	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C E.P., accuracy as multiplier of force 1975 July p 14-23
tectonics, non-ferrous ore 1973 July p 86-95 [909] mineral resources, Amazon, tropical rain forest, developing countries, resource prospecting, economic planning, forest management,	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C E.P., accuracy as multiplier of force 1975 July p 14-23 missile accuracy, counterforce strategy, atomic weapons, cruise missiles.
tectonics, non-ferrous ore 1973 July p 86-95 [909] mineral resources, Amazon, tropical rain forest, developing countries, resource prospecting, economic planning, forest management, electric power, the Amazon frontier 1948 May p 11-14	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C.E.P., accuracy as multiplier of force 1975 July p. 14-23 missile accuracy, counterforce strategy, atomic weapons, cruise missiles. MIRV, arms race, strategic weapons. C.E.P., accuracy as multiplier
tectonics, non-ferrous ore 1973 July p 86-95 [909] mineral resources, Amazon, tropical rain forest, developing countries, resource prospecting, economic planning, forest management, electric power, the Amazon frontier 1948 May p 11-14 ocean floor, manganese nodules, mining industry, minerals on the	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C E.P., accuracy as multiplier of force 1975 July p 14-23 missile accuracy, counterforce strategy, atomic weapons, cruise missiles, MIRV, arms race, strategic weapons C E P, accuracy as multiplier of force 1975 July p 14-23
tectonics, non-ferrous ore 1973 July p 86–95 [909] mineral resources, Amazon, tropical rain forest, developing countries, resource prospecting, economic planning, forest management, electric power, the Amazon frontier 1948 May p 11–14 ocean floor, managanese nodules, mining industry, minerals on the ocean floor 1960 Dec. p. 64–72	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C.E.P., accuracy as multipher of force 1975 July p 14-23 missile accuracy, counterforce strategy, atomic weapons, cruise missiles, MIRV, arms race, strategic weapons C.E.P., accuracy as multipher of force 1975 July p 14-23 missile policy, arms race, atomic test ban, national security, atomic bomb
tectonics, non-ferrous ore 1973 July p 86-95 [909] mineral resources, Amazon, tropical rain forest, developing countries, resource prospecting, economic planning, forest management, electric power, the Amazon frontier 1948 May p 11-14 ocean floor, manganese nodules, mining industry, minerals on the ocean floor 1960 Dec p 64-72 economic development, technology transfer, industrialization, metal	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C.E.P., accuracy as multiplier of force 1975 July p. 14-23 missile accuracy, counterforce strategy, atomic weapons, cruise missiles, MIRV, arms race, strategic weapons C.E.P., accuracy as multiplier of force 1975 July p. 14-23 missile policy, arms race, atomic test ban, national security, atomic bomb test, military technology, fallout shelters 1964 Oct. p. 27-35 [319]
tectonics, non-ferrous ore 1973 July p 86–95 [909] mineral resources, Amazon, tropical rain forest, developing countries, resource prospecting, economic planning, forest management, electric power, the Amazon frontier 1948 May p 11–14 ocean floor, managanese nodules, mining industry, minerals on the ocean floor 1960 Dec p 64–72 economic development, technology transfer, industrialization, metal consumption natural resources and technological substitution	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C.E.P., accuracy as multiplier of force 1975 July p. 14-23 missile accuracy, counterforce strategy, atomic weapons, cruise missiles, MIRV, arms race, strategic weapons C.E.P., accuracy as multiplier of force 1975 July p. 14-23 missile policy, arms race, atomic test ban, national security, atomic bomb test, military technology, fallout shelters 1964 Oct. p. 27-35 [319] missile submarines, arms race, SLBM, MIRV, Polaris, Trident, Poseidon
tectonics, non-ferrous ore 1973 July p 86-95 [909] mineral resources, Amazon, tropical rain forest, developing countries, resource prospecting, economic planning, forest management, electric power, the Amazon frontier 1948 May p 11-14 ocean floor, manganese nodules, mining industry, minerals on the ocean floor 1960 Dec p 64-72 economic development, technology transfer, industrialization, metal consumption natural resources and technological substitution 1963 Sept p 128-136	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C.E.P., accuracy as multiplier of force 1975 July p. 14-23 missile accuracy, counterforce strategy, atomic weapons, cruise missiles. MIRV, arms race, strategic weapons C.E.P., accuracy as multiplier of force 1975 July p. 14-23 missile policy, arms race, atomic test ban, national security, atomic bomb test, multiary technology, fallout shelters 1964 Oct. p. 27-35 [319] missile submarines, arms race, SLBM, MIRV, Polaris, Trident, Poseidon missile 1972 June p. 15-27 [344]
tectonics, non-ferrous ore 1973 July p 86-95 [909] mineral resources, Amazon, tropical rain forest, developing countries, resource prospecting, economic planning, forest management, electric power, the Amazon frontier 1948 May p 11-14 ocean floor, manganese nodules, mining industry, minerals on the ocean floor 1960 Dec p 64-72 economic development, technology transfer, industrialization, metal consumption natural resources and technological substitution 1963 Sept p 128-136 pollution ocean, sea water, wetlands, ocean floor, physical resources of	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C E.P., accuracy as multiplier of force 1975 July p 14-23 missile accuracy, counterforce strategy, atomic weapons, cruise missiles. MIRV, arms race, strategic weapons C E.P., accuracy as multiplier of force 1975 July p 14-23 missile policy, arms race, atomic test ban, national security, atomic bomb test, military technology, fallout shelters 1964 Oct p 27-35 [319] missile submarines, arms race, SLBM, MIRV, Polaris, Trident, Poseidon missile 1972 June p 15-27 [344] arms control, antisubmarine warfare, SALT, mutual assured
tectonics, non-ferrous ore 1973 July p 86–95 [909] mineral resources, Amazon, tropical rain forest, developing countries, resource prospecting, economic planning, forest management, electric power, the Amazon frontier 1948 May p 11–14 ocean floor, manganese nodules, mining industry, minerals on the ocean floor 1960 Dec p 64–72 economic development, technology transfer, industrialization, metal consumption natural resources and technological substitution 1963 Sept p 128–136 pollution ocean, sea water, wetlands, ocean floor, physical resources of the ocean	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C E.P., accuracy as multiplier of force 1975 July p 14-23 missile accuracy, counterforce strategy, atomic weapons, cruise missiles. MIRV, arms race, strategic weapons C E.P., accuracy as multiplier of force 1975 July p 14-23 missile policy, arms race, atomic test ban, national security, atomic bomb test, military technology, fallout shelters 1964 Oct p 27-35 [319] missile submarines, arms race, SLBM, MIRV, Polaris, Trident, Poseidon missile 1972 June p 15-27 [344] arms control, antisubmarine warfare, SALT, mutual assured destruction, SLBM, sonar, acoustic detection
tectonics, non-ferrous ore 1973 July p 86-95 [909] mineral resources, Amazon, tropical rain forest, developing countries, resource prospecting, economic planning, forest management, electric power, the Amazon frontier 1948 May p 11-14 ocean floor, manganese nodules, mining industry, minerals on the ocean floor 1960 Dec p 64-72 economic development, technology transfer, industrialization, metal consumption natural resources and technological substitution 1963 Sept p 128-136 pollution ocean, sea water, wetlands, ocean floor, physical resources of the ocean 1969 Sept p 166-176 [885] hydrothermal extraction, mineral deposits, plate tectonics, mineral	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C.E.P., accuracy as multiplier of force 1975 July p. 14-23 missile accuracy, counterforce strategy, atomic weapons, cruise missiles. MIRV, arms race, strategic weapons C.E.P., accuracy as multiplier of force 1975 July p. 14-23 missile policy, arms race, atomic test ban, national security, atomic bomb test, military technology, fallout shelters 1964 Oct. p. 27-35 [319] missile submarines, arms race, SLBM, MIRV, Polaris, Trident, Poseidon missile 1972 June p. 15-27 [344] arms control, antisubmarine warfare, SALT, mutual assured destruction, SLBM, sonar, acoustic detection 1972 July p. 14-25 [345]
tectonics, non-ferrous ore 1973 July p 86–95 [909] mineral resources, Amazon, tropical rain forest, developing countries, resource prospecting, economic planning, forest management, electric power, the Amazon frontier 1948 May p 11–14 ocean floor, manganese nodules, mining industry, minerals on the ocean floor 1960 Dec p 64–72 economic development, technology transfer, industrialization, metal consumption natural resources and technological substitution 1963 Sept p 128–136 pollution ocean, sea water, wetlands, ocean floor, physical resources of the ocean 1969 Sept p 166–176 [885] hydrothermal extraction, mineral deposits, plate tectonics, mineral prospecting, non-ferrous ore 1973 July p 86–95 [909]	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C.E.P., accuracy as multiplier of force 1975 July p. 14-23 missile accuracy, counterforce strategy, atomic weapons, cruise missiles. MIRV, arms race, strategic weapons C.E.P., accuracy as multiplier of force 1975 July p. 14-23 missile policy, arms race, atomic test ban, national security, atomic bomb test, military technology, fallout shelters 1964 Oct. p. 27-35 [319] missile submarines, arms race, SLBM, MIRV, Polaris, Trident, Poseidon missile 1972 June p. 15-27 [344] arms control, antisubmarine warfare, SALT, mutual assured destruction, SLBM, sonar, acoustic detection 1972 July p. 14-25 [345] missiles, fizzles
tectonics, non-ferrous ore 1973 July p 86–95 [909] mineral resources, Amazon, tropical rain forest, developing countries, resource prospecting, economic planning, forest management, electric power, the Amazon frontier 1948 May p 11–14 ocean floor 1960 Dec p 64–72 economic development, technology transfer, industrialization, metal consumption natural resources and technological substitution 1963 Sept p 128–136 pollution ocean, sea water, wetlands, ocean floor, physical resources of the ocean 1969 Sept p 166–176 [885] hydrothermal extraction, mineral deposits, plate tectonics, mineral prospecting, non-ferrous ore 1973 July p 86–95 [909] mineral separation, flotation, surfactant, bubbles, collector ions ore	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C.E.P., accuracy as multiplier of force 1975 July p. 14-23 missile accuracy, counterforce strategy, atomic weapons, cruise missiles. MIRV, arms race, strategic weapons C.E.P., accuracy as multiplier of force 1975 July p. 14-23 missile policy, arms race, atomic test ban, national security, atomic bomb test, military technology, fallout shelters 1964 Oct. p. 27-35 [319] missile submarines, arms race, SLBM, MIRV, Polaris, Trident, Poseidon missile 1972 June p. 15-27 [344] arms control, antisubmarine warfare, SALT, mutual assured destruction. SLBM, sonar, acoustic detection 1972 July p. 14-25 [345] missiles, fizzles 1955 Sept. p. 72 'mission-oriented' funding agencies, fundamental research curosity.
tectonics, non-ferrous ore 1973 July p 86–95 [909] mineral resources, Amazon, tropical rain forest, developing countries, resource prospecting, economic planning, forest management, electric power, the Amazon frontier 1948 May p 11–14 ocean floor, manganese nodules, mining industry, minerals on the ocean floor 1960 Dec p 64–72 economic development, technology transfer, industrialization, metal consumption natural resources and technological substitution 1963 Sept p 128–136 pollution ocean, sea water, wetlands, ocean floor, physical resources of the ocean 1969 Sept p 166–176 [885] hydrothermal extraction, mineral deposits, plate tectonics, mineral prospecting, non-ferrous ore 1973 July p 86–95 [909] mineral separation, flotation, surfactant, bubbles, collector ions ore beneficiation	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C.E.P., accuracy as multiplier of force 1975 July p. 14-23 missile accuracy, counterforce strategy, atomic weapons, cruise missiles, MIRV, arms race, strategic weapons C.E.P., accuracy as multiplier of force 1975 July p. 14-23 missile policy, arms race, atomic test ban, national security, atomic bomb test, military technology, fallout shelters 1964 Oct. p. 27-35 [319] missile submarines, arms race, SLBM, MIRV, Polaris, Trident, Poseidon missile 1972 June p. 15-27 [344] arms control, antisubmarine warfare, SALT, mutual assured destruction. SLBM, sonar, acoustic detection 1972 July p. 14-25 [345] missiles, fizzles 1955 Sept. p. 72 'mission-oriented' funding agencies, fundamental research curiosity, science funding university science, N.S.F., introduction to a single-
tectonics, non-ferrous ore 1973 July p 86–95 [909] mineral resources, Amazon, tropical rain forest, developing countries, resource prospecting, economic planning, forest management, electric power, the Amazon frontier 1948 May p 11–14 ocean floor 1960 Dec p 64–72 economic development, technology transfer, industrialization, metal consumption natural resources and technological substitution 1963 Sept p 128–136 pollution ocean, sea water, wetlands, ocean floor, physical resources of the ocean 1969 Sept p 166–176 [885] hydrothermal extraction, mineral deposits, plate tectonics, mineral prospecting, non-ferrous ore 1973 July p 86–95 [909] mineral separation, flotation, surfactant, bubbles, collector ions ore beneficiation 1962 Oct. p. 38–47 [854]	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C.E.P., accuracy as multiplier of force 1975 July p. 14-23 missile accuracy, counterforce strategy, atomic weapons, cruise missiles, MIRV, arms race, strategic weapons C.E.P., accuracy as multiplier of force 1975 July p. 14-23 missile policy, arms race, atomic test ban, national security, atomic bomb test, military technology, fallout shelters 1964 Oct. p. 27-35 [319] missile submarines, arms race, SLBM, MIRV, Polaris, Trident, Poseidon missile 1972 June p. 15-27 [344] arms control, antisubmarine warfare, SALT, mutual assured destruction, SLBM, sonar, acoustic detection 1972 July p. 14-25 [345] missiles, fizzles 1955 Sept. p. 72 mission-oriented funding agencies, fundamental research curosity, science funding university science, N.S.F., introduction to a single-topic issue on fundamental questions in science. 1953 Sept. p. 47-51
tectonics, non-ferrous ore 1973 July p 86–95 [909] mineral resources, Amazon, tropical rain forest, developing countries, resource prospecting, economic planning, forest management, electric power, the Amazon frontier 1948 May p 11–14 ocean floor, manganese nodules, mining industry, minerals on the ocean floor 1960 Dec p 64–72 economic development, technology transfer, industrialization, metal consumption natural resources and technological substitution 1963 Sept p 128–136 pollution ocean, sea water, wetlands, ocean floor, physical resources of the ocean 1969 Sept p 166–176 [885] hydrothermal extraction, mineral deposits, plate tectonics, mineral prospecting, non-ferrous ore 1973 July p 86–95 [909] mineral separation, flotation, surfactant, bubbles, collector ions ore beneficiation 1956 Dec p 99–110 minerals, fluid inclusions, geology, Earth history, ancient fluids in crystals minicomputers, integrated circuits, metal-oxide semiconductors	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C.E.P., accuracy as multipher of force 1975 July p. 14-23 missile accuracy, counterforce strategy, atomic weapons, cruise missiles. MIRV, arms race, strategic weapons. C.E.P., accuracy as multiplier of force 1975 July p. 14-23 missile policy, arms race, atomic test ban, national security, atomic bomb test, military technology, fallout shelters 1964 Oct. p. 27-35 [319] missile submarines, arms race, SLBM, MIRV, Polaris, Trident, Poseidon missile 1972 June p. 15-27 [344] arms control, antisubmarine warfare, SALT, mutual assured destruction. SLBM, sonar, acoustic detection 1972 July p. 14-25 [345] missiles, fizzles 1955 Sept. p. 72 'mission-oriented' funding agencies, fundamental research curiosity, science funding university science, N.S.F., introduction to a single-topic issue on fundamental questions in science. 1953 Sept. p. 47-51 N.S.F., science funding, institutional grants, science policy.
tectonics, non-ferrous ore 1973 July p 86–95 [909] mineral resources, Amazon, tropical rain forest, developing countries, resource prospecting, economic planning, forest management, electric power, the Amazon frontier 1948 May p 11–14 ocean floor, manganese nodules, mining industry, minerals on the ocean floor 1960 Dec p 64–72 economic development, technology transfer, industrialization, metal consumption natural resources and technological substitution 1963 Sept p 128–136 pollution ocean, sea water, wetlands, ocean floor, physical resources of the ocean 1969 Sept p 166–176 [885] hydrothermal extraction, mineral deposits, plate tectonics, mineral prospecting, non-ferrous ore 1973 July p 86–95 [909] mineral separation, flotation, surfactant, bubbles, collector ions ore beneficiation 1956 Dec p 99–110 minerals, fluid inclusions, geology, Earth history, ancient fluids in crystals minicomputers, integrated circuits, metal-oxide semiconductors	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C.E.P., accuracy as multipher of force 1975 July p. 14–23 missile accuracy, counterforce strategy, atomic weapons, cruise missiles. MIRV, arms race, strategic weapons. C.E.P., accuracy as multiplier of force 1975 July p. 14–23 missile policy, arms race, atomic test ban, national security, atomic bomb test, military technology, fallout shelters 1964 Oct. p. 27–35 [319] missile submarines, arms race, SLBM, MIRV, Polaris, Trident, Poseidon missile 1972 June p. 15–27 [344] arms control, antisubmarine warfare, SALT, mutual assured destruction, SLBM, sonar, acoustic detection 1972 July p. 14–25 [345] missiles, fizzles 1955 Sept. p. 72 'mission-oriented' funding agencies, fundamental research curiosity, science funding university science, N.S.F., introduction to a single-topic issue on fundamental questions in science. 1953 Sept. p. 47–51 N.S.F., science funding, institutional grants, science policy, fundamental research, project grants, university science, problems in
tectonics, non-ferrous ore immeral resources, Amazon, tropical rain forest, developing countries, resource prospecting, economic planning, forest management, electric power, the Amazon frontier il 948 May p 11-14 ocean floor, managanese nodules, mining industry, minerals on the ocean floor il 960 Dec p 64-72 economic development, technology transfer, industrialization, metal consumption natural resources and technological substitution il 963 Sept p 128-136 pollution ocean, sea water, wetlands, ocean floor, physical resources of the ocean il 969 Sept p 166-176 [885] hydrothermal extraction, mineral deposits, plate tectonics, mineral prospecting, non-ferrous ore il 973 July p 86-95 [909] mineral separation, flotation, surfactant, bubbles, collector ions ore beneficiation il 956 Dec p 99-110 minerals, fluid inclusions, geology, Earth history, ancient fluids in crystals 1962 Oct p 38-47 [854] minicomputers, integrated circuits, metal-oxide semiconductors microcomputers, microelectronics, microprocessors, silicon 'chips'	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C.E.P., accuracy as multipher of force 1975 July p. 14-23 missile accuracy, counterforce strategy, atomic weapons, cruise missiles. MIRV, arms race, strategic weapons. C.E.P., accuracy as multipher of force 1975 July p. 14-23 missile policy, arms race, atomic test ban, national security, atomic bomb test, military technology, fallout shelters 1964 Oct. p. 27-35 [319] missile submarines, arms race, SLBM, MIRV, Polaris, Trident, Poseidon missile 1972 June p. 15-27 [344] arms control, antisubmarine warfare, SALT, mutual assured destruction. SLBM, sonar, acoustic detection 1972 July p. 14-25 [345] missiles, fizzles 1955 Sept. p. 72 mission-oriented funding agencies, fundamental research curiosity, science funding university science, N.S.F., introduction to a single-topic issue on fundamental questions in science 1953 Sept. p. 47-51 N.S.F., science funding, institutional grants, science policy, fundamental research, project grants, university science, problems in government support of science in the U.S. 1965 July p. 19-25
tectonics, non-ferrous ore inineral resources, Amazon, tropical rain forest, developing countries, resource prospecting, economic planning, forest management, electric power, the Amazon frontier il 948 May p 11-14 ocean floor, manganese nodules, mining industry, minerals on the ocean floor il 960 Dec p 64-72 economic development, technology transfer, industrialization, metal consumption natural resources and technological substitution il 963 Sept p 128-136 pollution ocean, sea water, wetlands, ocean floor, physical resources of the ocean il 1969 Sept p 166-176 [885] hydrothermal extraction, mineral deposits, plate tectonics, mineral prospecting, non-ferrous ore il 1973 July p 86-95 [909] mineral separation, flotation, surfactant, bubbles, collector ions ore beneficiation il 1956 Dec p 99-110 minerals, fluid inclusions, geology, Earth history, ancient fluids in crystals 1962 Oct p 38-47 [854] minicomputers, integrated circuits, metal-oxide semiconductors microcomputers, microelectronics, microprocessors, silicon 'chips' 1975 May p 32-40 computer modeling microelectronics personal computers, FLEX,	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C.E.P., accuracy as multipher of force 1975 July p. 14–23 missile accuracy, counterforce strategy, atomic weapons, cruise missiles. MIRV, arms race, strategic weapons. C.E.P., accuracy as multipher of force 1975 July p. 14–23 missile policy, arms race, atomic test ban, national security, atomic bomb test, military technology, fallout shelters 1964 Oct. p. 27–35 [319] missile submarines, arms race, SLBM, MIRV, Polaris, Trident, Poseidon missile 1972 June p. 15–27 [344] arms control, antisubmarine warfare, SALT, mutual assured destruction. SLBM, sonar, acoustic detection 1972 July p. 14–25 [345] missiles, fizzles 1955 Sept. p. 72 mission-oriented funding agencies, fundamental research curosity, science funding university science, N.S.F., introduction to a single-topic issue on fundamental questions in science 1953 Sept. p. 47–51 N.S.F., science funding, institutional grants, science policy, fundamental research, project grants, university science, problems in government support of science in the U.S. 1965 July p. 19–25 science funding, project funding decried 1952 Dec. p. 38 science funding, independence of scientists 1953 May p. 53
tectonics, non-ferrous ore 1973 July p 86–95 [909] mineral resources, Amazon, tropical rain forest, developing countries, resource prospecting, economic planning, forest management, electric power, the Amazon frontier 1948 May p 11–14 ocean floor 1960 Dec p 64–72 economic development, technology transfer, industrialization, metal consumption natural resources and technological substitution 1963 Sept p 128–136 pollution ocean, sea water, wetlands, ocean floor, physical resources of the ocean 1969 Sept p 166–176 [885] hydrothermal extraction, mineral deposits, plate tectonics, mineral prospecting, non-ferrous ore 1973 July p 86–95 [909] mineral separation, flotation, surfactant, bubbles, collector ions ore beneficiation 1956 Dec p 99–110 minerals, fluid inclusions, geology, Earth history, ancient fluids in crystals 1962 Oct p 38–47 [854] minicomputers, integrated circuits, metal-oxide semiconductors microcomputers, microelectronics, microprocessors, silicon 'chips' 1975 May p 32–40 computer modeling microelectronics personal computers, FLEX, LOGO SMALLTALK	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C.E.P., accuracy as multipher of force 1975 July p. 14–23 missile accuracy, counterforce strategy, atomic weapons, cruise missiles. MIRV, arms race, strategic weapons. C.E.P., accuracy as multipher of force 1975 July p. 14–23 missile policy, arms race, atomic test ban, national security, atomic bomb test, military technology, fallout shelters 1964 Oct. p. 27–35 [319] missile submarines, arms race, SLBM, MIRV, Polaris, Trident, Poseidon missile 1972 June p. 15–27 [344] arms control, antisubmarine warfare, SALT, mutual assured destruction. SLBM, sonar, acoustic detection 1972 July p. 14–25 [345] missiles, fizzles 1955 Sept. p. 72 mission-oriented funding agencies, fundamental research curiosity, science funding university science, N.S.F., introduction to a single-topic issue on fundamental questions in science. 1953 Sept. p. 47–51 N.S.F., science funding, institutional grants, science policy, fundamental research, project grants, university science, problems in government support of science in the U.S. 1965 July p. 19–25 science funding, project funding decried 1952 Dec. p. 38 science funding, independence of scientist 1953 May. p. 53 science funding, mission-onented research 1958 Sept. p. 470–470 missiles, fundamental project funding decried 1952 Dec. p. 38 1958 Each p. 470 missiles, fundamental project funding decried 1953 May. p. 53 science funding, mission-onented research 1953 Sept. p. 470 missiles, fundamental project funding decried 1952 Dec. p. 38 1958 Each p. 470 missiles, fundamental project funding decried 1952 Dec. p. 38 1958 Each p. 470 missiles, fundamental project funding decried 1953 May. p. 53 science funding, mission-onented research 1953 Sept. p. 470 missiles, fundamental project funding decried 1953 Sept. p. 470 missiles, fundamental project funding decried 1953 Sept. p. 470 missiles, fundamental project fundamental project fundamental project fundamental project fundamental project fundament
mineral resources, Amazon, tropical rain forest, developing countries, resource prospecting, economic planning, forest management, electric power, the Amazon frontier 1948 May p 11-14 ocean floor, manganese nodules, mining industry, minerals on the ocean floor 1960 Dec p 64-72 economic development, technology transfer, industrialization, metal consumption natural resources and technological substitution 1963 Sept p 128-136 pollution ocean, sea water, wetlands, ocean floor, physical resources of the ocean 1969 Sept p 166-176 [885] hydrothermal extraction, mineral deposits, plate tectonics, mineral prospecting, non-ferrous ore 1973 July p 86-95 [909] mineral separation, flotation, surfactant, bubbles, collector ions ore beneficiation 10tation, surfactant, bubbles, collector ions ore beneficiation 1956 Dec p 99-110 minerals, fluid inclusions, geology, Earth history, ancient fluids in crystals 1962 Oct p 38-47 [854] minicomputers, integrated circuits, metal-oxide semiconductors microcomputers, microelectronics, microprocessors, silicon 'chips' computer modeling microelectronics personal computers, FLEX, LOGO SMALLTALK 1977 Sept p 230-244 [384] minimax, games theory, decision theory, pure strategy, mixed stratges,	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C.E.P., accuracy as multipher of force 1975 July p. 14–23 missile accuracy, counterforce strategy, atomic weapons, cruise missiles. MIRV, arms race, strategic weapons. C.E.P., accuracy as multipher of force 1975 July p. 14–23 missile policy, arms race, atomic test ban, national security, atomic bomb test, military technology, fallout shelters 1964 Oct. p. 27–35 [319] missile submarines, arms race, SLBM, MIRV, Polaris, Trident, Poseidon missile 1972 June p. 15–27 [344] arms control, antisubmarine warfare, SALT, mutual assured destruction. SLBM, sonar, acoustic detection 1972 July p. 14–25 [345] missiles, fizzles 1955 Sept. p. 72 mission-oriented funding agencies, fundamental research curiosity, science funding university science, N.S.F., introduction to a single-topic issue on fundamental questions in science. 1953 Sept. p. 47–51 N.S.F., science funding, institutional grants, science policy, fundamental research, project grants, university science, problems in government support of science in the U.S. 1965 July p. 19–25 science funding, project funding decried 1952 Dec. p. 38 science funding, independence of scientist 1953 May. p. 53 science funding, mission-onented research 1958 Sept. p. 470–470 missiles, fundamental project funding decried 1952 Dec. p. 38 1958 Each p. 470 missiles, fundamental project funding decried 1953 May. p. 53 science funding, mission-onented research 1953 Sept. p. 470 missiles, fundamental project funding decried 1952 Dec. p. 38 1958 Each p. 470 missiles, fundamental project funding decried 1952 Dec. p. 38 1958 Each p. 470 missiles, fundamental project funding decried 1953 May. p. 53 science funding, mission-onented research 1953 Sept. p. 470 missiles, fundamental project funding decried 1953 Sept. p. 470 missiles, fundamental project funding decried 1953 Sept. p. 470 missiles, fundamental project fundamental project fundamental project fundamental project fundamental project fundament
tectonics, non-ferrous ore imineral resources, Amazon, tropical rain forest, developing countries, resource prospecting, economic planning, forest management, electric power, the Amazon frontier ily48 May p 11-14 ocean floor, manganese nodules, mining industry, minerals on the ocean floor ily60 Dec p 64-72 economic development, technology transfer, industrialization, metal consumption natural resources and technological substitution pollution ocean, sea water, wetlands, ocean floor, physical resources of the ocean pollution ocean, sea water, wetlands, ocean floor, physical resources of the ocean prospecting, non-ferrous ore prospecting, flotation, surfactant, bubbles, collector ions ore beneficiation prospecting, microelectronics, microprocessors, silicon 'chips' information, integrated circuits, metal-oxide semiconductors microcomputers, microelectronics, microprocessors, silicon 'chips' information, integrated circuits, metal-oxide semiconductors prospecting, pr	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C.E.P., accuracy as multipher of force 1975 July p. 14–23 missile accuracy, counterforce strategy, atomic weapons, cruise missiles. MIRV, arms race, strategic weapons. C.E.P., accuracy as multipher of force 1975 July p. 14–23 missile policy, arms race, strategic weapons. C.E.P., accuracy as multipher of force 1975 July p. 14–23 missile policy, arms race, atomic test ban, national security, atomic bomb test, multiary technology, fallout shelters 1964 Oct. p. 27–35 [319] missile submarines, arms race, SLBM, MIRV, Polaris, Trident, Poseidon missile 1972 June p. 15–27 [344] arms control, antisubmarine warfare, SALT, mutual assured destruction. SLBM, sonar, acoustic detection 1972 July p. 14–25 [345] missiles, fizzles 1955 Sept. p. 72 mission-oriented funding agencies, fundamental research curiosity, science funding university science. N.S.F., introduction to a single-topic issue on fundamental questions in science 1953 Sept. p. 47–51 N.S.F., science funding, institutional grants, science policy, fundamental research, project grants, university science, problems in government support of science in the U.S. 1965 July p. 19–25 science funding, project funding decried 1952 Dec. p. 38 science funding, mission-oriented research 1953 May p. 53 science funding, mission-oriented research 1958 Feb. p. 40 Mississippi river, meanders, alluvial valley, deltas, floods
tectonics, non-ferrous ore mineral resources, Amazon, tropical rain forest, developing countries, resource prospecting, economic planning, forest management, electric power, the Amazon frontier ocean floor, manganese nodules, mining industry, minerals on the ocean floor 1960 Dec p 64-72 economic development, technology transfer, industrialization, metal consumption natural resources and technological substitution 1963 Sept p 128-136 pollution ocean, sea water, wetlands, ocean floor, physical resources of the ocean 1969 Sept p 166-176 [885] hydrothermal extraction, mineral deposits, plate tectonics, mineral prospecting, non-ferrous ore 1973 July p 86-95 [909] mineral separation, flotation, surfactant, bubbles, collector ions ore beneficiation 1956 Dec p 99-110 minerals, fluid inclusions, geology, Earth history, ancient fluids in crystals 1962 Oct p 38-47 [854] minicomputers, integrated circuits, metal-oxide semiconductors microcomputers, microelectronics, microprocessors, silicon 'chips' computer modeling microelectronics personal computers, FLEX, LOGO SMALLTALK 1977 Sept p 230-244 [384] minimax, games theory, decision theory, pure strategy, mixed strategy, worst-case analysis 1955 Feb p 78-83 mining, oil shales shale rotors, energy resources, fossil fuel, oil from	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C.E.P., accuracy as multipher of force 1975 July p. 14–23 missile accuracy, counterforce strategy, atomic weapons, cruise missiles. MIRV, arms race, strategic weapons. C.E.P., accuracy as multipher of force 1975 July p. 14–23 missile policy, arms race, atomic test ban, national security, atomic bomb test, military technology, fallout shelters 1964 Oct. p. 27–35 [319] missile submarines, arms race, SLBM, MIRV, Polaris, Trident, Poseidon 1972 June p. 15–27 [344] arms control, antisubmarine warfare, SALT, mutual assured destruction, SLBM, sonar, acoustic detection 1972 July p. 14–25 [345] missiles, fizzles 1955 Sept. p. 72 mission-oriented funding agencies, fundamental research curiosity, science funding university science, N.S.F., introduction to a single-topic issue on fundamental questions in science 1953 Sept. p. 47–51 N.S.F., science funding, institutional grants, science policy, fundamental research, project grants, university science, problems in government support of science in the U.S. 1965 July p. 19–25 science funding, independence of scientist 1953 May p. 53 science funding, independence of scientist 1953 May p. 53 science funding, independence of scientist 1953 May p. 53 science funding, mission-oriented research 1951 Apr. p. 18–23 Mississippi river, meanders, alluvial valley, deltas, floods
tectonics, non-ferrous ore mineral resources, Amazon, tropical rain forest, developing countries, resource prospecting, economic planning, forest management, electric power, the Amazon frontier ocean floor ocean floor 1960 Dec p 64-72 economic development, technology transfer, industrialization, metal consumption natural resources and technological substitution 1963 Sept p 128-136 pollution ocean, sea water, wetlands, ocean floor, physical resources of the ocean 1969 Sept p 166-176 [885] hydrothermal extraction, mineral deposits, plate tectonics, mineral prospecting, non-ferrous ore 1973 July p 86-95 [909] mineral separation, flotation, surfactant, bubbles, collector ions ore beneficiation minerals, fluid inclusions, geology, Earth history, ancient fluids in crystals 1962 Oct p 38-47 [854] minicomputers, integrated circuits, metal-oxide semiconductors microcomputers, microelectronics, microprocessors, silicon 'chips' computer modeling microelectronics personal computers, FLEX, LOGO SMALLTALK 1977 Sept p 230-244 [384] minimax, games theory, decision theory, pure strategy, mixed stratgey, worst-case analysis 1955 Feb p 78-83 mining, oil shales shale rotors, energy resources, fossil fuel, oil from shales	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C.E.P., accuracy as multipher of force 1975 July p. 14–23 missile accuracy, counterforce strategy, atomic weapons, cruise missiles. MIRV, arms race, strategic weapons. C.E.P., accuracy as multipher of force 1975 July p. 14–23 missile policy, arms race, atomic test ban, national security, atomic bomb test, military technology, fallout shelters 1964 Oct. p. 27–35 [319] missile submarines, arms race, SLBM, MIRV, Polaris, Trident, Poseidon missile 1972 June p. 15–27 [344] arms control, antisubmarine warfare, SALT, mutual assured destruction, SLBM, sonar, acoustic detection 1972 July p. 14–25 [345] missiles, fizzles 1955 Sept. p. 72 mission-oriented funding agencies, fundamental research curosity, science funding university science, N.S.F., introduction to a single-topic issue on fundamental questions in science 1953 Sept. p. 47–51 N.S.F., science funding, institutional grants, science policy, fundamental research, project grants, university science, problems in government support of science in the U.S. 1965 July p. 19–25 science funding, independence of scientist 1953 May p. 53 science funding, mission-oriented research 1958 Feb. p. 40 Mississippian culture, New World archeology, mound builders agricultural revolution, statistical screation, pro-Columbian.
mineral resources, Amazon, tropical rain forest, developing countries, resource prospecting, economic planning, forest management, electric power, the Amazon frontier 1948 May p 11–14 ocean floor, manganese nodules, mining industry, minerals on the ocean floor 1960 Dec p 64–72 economic development, technology transfer, industrialization, metal consumption natural resources and technological substitution 1963 Sept p 128–136 pollution ocean, sea water, wetlands, ocean floor, physical resources of the ocean 1969 Sept p 166–176 [885] hydrothermal extraction, mineral deposits, plate tectonics, mineral prospecting, non-ferrous ore 1973 July p 86–95 [909] mineral separation, flotation, surfactant, bubbles, collector ions ore beneficiation 1956 Dec p 99–110 minerals, fluid inclusions, geology, Earth history, ancient fluids in crystals 1962 Oct p 38–47 [854] minicomputers, integrated circuits, metal-oxide semiconductors microcomputers, microelectronics, microprocessors, silicon 'chips' computer modeling microelectronics personal computers, FLEX, LOGO SMALLTALK 1977 Sept p 230–244 [384] minimax, games theory, decision theory, pure strategy, mixed strateges, worst-case analysis 1955 Feb p 78–83 mining, oil shales shale rotors, energy resources, fossil fuel, oil from chiles 1952 Feb p 15–19 Earth crust metal ores natural resources natural concentration of metals	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C.E.P., accuracy as multipher of force 1975 July p. 14–23 missile accuracy, counterforce strategy, atomic weapons, cruise missiles. MIRV, arms race, strategic weapons. C.E.P., accuracy as multipher of force 1975 July p. 14–23 missile policy, arms race, atomic test ban, national security, atomic bomb test, military technology, fallout shelters 1964 Oct. p. 27–35 [319] missile submarines, arms race, SLBM, MIRV, Polaris, Trident, Poseidon missile submarines, arms race, SLBM, MIRV, Polaris, Trident, Poseidon missile arms control, antisubmarine warfare, SALT, mutual assured destruction. SLBM, sonar, acoustic detection 1972 July p. 14–25 [345] arms control, antisubmarine warfare, SALT, mutual assured destruction. SLBM, sonar, acoustic detection 1972 July p. 14–25 [345] missiles, fizzles 1955 Sept. p. 72 mission-oriented funding agencies, fundamental research curiosity, science funding university science, N.S.F., introduction to a single-topic issue on fundamental questions in science 1953 Sept. p. 47–51 N.S.F., science funding, institutional grants, science policy, fundamental research, project grants, university science, problems in government support of science in the U.S. 1965 July p. 19–25 science funding, project funding decried 1952 Dec. p. 38 science funding, independence of scientist 1953 May p. 53 science funding, independence of scientist 1953 May p. 53 science funding, mission-oriented research 1958 Feb. p. 40 Mississippi river, meanders, alluvial valley, deltas, floods Mississippia culture, New World archeology, mound builders agricultural revolution statistical scriation pre-Columbian Mississippi valley on verge of urban resolution.
mineral resources, Amazon, tropical rain forest, developing countries, resource prospecting, economic planning, forest management, electric power, the Amazon frontier 1948 May p 11–14 ocean floor, manganese nodules, mining industry, minerals on the ocean floor 1960 Dec p 64–72 economic development, technology transfer, industrialization, metal consumption natural resources and technological substitution 1963 Sept p 128–136 pollution ocean, sea water, wetlands, ocean floor, physical resources of the ocean 1969 Sept p 166–176 [885] hydrothermal extraction, mineral deposits, plate tectonics, mineral prospecting, non-ferrous ore 1973 July p 86–95 [909] mineral separation, flotation, surfactant, bubbles, collector ions ore beneficiation 1956 Dec p 99–110 minerals, fluid inclusions, geology, Earth history, ancient fluids in crystals 1962 Oct p 38–47 [854] minicomputers, integrated circuits, metal-oxide semiconductors microcomputers, microelectronics, microprocessors, silicon 'chips' computer modeling microelectronics personal computers, FLEX, LOGO SMALLTALK 1977 Sept p 230–244 [384] minimax, games theory, decision theory, pure strategy, mixed strateges, worst-case analysis 1955 Feb p 78–83 mining, oil shales shale rotors, energy resources, fossil fuel, oil from chiles 1952 Feb p 15–19 Earth crust metal ores natural resources natural concentration of metals	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C.E.P., accuracy as multipher of force 1975 July p. 14–23 missile accuracy, counterforce strategy, atomic weapons, cruise missiles. MIRV, arms race, strategic weapons. C.E.P., accuracy as multipher of force 1975 July p. 14–23 missile policy, arms race, atomic test ban, national security, atomic bomb test, military technology, fallout shelters 1964 Oct. p. 27–35 [319] missile submarines, arms race, SLBM, MIRV, Polaris, Trident, Poseidon missile 1972 June p. 15–27 [344] arms control, antisubmarine warfare, SALT, mutual assured destruction, SLBM, sonar, acoustic detection 1972 July p. 14–25 [345] missiles, fizzles 1955 Sept. p. 72 mission-oriented funding agencies, fundamental research curiosity, science funding university science, N.S.F., introduction to a single-topic issue on fundamental questions in science 1953 Sept. p. 47–51 N.S.F., science funding, institutional grants, science policy, fundamental research, project grants, university science, problems in government support of science in the U.S. 1965 July p. 19–25 science funding, independence of scientist 1953 May p. 53 science funding, independence of scientist 1953 May p. 53 science funding, mission-oriented research 1955 Peb. p. 40 Mississippi river, meanders, alluvial valley, deltas, floods Mississippian culture, New World archeology, mound builders agricultural revolution statistical scriation pre-Columbian Mississippi valley on verge of urban revolution. 1952 Mar. p. 22–27 Amerindian bunal mounds, Cahokia, New World archeology.
mineral resources, Amazon, tropical rain forest, developing countries, resource prospecting, economic planning, forest management, electric power, the Amazon frontier 1948 May p 11-14 ocean floor, manganese nodules, mining industry, minerals on the ocean floor 1960 Dec p 64-72 economic development, technology transfer, industrialization, metal consumption natural resources and technological substitution 1963 Sept p 128-136 pollution ocean, sea water, wetlands, ocean floor, physical resources of the ocean 1969 Sept p 166-176 [885] hydrothermal extraction, mineral deposits, plate tectonics, mineral prospecting, non-ferrous ore 1973 July p 86-95 [909] mineral separation, flotation, surfactant, bubbles, collector ions ore beneficiation 1956 Dec p 99-110 minerals, fluid inclusions, geology, Earth history, ancient fluids in crystals 1962 Oct p 38-47 [854] minicomputers, integrated circuits, metal-oxide semiconductors microcomputers, microelectronics, microprocessors, silicon 'chips' computer modeling microelectronics personal computers, FLEX, LOGO SMALLTALK 1977 Sept p 230-244 [384] minimax, games theory, decision theory, pure strategy, mixed stratgey, worst-case analysis 1955 Feb p 78-83 mining, oil shales shale rotors, energy resources, fossil fuel, oil from chales 1952 Feb p 15-19 Earth crust metal ores natural resources natural concentration of metals 1950 June p 146-154 gypsum Amerindian New World archeology, prehistoric main in Mammoth cave	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C.E.P., accuracy as multipher of force 1975 July p. 14–23 missile accuracy, counterforce strategy, atomic weapons, cruise missiles. MIRV, arms race, strategic weapons. C.E.P., accuracy as multipher of force 1975 July p. 14–23 missile policy, arms race, atomic test ban, national security, atomic bomb test, mulitary technology, fallout shelters 1964 Oct. p. 27–35 [319] missile submarines, arms race, SLBM, MIRV, Polans, Trident, Poseidon missile 1972 June p. 15–27 [344] arms control, antisubmarine warfare, SALT, mutual assured destruction. SLBM, sonar, acoustic detection 1972 July p. 14–25 [345] missiles, fizzles 1955 Sept. p. 72 mission-oriented funding agencies, fundamental research curiosity, science funding university science, N.S.F., introduction to a single-topic issue on fundamental questions in science 1953 Sept. p. 47–51 N.S.F., science fundamental questions in science 1953 Sept. p. 47–51 N.S.F., science fundamental research, project grants, university science, problems in government support of science in the U.S. 1965 July p. 19–25 science funding, independence of scientist 1953 May p. 53 science funding, mission-oriented research 1952 Dec. p. 38 science funding, mission-oriented research 1953 May p. 53 science funding, mission-oriented research 1951 Apr. p. 18–23 Mississippian culture. New World archeology, mound builders agricultural revolution statistical senation pre-Columbian Mississippi valley on verge of urban revolution 1952 Mar. p. 22–27 Amerindian bunal mounds, Cahokia, New World archeology
mineral resources, Amazon, tropical rain forest, developing countries, resource prospecting, economic planning, forest management, electric power, the Amazon frontier 1948 May p 11-14 ocean floor, manganese nodules, mining industry, minerals on the ocean floor 1960 Dec p 64-72 economic development, technology transfer, industrialization, metal consumption natural resources and technological substitution 1963 Sept p 128-136 pollution ocean, sea water, wetlands, ocean floor, physical resources of the ocean 1969 Sept p 166-176 [885] hydrothermal extraction, mineral deposits, plate tectonics, mineral prospecting, non-ferrous ore 1973 July p 86-95 [909] mineral separation, flotation, surfactant, bubbles, collector ions ore beneficiation 1956 Dec p 99-110 minerals, fluid inclusions, geology, Earth history, ancient fluids in crystals 1962 Oct p 38-47 [854] minicomputers, integrated circuits, metal-oxide semiconductors microcomputers, microelectronics, microprocessors, silicon 'chips' 1975 May p 32-40 computer modeling microelectronics personal computers, FLEX, LOGO SMALLTALK 1977 Sept p 230-244 [384] minimax, games theory, decision theory, pure strategy, mixed stratgey, worst-case analysis 1955 Feb p 78-83 mining, oil shales shale rotors, energy resources, fossil fuel, oil from shales 1952 Feb p 15-19 Earth crust metal ores natural resources natural concentration of metals 1950 June p 146-154 pypsum Amerindian New World archeology, prehistoric main in Mammoth cave 1960 June p 146-154 magnetometer geomagnetism, natural resources, mineral prospecting	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C.E.P., accuracy as multipher of force 1975 July p. 14–23 missile accuracy, counterforce strategy, atomic weapons, cruise missiles. MIRV, arms race, strategic weapons. C.E.P., accuracy as multipher of force 1975 July p. 14–23 missile policy, arms race, atomic test ban, national security, atomic bomb test, military technology, fallout shelters 1964 Oct. p. 27–35 [319] missile submarines, arms race, SLBM, MIRV, Polaris, Trident, Poseidon missile 1972 June p. 15–27 [344] arms control, antisubmarine warfare, SALT, mutual assured destruction. SLBM, sonar, acoustic detection 1972 July p. 14–25 [345] missiles, fizzles 1955 Sept. p. 72 mission-oriented funding agencies, fundamental research curiosity, science funding university science, N.S.F., introduction to a single-topic issue on fundamental questions in science 1953 Sept. p. 47–51 N.S.F., science fundamental research, project grants, university science, problems in government support of science in the U.S. 1965 July p. 19–25 science funding, mission-onented research 1952 Dec. p. 38 science funding, mission-onented research 1953 May p. 53 science funding independence of scientist 1953 May p. 53 science funding mission-onented research 1954 Apr. p. 18–23 Mississippian culture. New World archeology, mound builders agricultural revolution statistical senation pre-Columbian Mississippi valley on verge of urban revolution 1952 Mar. p. 22–27 Amerindian burial mounds, Cahokia, New World archeology 1975 Aug. p. 92–101 [688]
mineral resources, Amazon, tropical rain forest, developing countries, resource prospecting, economic planning, forest management, electric power, the Amazon frontier 1948 May p 11–14 ocean floor 1960 Dec p 64–72 economic development, technology transfer, industrialization, metal consumption natural resources and technological substitution 1963 Sept p 128–136 pollution ocean, sea water, wetlands, ocean floor, physical resources of the ocean sea water, wetlands, ocean floor, physical resources of the ocean sea water, wetlands, ocean floor, physical resources of the ocean 1969 Sept p 166–176 [885] hydrothermal extraction, mineral deposits, plate tectonics, mineral prospecting, non-ferrous ore 1973 July p 86–95 [909] mineral separation, flotation, surfactant, bubbles, collector ions ore beneficiation 1956 Dec p 99–110 minerals, fluid inclusions, geology, Earth history, ancient fluids in crystals 1962 Oct p 38–47 [854] minicomputers, integrated circuits, metal-oxide semiconductors microcomputers, microelectronics, microprocessors, silicon 'chips' computer modeling microelectronics personal computers, FLEX, LOGO SMALLTALK 1977 Sept p 230–244 [384] minimax, games theory, decision theory, pure strategy, mixed stratges, worst-case analysis 1955 Feb p 78–83 mining, oil shales shale rotors, energy resources, fossil fuel, oil from chales 1950 Julis p 150–19 Earth crust metal ores natural resources natural concentration of metals 1960 Julis p 150–140 magnetometer feomagnetism, natural resources, mineral prospecting	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C.E.P., accuracy as multipher of force 1975. July p. 14–23 missile accuracy, counterforce strategy, atomic weapons, cruise missiles. MIRV, arms race, strategic weapons. C.E.P., accuracy as multiplier of force 1975. July p. 14–23 missile policy, arms race, atomic test ban, national security, atomic bomb test, military technology, fallout shelters 1964. Oct. p. 27–35. [319] missile submarines, arms race, SLBM, MIRV, Polaris, Trident, Poseidon missile 1972. June p. 15–27. [344] arms control, antisubmarine warfare, SALT, mutual assured destruction. SLBM, sonar, acoustic detection 1972. July p. 14–25. [345] arms control, antisubmarine warfare, SALT, mutual assured destruction. SLBM, sonar, acoustic detection 1972. July p. 14–25. [345] missiles, fizzles 1955. Sept. p. 72. [345] mission-oriented funding agencies, fundamental research curiosity, science funding university science, N.S.F., introduction to a single-topic issue on fundamental questions in science. 1953. Sept. p. 47–51. N.S.F., science funding, institutional grants, science policy, fundamental research, project grants, university science, problems in government support of science in the U.S. 1965. July p. 19–25. science funding, independence of scientist science, problems in government support of science in the U.S. 1965. July p. 19–25. science funding, independence of scientist 1953. May. p. 53. science funding, mission-oriented research 1958. Feb. p. 40. Mississippian culture. New World archeology, mound builders agricultural revolution statistical scriation pre-Columbian Mississippi vallev on verge of urban revolution. 1952. Mar. p. 92–101. [688]. Mississippian period, coal fossil, flora. Pennsylvanian period. Carboniferous period. tropical flora, deposition of coal.
mineral resources, Amazon, tropical rain forest, developing countries, resource prospecting, economic planning, forest management, electric power, the Amazon frontier 1948 May p 11-14 ocean floor, manganese nodules, mining industry, minerals on the ocean floor 1960 Dec p 64-72 economic development, technology transfer, industrialization, metal consumption natural resources and technological substitution 1963 Sept p 128-136 pollution ocean, sea water, wetlands, ocean floor, physical resources of the ocean 1969 Sept p 166-176 [885] hydrothermal extraction, mineral deposits, plate tectonics, mineral prospecting, non-ferrous ore 1973 July p 86-95 [909] mineral separation, flotation, surfactant, bubbles, collector ions ore beneficiation 1956 Dec p 99-110 minerals, fluid inclusions, geology, Earth history, ancient fluids in crystals 1962 Oct p 38-47 [854] minicomputers, integrated circuits, metal-oxide semiconductors microcomputers, microelectronics, microprocessors, silicon 'chips' 1975 May p 32-40 computer modeling microelectronics personal computers, FLEX, LOGO SMALLTALK 1977 Sept p 230-244 [384] minimax, games theory, decision theory, pure strategy, mixed stratgey, worst-case analysis 1955 Feb p 78-83 mining, oil shales shale rotors, energy resources, fossil fuel, oil from shales 1952 Feb p 15-19 Earth crust metal ores natural resources natural concentration of metals 1950 June p 146-154 pypsum Amerindian New World archeology, prehistoric main in Mammoth cave 1960 June p 146-154 magnetometer geomagnetism, natural resources, mineral prospecting	counterforce strategy, atomic weapons cruise missiles, arms race, missile accuracy, strategic weapons, C.E.P., accuracy as multipher of force 1975 July p. 14–23 missile accuracy, counterforce strategy, atomic weapons, cruise missiles. MIRV, arms race, strategic weapons. C.E.P., accuracy as multipher of force 1975 July p. 14–23 missile policy, arms race, atomic test ban, national security, atomic bomb test, military technology, fallout shelters 1964 Oct. p. 27–35 [319] missile submarines, arms race, SLBM, MIRV, Polaris, Trident, Poseidon missile 1972 June p. 15–27 [344] arms control, antisubmarine warfare, SALT, mutual assured destruction. SLBM, sonar, acoustic detection 1972 July p. 14–25 [345] missiles, fizzles 1955 Sept. p. 72 mission-oriented funding agencies, fundamental research curiosity, science funding university science, N.S.F., introduction to a single-topic issue on fundamental questions in science 1953 Sept. p. 47–51 N.S.F., science fundamental research, project grants, university science, problems in government support of science in the U.S. 1965 July p. 19–25 science funding, mission-onented research 1952 Dec. p. 38 science funding, mission-onented research 1953 May p. 53 science funding independence of scientist 1953 May p. 53 science funding mission-onented research 1954 Apr. p. 18–23 Mississippian culture. New World archeology, mound builders agricultural revolution statistical senation pre-Columbian Mississippi valley on verge of urban revolution 1952 Mar. p. 22–27 Amerindian burial mounds, Cahokia, New World archeology 1975 Aug. p. 92–101 [688]

microtubules, calcium-ion activator, cell motility, cell shape, embryonic	Miescher, leukocyte, nucleus, DNA
development, microfilaments 1971 Oct p 76-82 [1233]	hereditary material, discover
ATP, avoneme, cell motility, cilia, flagella, how cilia move,	migraine headaches, fortification illusions, neurophysiology, optical
paramecium, sperm 1974 Oct p 44-52 [1304]	illusion 1971 May p 88-96 [536]
in mitosis 1974 July p 48	migration, see. bird migration, human migration, animal migration
as cytoskeleton 1978 Jan p 68	species dispersion and the like
microvascular surgery, surgery, cerebral vascular accident,	Milankovitch forecast, glaciation, orbital motion, Earth, eccentricities of
atherosclerosis, cerebral hemorrhage, repair and prevention of stroke	motion, correlating glacial and sidereal time tables 1948 Oct p 40-4)
by microvascular bypass operation 1978 Apr p 58-67 [1385]	milden, antibiotics, plant disease, rot, blight, smut, wilt disease, mol
microwave amplification, maser, stimulated emission, quantum	midew, antibiotics, plant disease, for, bught, sinut, wit disease, many 1955 June p 82-91
mechanics, coherent radiation, principles and uses of maser 1958 Dec p 42-50 [215]	milieu therapy, asocial behavior, behavioral psychology, criminal law,
microwave amplification by stimulated emission of radiation, see maser	human hehavior nunishment, crimitiology, behavioral science and
microwave diodes, electromagnetic spectrum, irradiation standards,	the criminal law 1963 Nov p 39-45 [480]
microwave radiation, risk estimation, technology assessment	military deterrence, counterforce strategy, arms control, arms race,
1972 Feb p 13-21	atomic warmans, 11 C A. 11 C C.D. negotiating possilics
microwave emission, electric current, Josephson effects,	1962 Apr p 43-33
superconductivity, tunnel junction, quantum mechanics,	military expenditures, input-output analysis, economics, arms control
confirmation and applications of Josephson effects	impact of disarmament on U.S. economy 1201 OPI P " " "
1966 May p 30–39	arms production, arms trade, arms race, economic development, the
electric field, Gunn effect, negative resistance, solid state physics,	and the state of aid 'rich' nations, poor
electronics, gallium arsenide, solid state microwave generation	economic development, cold war, politics of aid, rich nations, 'poor 1972 Apr p 15-21
1966 Aug p 22–31	rations and an analysis of the state of the
microwave oscillators, electrically tunable 1954 Oct p 52	
microwave radiation, crystal structure, magnetism, ferrites, materials	ALL ambien
technology, computer memory, industrial applications of iron oxides 1960 June p 92-104	mutual assured destruction, counterforce strategy, 1974 May p 20-31 MIRV, MARV 1975 Apr p 53
electromagnetic spectrum, irradiation standards, microwave diodes,	miniary budget for fiscal 1970
risk estimation, technology assessment 1972 Feb p 13-21	compared to social expenditures 1770 May n 52
microwave relays, communication terminals, computer technology,	as percent of Char Wolldwide
communication technology, communication, transmitters, receivers	mintary history, Carthaghnan fortiess, ball and work
1972 Sept p 130–140	military history, Carthaginian fortress, Saturna military medicine, medicine, science history, Pare, surgery, life and work military medicine, medicine, science history, Pare, surgery, life and work military history, Pare
microwave spectroscopy, optical pumping, spectroscopy, photon,	of Ambioise 1 are
quantum jumps, technique and uses of optical pumping	
1960 Oct p 72–80	investigation. Condon case, content analysis and rate a 18-21
microwave transmission, communication technology, radio, ionosphere,	of political attacks on E U Condon
troposphere, tonospheric and tropospheric scattering 1957 Jan p 46-51	of political attacks on E. C. Condon A. E. C., atomic weapons, nuclear power, science funding, university 1949 July p. 30-43
microwaves, radar, spectroscopy, molecular bonds, coherent radiation,	research the second international
recognice absorption, energy levels, quantum jumps, quantum	Atomic Energy Act, patent law, power, licensing, international cooperation, inernational cooperation, major provisions of Atomic 1954 Nov p 31-35
electrodynamics, time-keening, foundation of maser, laser	cooperation, inernational cooperation, major provisions of 31-35
technology 1948 Sept p 10-23	Energy Act of 1994
control properties Maxwell's equations, traveling-wave tube, klystron,	hydrogen bomb, censorship of Bethe article in Scientific 1950 May p 2t AMERICAN 1950 July p 26
magnetron, waveguides, communication, radar 1952 Aug p 43-51	declassification drive in A E C 1951 Jan p 21
radar, klystron, particle accelerator 1954 Mar p 84-90	reactors declassified
klystron, molecular rotation, spectroscopy, laboratory applications of hystron and 1957 May p 46-53	reactors declassified atomic bomb, 'secret' disclosed at Rosenberg-Sobell trial 1951 May p 31
and a strong system interstellar hydrogen, radio astronomy, hydrogen in	1053 Apr D 40
relevan correlated with their stricture 1909 June p	COSMIC IOD SECIEL 1055 Mar V 21
a come budgayul radical galaxy radio-ansorption, gas clouds	voluntary censorship revived 1955 June p 48 censorship of 'unclassified' material 1955 Nov p 52
1900 Suly P 20	Muller censored 1058 July p 40
Doppler effect, planetary motion, radar astronomy, delay-Doppler, 1968 July p 28-37	attacked as hampering to research 1060 May p 30
	US Navy declassifies soundings
mapping, Mercury, Venus interstellar matter, maser, hydroxyl radical, infrared astronomy, energy 1968 Dec p 36-44	U.S. Navy declassifies soundings classified research, controversy engages trustees, faculty, students 1973 Jan p 44
levels, protostats, interferoment	classified research, laser-induced fusion 1973 Feb p 46
microwear analysis, film tools, raieofffine arottogy p 108-126 [700]	titian stratom games theory, numan commet, probability 108-118
mid-Atlantic rift, remanent magnetism, pillow lava, ocean ridges, sea-floor	came lise and misuse of barrier and agreement alloming
mid-Atlantic rift, remanent magnetism, photo and 1975 Aug p 79–90 [918] spreading, submersible research craft 1975 Aug p 79–90 [918]	military technology, arms face, atomic test ban, matter 1964 Oct p 27-35 [319]
mid-acean ridge, gravity, ocean Hoor, oceanography, the Governor and 110	homb lest, linssie poncy, randard manage
discovery of submarine filed large dives magnetic bands, the deep-	milk, duck-billed platypus, lactogenesis, isotope tracing manna 1957 Oct p 121-128
ocean floor, sea-floor spreading, lava, dikes, magnetic process [883]	synthesis of milk lactogenesis, mammary gland, casein, hormonal action cell secretion lactogenesis action cell secretion lactogenesis action lactogenesis action cell secretion cell secretion cell secretion lactogenesis action cell secretion lactogenesis action cell secretion lactogenesis action cell secretion lactogenesis action cell secretion cell secretion cell secretion lactogenesis action cell secretion cell secretion cell secretion cell secretion cell sec
ocean nooi	composition and synthesis of the state of th
plate tectonics, sea-floor spreading, include, so ocean floor manganese nodules, origin of metal deposits on ocean floor 1978 Feb p 54-61 [929]	milk sugar, enzyme deliciency, generic discuss, 70-78 [1239]
manganese nodules, origin of metal deposits of ectal [929]	digestion problem
Middle America, Amerindian prehistory, Teotihuacan, Mexico, New 38-48	milkweed, predation, plant toxins, food chain, buc-ja; predation relationship, mimicry, ecology, chemical defense against predation [969 Feb p 22-29 [1133]
World archeology, pre-continuous development, population	relationship, minuty, coolegy, 1960 Feb n 22-29 (113)
middle classes, distribution of weather the demographic	Milky Way, nebulae, globular cluster stars, spiral arms, dust clouds Milky Way, nebulae, globular cluster stars, spiral arms, dust clouds 1950 Feb p 30 39
orowth, production statistics, and 1976 lift b 20-33	goldelic celler, seeing " b" "
transition Middle East oil, petroleum resources, energy economics, Persian Gulf Middle East oil, petroleum resources, renergy economics, Persian Gulf	cosmic radiation, massive material research, where do
fields, economic development in 1938 Sept p	particle acceleration, superior 1953 Sept p (4-70 [259]
t - Francoaghe disease.	supergalaxy, local clusters galactic clusters [1954 July p 30-35]
midgets, ateliosis, pituitary insufficiency, dwarfism, genetic disease, congenital anomalies consanguinity, growth hormone deficiency.	Ministration A.
congenital anomalies consanguinity, growth holinoid panhypopituitarism, General Tom Thumb 1967 July p 102-110	
pannypopulations	•

spiral galaxies, interstellar hydrogen, radio astronom) 055 M 42 48	excavating machines, tunneling, rock borers, earth-	moving, surface 1967 Nov p 74-85
Gum Nebula, 1011zed-hydrogen cloud, Strömgren spl	955 May p 42–48 nere	mining iron ore, ore beneficiation, low-grade ores, hematite	e, taconite
galaxy structure, interstellar matter, stellar formation	971 Dec p 20-29	mining industry, ocean floor, mineral resources, mang	1968 Jan p 28–35 ganese nodules,
galactic dust clouds, nebulae, Gum Nebula, Bok gl	obules	minerals on the ocean floor	1960 Dec p 64-72
1	972 Aug p 48-61	Minoan civilization, Mycenaean civilization, Hebrew	n and a Grad
galactic center, quasars, radio source, Sagittarius A,	Seyfert galaxies,	A script, Linear B script, Crete, Semites, commo	965 Feb p 102–111
Spiral Balances	1974 Apr p 66–77	and Hebrew civilizations Minoan culture, texts deciphered	1962 May p 82
size of galaxy	1957 July p 65 1958 Jan p 46	Minoan language, Linear B script, Homer, Greek civi	
gravitational attraction of extragalatic neighbors	1960 June p 84	an account of the decipherment	1954 May p 70-75
galactic rotation Milky Way galaxy, reclassified as Sc spiral	1965 Apr p 64	Minturna, Classical archeology, city as quarry, slow of	leath of a city
Miller-Urey experiment, origins of life, high-energy rac			1954 July p 66–70
heterotrophs, fermentation, photosynthesis, autoti	ophs	Miocene desiccation, evaporite minerals, fossil record	
1954	Aug p 44-53 [47]	Challenger findings, salt, Mediterranean as deser	
Milorganite, vitamins, from Milwaukee sewage	1952 Apr p 40	Miocene fossils, hominid, human evolution, primate	2 Dec p 26-36 [904]
mimicry, birds, camouflage, caterpillars, behavioral ad-	1957 Oct p 48–54		May p 28-35 [695]
by color alkaloids, butterfly, larvae, symbiosis, insect repellar		mirages, atmospheric optics, optical illusion, refraction	on, Fata Morgana,
adaptation, plant evolution, butterfly-plant associ	ation	walking on water	1976 Jan p 102-111
1967 Jun	ер 104-113 [1076]	mirror images, parity, symmetry, time reversal, CPT i	mirror
predation, plant toxins, food chain, milkweed, blue j		1965	Dec p 28-36 [301]
relationship, ecology, chemical defense against pr		bilateral symmetry, left-right asymmetry, central n	ervous system Mar p 96–104 [535]
birds, finches, parasitism, sexual behavior, widow bi	eb p 22–29 [1133]	MIRV: multiple independently-targetable reentry vel	
behavior	1974 Oct p 92–98	MIRV, ABM, SALT, deterrence. ICBM, arms race, c	
Minamata disease, mercury cycle, mercury poisoning,	•		Apr p 15-25 [642]
1971 N	/lay p 15-21 [1221]	ABM, arms race, ICBM, SLBM, mutual assured de	_
mine drainage, steam engine, technology history, Watt	, pumps, Industrial	counterforce strategy, strategic balance, national	
Revolution, Newcomen engine, origins of steam e	ngine	atomic weapons, arms race, SALT, counterforce st	Aug p 17–29 [330]
mineral age, fission-track dating, geochronology, glass	1964 Jan p 98–107	assured destruction, MIRV, as key to SALT neg	
pottery age, radioactive decay, uranium fission	age, meteorite ag-,	· · · · · · · · · · · · · · · · · · ·	0 Jan p 19–29 [654]
19	76 Dec p 114-122	ABM systems, arms race, ICBM, atomic weapons,	
mineral cycles, ATP, biosphere, phosphorus cycle, sul		ban, strategic weapons, prospects for freeze on n	
bacteria, carboxylation cycle, eutrophication, mir		qualitative improvement of weapons	1971 Jan p 15–25
biosphere 1970 Sep mineral deposits, hydrothermal extraction, mineral res	t p 148–158 [1195]	arms race, missile submannes, SLBM, Polaris, Tric missile 1972	2 June p 15–27 [344]
tectonics, mineral prospecting, non-ferrous ore	sources, plate	ABM, ICBM, atomic armaments, counterforce stra	
	July p 86-95 [909]	weapons, mutual assured destruction, arms race	
mineral prospecting, magnetometer, geomagnetism, na		mutual assured destruction, counterforce strategy,	
	961 June p 151–162	expenditures, SALT, arms race, MARV	1974 May p 20-31
hydrothermal extraction, mineral deposits, mineral tectonics, non-ferrous ore 1973	resources, plate 3 July p 86–95 [909]	counterforce strategy, atomic weapons, cruise miss missile accuracy, strategic weapons, C E P, accu	lies, arms race,
mineral resources, Amazon, tropical rain forest, devel		force	1975 July p 14–23
resource prospecting, economic planning, forest		missile accuracy, counterforce strategy, atomic weapon	ons, cruise missiles,
electric power, the Amazon frontier	1948 May p 11-14	MIRV, arms race, strategic weapons, CEP, acc	curacy as multiplier
ocean floor, manganese nodules, mining industry, i	ninerals on the	of force	1975 July p 14–23
ocean floor economic development, technology transfer, indust	1960 Dec p 64–72	missile policy, arms race, atomic test ban, national set test, military technology, fallout shelters 1964	curity, atomic bomb 4 Oct p 27–35 [319]
consumption, natural resources and technologic		missile submarines, arms race, SLBM, MIRV, Polaris	Trident Poseidon
	963 Sept p 128-136	missile 1972	2 June p 15-27 [344]
pollution ocean, sea water, wetlands, ocean floor,		arms control, antisubmarine warfare, SALT, mutus	al assured
the ocean 1969 S hydrothermal extraction, mineral deposits, plate to	ept p 166–176 [885]	destruction, SLBM, sonar, acoustic detection	3.7.1
prospecting, non-ferrous ore 197	3 July p 86–95 [909]	missiles, fizzles	2 July p 14-25 [345]
mineral separation, flotation, surfactant, bubbles col	lector ions ore	'mission-oriented' funding agencies, fundamental rese	1955 Sept p 72
beneficiation	1956 Dec p 99-110	science funding, university science, NSF, intro-	duction to a single-
minerals, fluid inclusions, geology, Earth history, and		topic issue on fundamental questions in science	1953 Sept p 47-51
minicomputers, integrated circuits, metal-oxide semi	2 Oct p 38-47 [854]	N S F, science funding, institutional grants, science fundamental research, project grants, university	e policy.
microcomputers, microelectronics, microprocess	sors, silicon 'chips'	government support of science in the US	1965 July p 19–25
	1975 May n 32-40	science funding, project funding decried	1952 Dec p 38
computer modeling, microelectronics, personal co LOGO SMALLTALK 1977 S		science funding, independence of scientist	1953 May p 53
minimax, games theory, decision theory, pure strateg	Sept p 230–244 [384]	science funding, mission-oriented research	1958 Feb 5 40
worst-case analysis	1055 Eab n 78_83	Mississippi river, meanders alluvial valley, deltas, flo	
mining, oil shales, shale rotors energy resources for	sil fuel oil from	Mississippian culture, New World archeology, mound	- 1951 Apr p 18 <u>-23</u> I builders
shales Latth crust metal ores natural resources natural	1052 Feb = 15-10	agricultural revolution, statistical seriation, pre-(Columbian
metals	1060 1 146 154	Mississippi valley on verge of urban revolution	1052 Mar - 22 27
gyptum Amerindian New World archeology, pre	historic man in	Amerindian burial mounds Canokia, New World	archeology
M unmoth Cive	10(0 1.3, - 120 140	remain period, coal, lossil, liora, Pennsylvaniar	Aug. p. 92-101 [688]
magnetometer, geomagnetism, natural resources aerial prospecting	mineral prospecting.	Carboniferous period, tropical flora, deposition	of conf
	1961 June p 151-162	•	1948 July p 46-51

nitochondria, cell organelle, metabolism, enzymes, cell metabolism, cell	mode, statistics, median, sampling, sequential sampling
membrane, 'powerhouse of the cell' 1957 July p 131–140 [36]	1952 Jan p 60-63
cell membrane, electron microscopy, endoplasmic reticulum, myelin	'model atom', positronium, positron, electron, quantum electrodynamics 1954 Dec p 88-92
sheath, nuclear membrane, electron microscope study of membranes in cell 1962 Apr p 64-72 [151]	atomic nucleus, nuclear structure, neutron cross sections, 'cloud's
in cell 1962 Apr p 64-72 [151] ATP synthesis, electron transfer, oxidation membrane, mitochondrion,	crystal ball' 1955 Dec p 8491
proposed structure of mitochondrion 1964 Jan p 63-74	modified virus, bacteriophage, virology, recombinant DNA, provings
cytoplasmic inheritance, maternal inheritance, extranuclear DNA,	1955 Apr p 92-98 [24]
chloroplast, Chlamydomonas 1965 Jan p 70-79 [1002]	modular design, automatic manufacture, electronic equipment, Project
chloroplast, symbiosis, cell organelle, DNA, prokaryote origin, protein	Tinkertov 1955 Aug. p. 29–33
synthesis, plastids, cell evolution, extra-nuclear genetic activity in	modulators, communication technology, laser, pulse-code modulation,
cell 1970 Nov p 22–29 [1203]	electron optics, Kerr effect, Pockel's effect, polarization, modulation of laser light 1968 June p 17-23
cell evolution, cell organelle, chloroplast, endosymbiosis, eukaryotic	
cells, symbiosis, prokaryotic cells, algae, cilia, flagella, plastids	Mogollon culture, New World archeology, Pine Lawn Valley, Cochise culture, 2500 B C to 1300 A D in New Mexico 1951 July p 46-51
1971 Aug p 48–57 [1230]	Mohenjo-Daro, Harappan civilization, Indus valley, archeology, Sumer
plastids, extranuclear heredity 1964 Nov p 58	[373 tot 6 at a
catenate DNA 1968 Jan p 46	archaelone Maranaga qualization. Indus valley, floods as cause of
nitochondrion, ATP, curre-acid cycle, cell metabolism, mitochondrion as	demise 1900 May y
site of biological oxidation 1958 July p 56-62 cytology, energy transformation, ATP, citric-acid cycle, glycolysis,	Makete Beeck and Makeronge descentingly Farth manile
oxidative phosphorylation, membrane, energy transformation in the	41111111111
cell 1960 May p 102-114	drilling to Earth's mantle drilling to Earth's mantle 1958 Dec p 56 1959 June p 78
ATP, chloroplast, photosynthesis, cell metabolism, glucogenesis, citric-	drilling to Earth's mantle 1959 Aug p 66
acid cycle, glycolysis, oxidative phosphorylation, cytology, cellular	Cartii S manue
transformation of energy 1961 Sept p 62-73 [91]	practice notes diffied 1963 Oct p 50
ATP synthesis, mitochondria, electron transfer, oxidation membrane,	Opper Manne Project 1966 July p 48
proposed structure of mitochondrion 1964 Jan p 63~/4	Diogram in donor
ATP, glycolysis, cell membrane, enzymes, oxidative phosphorylation,	Monote project, mantie-diffing site selected
cell metabolism, mitochondrial membrane	
1968 Feb p 32–39 [1101]	
ATP, oxidative phosphorylation, cell membrane, active transport,	Earth mantle, plastic zone, seismology, isostatic equinormal plastic zone at depth between 37 and 155 miles 1959 Oct p 81
chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104-123 [1383]	
mitosis, mitotic apparatus, cytology, chromosome, meiosis, mechanism of	Mohs scale, corundum, crystal structure, cubic boron mitter, cubic
cell division 1961 Sept p 100–120 [93]	nardness, materials technology
Down's syndrome, chromosomal anomalies, Klinefelter's syndrome,	hardness, materials technology Moiré patterns, Fresnel rings, optics without lens, properties and uses 1963 May p 54-63 [299]
tersomy 21 genetic defect, meiosis, gene translocation,	dentation ground squirrels, animal behavior
nondequection, afflictions associated with abnormal chromosome	Mojave desert, behavioral adaptation, general adaptation, desert kidney function, thermoregulation, desert adaptation, desert 1961 Nov p 107-116
1961 1404 h 00~10 (120)	Lidney function, thermoregulation, desert adaptation, desert and arranged from 107-116 mammals' adaptations to heat and arranged arranged desease, milder
tissue culture, meiosis, plant cell differentiation, clone, generation of	maintais adaptations in the dispass million
whole organism from tissue cell (carrol) 1903 Oct P 1971 120	mold, antibiotics, plant disease, rot, blight, smut, witt disease, que p 82-91
embryonic development, oocytogenesis, meiosis, mammanan eggs,	molecular attraction, adhesive, surface tension, elastic energy, epoxy
chromosomal anomalies, ovum, in vitro fertilization 1966 Aug p 72-81 [1047]	resins, molecular repulsion, incroncedants 1967 Apr p 114-120
aging, fibroblasts, cell culture, somatic cells, cell, DNA replication,	and a greet mind
	molecular beam, aerodynamics, supersonic flight, snock waves ward tunnel, ultra-high altitude aerodynamics 1958 Ian p 36-42 tunnel, ultra-high altitude aerodynamics
experiments in aging development, meiosis, blastocyst,	funnel, unitament attitude of the coherent
	electron theory, resonance absorption, atomic radiation, estern Gerlach radiation, gas molecules, nuclear magnetic resonance, Stern Gerlach 1965 May p 58-74
mitotic spindle, cell reproduction, cell memorane, chromosome	experiment the experiment of t
replication, cell life cycle 1974 Jan p 54–64 [1288]	experiment chemical accelerators, ion beam sputtering high energy chemistry 1968 Oct p 44-52
mitotic apparatus, cytology, chromosome, metosis, metosis, m. 100–120 [93]	
cell division cell motility, wound healing, cell tracks, embryonic development,	molecular biology, isotopes, radioautography, cytology, use of 1949 Feb p 30-41
tubulin, cell motion made visible to naked eye	radioisotopes in biological research collaboration, antigen-antibody
	reaction, collaboration of G Beadle and L Pauling 1949 May p 16-21
mitotic spindle, calcium, bone, muscle fiber, calcium and life 1951 June p 60-63	1949 May 1
mitotic spindle, calcium, bone, muscle fiber, early 1951 June p 60–63	blood clotting hemagglutination, fibrinogen thrombin, fibrin role of
sea urching egg, chromosome, digitonin, centrioles 1953 Aug p 53-63	thrombin in converting fibrinogen into fibrin 1962 Mar p bo to thrombin in converting fibrinogen into fibrin 1962 Mar p bo to amino acids, DNA, protein synthesis genetic code, mutation triplets amino acids, DNA, protein synthesis genetic code, mutation triplets
mitosis, cell reproduction, cell memoration, 1974 Jan p 54-64 [1288]	amino acids, DNA, protein synthesis general amino acids, DNA, protein synthesis RNA, anticodon ribosomes triplets, wobble hypothesis 1966 Oct p 55-62 [1052]
life cycle 1952 Dec p 32	RNA, anticodon ribosomes implets, wobble hypothesis 1966 Oct p 55-62 [1052]
isolated intact mixed strategy, games theory, decision theory, minimax, pure strategy, 1955 Feb p 78-83	molecular bonds, radar, microwaves, spectroscopy, coherent radiation
mixed strategy, games theory, decision theory, hammand 1955 Feb p 78–83	resonance absorption, energy to the larger laser
worst-case analysis M'Naghten rule, criminal law, expert witnesses insanity defense, Durham M'Naghten rule, criminal law, expert witnesses insanity defense, Durham 1974 June p 18–23	electrodynamics, time-keeping to an 1948 Sept p 10-23
rule, psychiatrists as witnesses rule, psychiatrists as witnesses mnemonics, Koenigsberg bridges, mathematics, salesman's route, delight mnemonics, Koenigsberg bridges, mathematics, 1961 May p 148-158	technology technology to the differential tonic bonds
mamonics. Koenigsberg bridges, mathematics, 1961 May p. 148-158	solid state physics, crystal structure, X-ray diffraction of solids covalent bonds metallic bonds energy levels the nature of solids 1952 Dec p 39-49 [249]
and depth in mathematical view bottle, irelan know	covalent bonds metallic bonds energy levels die metallic bonds 1952 Dec p 39-49 [249]
Mobius band, topology, inner-tube everteen three-cottages	infrared spectroscopy chemical analysis molecular vibrations 1953 Oct p 42-48 [257]
V conjugation () (1050 100 100 100 100 100 100 100 100 100	mulation plasmids, recombinant DNA
problem Mossbauer effect, relativity theory, atomic clock, resonance absorption. Mossbauer effect, relativity theory, atomic clock atomic clock 72-80 (271)	molecular cloning, gene manipulation plasmids, recombinant DNA Asilomar conference hazard evaluation 1975 July p 24-33 [1324] Asilomar conference hazard evaluation 1975 July p 24-33 [1324]
	Asilomar conference transfer Coulomb technology history
anicleus chemical bond energy levels	Alaba Chillian Color Col
Mossbauer spectroscopy, atomic nucleus chemical bond energy levels 1971 Oct p 86-95	molecular evolution, evolution included a managed substitution
gamma radiation molecular structure gamma radiation molecular structure moas, extinction evolution hunting New Zealand flightless birds 1954 Feb p 84-90	evolutionary distance measured by animal 1975 May p 110 118 [1012]
moas, extinction evolution many 1934 rea p by	

molecular modeling, mathematical model, computer modeling, giant	
more data to the boundary DNA	ultracentrifuge, angular momentum, ultra-high speed rotation, magnetic flotation, 90 million r p s 1961 Apr p 134-147
molecules, cytochrome helix, myoglobin, hemoglobin, DNA 1966 June p 42-52 [1043]	mollusk shells, amino acids, fossil, bone, paleontology, paleobiochemistry
molecular motion, crystal structure, computer modeling, particle motion	1956 July p 83–92 [101]
key to bulk properties of materials 1959 Oct p 113–126 [265]	genetic variation, gene mutation, natural selection, polymorphism.
Kerr gate, laser mode-locking, quantum mechanics, Raman clock,	biological diversity, discontinuous variation
ultrafast phenomena, picosecond molecular processes	1975 Aug p 50-60 [1326]
1973 June p 42–60	mollusks, animal behavior, central nervous system, neurophysiology
molecular orbitals, carbenes, carbon chemistry, chemical reaction,	1971 Feb p 68–75 [1212]
reactive intermediates 1976 Feb p 101–113	bivalves, clams, marine life, symbiosis 1975 Apr p 96–105
molecular orbits, molecular structure, electron shells, computer modeling,	momentum, matter, energy, high-energy physics, conservation law, conservation laws in particle physics 1963 Oct p 36-45
quantum chemistry, computer graphics 1970 Apr p 54-70	conservation laws in particle physics 1963 Oct p 36-45 monarchy, Kuanyama Ambo, anthropology, social controls, murder
molecular physics, electromagnetism, intermolecular force, Coulomb	1950 Oct p 52–55
force, measurement of intermolecular force between macroscopic bodies 1960 July p 47-53	money, commerce, bride price, cultural anthropology, red-feather money,
molecular replication, self-reproducing machine, automata theory,	Southwest Pacific-Solomon Islands culture 1962 Mar p 94-104
computer technology, machine models of molecular assembly	Mongol conquests, cavalry, war, Chingis Khan, frontier history, nomatic
1959 June p 105–114 [74]	civilization, Chingis Khan, biography 1963 Aug. p 54-68
molecular repulsion, adhesive, molecular attraction, surface tension,	mongolism, see Down's syndrome
elastic energy, epoxy resins, micromechanics of adhesion	monkey, primate behavior, Japanese macaques, primate societies,
1962 Apr p 114–126	protocultural behavior, social status 1976 Oct p 96–106 [1345] sex pheromone 1971 Sept p 76
molecular rotation, klystron, microwaves, spectroscopy, laboratory applications of microwaves 1957 May p 46-53	sex pheromone 1971 Sept p 76 monkey brain, holography, memory, learning, brain function, interference
applications of microwaves 1957 May p 46-53 molecular science, polymers, addition polymers, condensation polymers,	patterns, holographic model, neurophysiology of remembering
introduction to single-topic issue on 'giant molecules'	1969 Jan p 73–86 [520]
1957 Sept p 80-89	monochromator, fission reactor, neutron beam, neutron diffraction,
polymers, addition polymers, condensation polymers, introduction to	neutron flux, reactor as research instrument
single-topic issue on 'giant molecules' 1957 Nov p 80–89	1953 Aug. p 23–29 [219]
molecular sieves, zeolites, ion exchange, adsorption, separation of similar	monomolecular films, molecular structure, properties and uses of
molecules 1959 Jan p 85-94 molecular signals, cell membrane, intercellular communication, salivary	monomolecular films 1961 Mar p 152–164 thin-film optical devices, interferometry, fluorescence, wave motion,
gland, epithelium, membrane permeability, junctions in cell	light waves, fatty acids 1970 Mar p 108–119
membrane 1970 May p 78-86 [1178]	crystal surfaces, molecular surface films, two-dimensional crystals
molecular size, light scattering, photometry, aerosol, hydrosol, Tyndall	1973 May p 30-40
spectra, measurement 1953 Feb p 69-76	monosaccharides, cellulose, cell wall, plant cell, polysaccharides
molecular spectra, astrochemistry, interstellar matter, space exploration,	1975 Apr p 80–95 [1320]
local galaxy 1973 Mar p 50–69	monsoons, economic development, irrigation, Mekong river, floods,
molecular structure, chemistry, chemical bond, crystal structure, protein structure, chemical kinetics, science, chemistry 1900-1950	hydro-engineering, rice, Mekong river plan, United Nations 1963 Apr p 49-59
1950 Sept p 32–35	'green revolution', India, food and agriculture, technology transfer,
polymers, elastomers, X-ray diffraction, mechanical properties of giant	irrigation, fertilizers, rice, agronomy, wheat, hybrid crop plants
molecules 1957 Sept p 120-134	1976 Sept p 154–163
magnetic resonance, nuclear magnetic resonance, spectroscopy,	monsters, Homo monstrosus, manlike creatures, mythology
	1000.0
magnetometer, large molecule spectroscopy	1968 Oct p 112–118
magnetometer, large molecule spectroscopy 1958 Aug p 58-66 [233]	Monte Carlo fallacy, psychology, probability, decision making, subjective
magnetometer, large molecule spectroscopy	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128–138 [427]
magnetometer, large molecule spectroscopy 1958 Aug p 58-66 [233] monomolecular films, properties and uses of monomolecular films 1961 Mar p 152-164 catenane, chemical topology, topological isomer, cyclic molecules, ring	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128-138 [427] Monte Carlo method, Buffon needle problem, random numbers,
magnetometer, large molecule spectroscopy 1958 Aug p 58-66 [233] monomolecular films, properties and uses of monomolecular films 1961 Mar p 152-164 catenane, chemical topology, topological isomer, cyclic molecules, ring molecules, linking and knotting of ring molecules	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128–138 [427] Monte Carlo method, Buffon needle problem, random numbers, probability, mathematics 1955 May p 90–96
magnetometer, large molecule spectroscopy 1958 Aug p 58-66 [233] monomolecular films, properties and uses of monomolecular films 1961 Mar p 152-164 catenane, chemical topology, topological isomer, cyclic molecules, ring molecules, linking and knotting of ring molecules 1962 Nov p 94-102 [286]	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128–138 [427] Monte Carlo method, Buffon needle problem, random numbers, probability, mathematics 1955 May p 90–96 galactic clusters, probability, universe, gravitation, cosmology.
magnetometer, large molecule spectroscopy 1958 Aug p 58-66 [233] monomolecular films, properties and uses of monomolecular films 1961 Mar p 152-164 catenane, chemical topology, topological isomer, cyclic molecules, ring molecules, linking and knotting of ring molecules 1962 Nov p 94-102 [286] electron shells, computer modeling, quantum chemistry, molecular	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128-138 [427] Monte Carlo method, Buffon needle problem, random numbers, probability, mathematics 1955 May p 90-96 galactic clusters, probability, universe, gravitation, cosmology, distribution of galaxies as test of cosmologies 1956 Sept p 187-200
magnetometer, large molecule spectroscopy 1958 Aug p 58-66 [233] monomolecular films, properties and uses of monomolecular films 1961 Mar p 152-164 catenane, chemical topology, topological isomer, cyclic molecules, ring molecules, linking and knotting of ring molecules 1962 Nov p 94-102 [286]	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128–138 [427] Monte Carlo method, Buffon needle problem, random numbers, probability, mathematics 1955 May p 90–96 galactic clusters, probability, universe, gravitation, cosmology, distribution of galaxies as test of cosmologies 1956 Sept p 187–200 gas kinetics, computer modeling, mathematical model, chemistry by
magnetometer, large molecule spectroscopy 1958 Aug p 58-66 [233] monomolecular films, properties and uses of monomolecular films 1961 Mar p 152-164 catenane, chemical topology, topological isomer, cyclic molecules, ring molecules, linking and knotting of ring molecules 1962 Nov p 94-102 [286] electron shells, computer modeling, quantum chemistry, molecular orbits computer graphics 1970 Apr p 54-70 atomic nucleus, chemical bond, energy levels, gamma radiation, Mossbauer spectroscopy 1971 Oct p 86-95	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128–138 [427] Monte Carlo method, Buffon needle problem, random numbers, probability, mathematics 1955 May p 90–96 galactic clusters, probability, universe, gravitation, cosmology, distribution of galaxies as test of cosmologies 1956 Sept p 187–200 gas kinetics, computer modeling, mathematical model, chemistry by computer 1964 July p 100–108
magnetometer, large molecule spectroscopy 1958 Aug p 58–66 [233] monomolecular films, properties and uses of monomolecular films 1961 Mar p 152–164 catenane, chemical topology, topological isomer, cyclic molecules, ring molecules, linking and knotting of ring molecules 1962 Nov p 94–102 [286] electron shells, computer modeling, quantum chemistry, molecular orbits computer graphics 1970 Apr p 54–70 atomic nucleus, chemical bond, energy levels, gamma radiation, Mossbauer spectroscopy 1971 Oct p 86–95 aromatic hydrocarbons, benzene derivatives, aromaticity	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128–138 [427] Monte Carlo method, Buffon needle problem, random numbers, probability, mathematics 1955 May p 90–96 galactic clusters, probability, universe, gravitation, cosmology, distribution of galaxies as test of cosmologies 1956 Sept p 187–200 gas kinetics, computer modeling, mathematical model, chemistry by computer 1964 July p 100–108 moon, cratering, meteorites, tectonic processes, origin of lunar craters 1949 July p 20–24
magnetometer, large molecule spectroscopy 1958 Aug p 58–66 [233] monomolecular films, properties and uses of monomolecular films 1961 Mar p 152–164 catenane, chemical topology, topological isomer, cyclic molecules, ring molecules, linking and knotting of ring molecules 1962 Nov p 94–102 [286] electron shells, computer modeling, quantum chemistry, molecular orbits computer graphics 1970 Apr p 54–70 atomic nucleus, chemical bond, energy levels, gamma radiation, Mossbauer spectroscopy 1971 Oct p 86–95 aromatic hydrocarbons, benzene derivatives, aromaticity 1972 Aug p 32–40	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128–138 [427] Monte Carlo method, Buffon needle problem, random numbers, probability, mathematics 1955 May p 90–96 galactic clusters, probability, universe, gravitation, cosmology, distribution of galaxies as test of cosmologies 1956 Sept p 187–200 gas kinetics, computer modeling, mathematical model, chemistry by computer 1964 July p 100–108 moon, cratering, meteorites, tectonic processes, origin of lunar craters 1949 July p 20–24 solar eclipse, orbital motion, Earth 1954 Feb p 36–40
magnetometer, large molecule spectroscopy 1958 Aug p 58–66 [233] monomolecular films, properties and uses of monomolecular films 1961 Mar p 152–164 catenane, chemical topology, topological isomer, cyclic molecules, ring molecules, linking and knotting of ring molecules 1962 Nov p 94–102 [286] electron shells, computer modeling, quantum chemistry, molecular orbits computer graphics 1970 Apr p 54–70 atomic nucleus, chemical bond, energy levels, gamma radiation, Mossbauer spectroscopy 1971 Oct p 86–95 aromatic hydrocarbons, benzene derivatives, aromaticity 1972 Aug p 32–40 enzyme action, lock-and-key theory, protein shape-change, protein	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128–138 [427] Monte Carlo method, Buffon needle problem, random numbers, probability, mathematics 1955 May p 90–96 galactic clusters, probability, universe, gravitation, cosmology, distribution of galaxies as test of cosmologies 1956 Sept p 187–200 gas kinetics, computer modeling, mathematical model, chemistry by computer 1964 July p 100–108 moon, cratering, meteorites, tectonic processes, origin of lunar craters 1949 July p 20–24 solar eclipse, orbital motion, Earth 1954 Feb p 36–40 manned space flight, robot spacecraft 1960 May p 61–69
magnetometer, large molecule spectroscopy 1958 Aug p 58-66 [233] monomolecular films, properties and uses of monomolecular films 1961 Mar p 152-164 catenane, chemical topology, topological isomer, cyclic molecules, ring molecules, linking and knotting of ring molecules 1962 Nov p 94-102 [286] electron shells, computer modeling, quantum chemistry, molecular orbits computer graphics 1970 Apr p 54-70 atomic nucleus, chemical bond, energy levels, gamma radiation, Mossbauer spectroscopy 1971 Oct p 86-95 aromatic hydrocarbons, benzene derivatives, aromaticity 1972 Aug p 32-40 enzy me action, lock-and-key theory, protein shape-change, protein structure 1973 Oct p 52-64 [1280]	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128–138 [427] Monte Carlo method, Buffon needle problem, random numbers, probability, mathematics 1955 May p 90–96 galactic clusters, probability, universe, gravitation, cosmology, distribution of galaxies as test of cosmologies 1956 Sept p 187–200 gas kinetics, computer modeling, mathematical model, chemistry by computer 1964 July p 100–108 moon, cratering, meteorites, tectonic processes, origin of lunar craters 1949 July p 20–24 solar eclipse, orbital motion, Earth 1954 Feb p 36–40 manned space flight, robot spacecraft 1960 May p 61–69 interferometry, solar system, planets, ionosphere, radar astronomy,
magnetometer, large molecule spectroscopy 1958 Aug p 58–66 [233] monomolecular films, properties and uses of monomolecular films 1961 Mar p 152–164 catenane, chemical topology, topological isomer, cyclic molecules, ring molecules, linking and knotting of ring molecules 1962 Nov p 94–102 [286] electron shells, computer modeling, quantum chemistry, molecular orbits computer graphics 1970 Apr p 54–70 atomic nucleus, chemical bond, energy levels, gamma radiation, Mossbauer spectroscopy 1971 Oct p 86–95 aromatic hydrocarbons, benzene derivatives, aromaticity 1972 Aug p 32–40 enzyme action, lock-and-key theory, protein shape-change, protein structure 1973 Oct p 52–64 [1280] aromatic hydrocarbons pyrogenesis polycyclic aromatic compunds 1976 Mar p 34–45	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128–138 [427] Monte Carlo method, Buffon needle problem, random numbers, probability, mathematics 1955 May p 90–96 galactic clusters, probability, universe, gravitation, cosmology, distribution of galaxies as test of cosmologies 1956 Sept p 187–200 gas kinetics, computer modeling, mathematical model, chemistry by computer 1964 July p 100–108 moon, cratering, meteorites, tectonic processes, origin of lunar craters 1949 July p 20–24 solar eclipse, orbital motion, Earth 1956 Feb p 36–40 manned space flight, robot spacecraft 1960 May p 61–69 interferometry, solar system, planets, ionosphere, radar astronomy, technology and promise of radar astronomy
magnetometer, large molecule spectroscopy 1958 Aug p 58–66 [233] monomolecular films, properties and uses of monomolecular films 1961 Mar p 152–164 catenane, chemical topology, topological isomer, cyclic molecules, ring molecules, linking and knotting of ring molecules 1962 Nov p 94–102 [286] electron shells, computer modeling, quantum chemistry, molecular orbits computer graphics 1970 Apr p 54–70 atomic nucleus, chemical bond, energy levels, gamma radiation, Mossbauer spectroscopy 1971 Oct p 86–95 aromatic hydrocarbons, benzene derivatives, aromaticity 1972 Aug p 32–40 enzyme action, lock-and-key theory, protein shape-change, protein structure 1973 Oct p 52–64 [1280] aromatic hydrocarbons pyrogenesis polycyclic aromatic compunds 1976 Mar p 34–45 atomic structure, crystal structure, disclinations, dislocations, periodic	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128–138 [427] Monte Carlo method, Buffon needle problem, random numbers, probability, mathematics 1955 May p 90–96 galactic clusters, probability, universe, gravitation, cosmology, distribution of galaxies as test of cosmologies 1956 Sept p 187–200 gas kinetics, computer 1964 July p 100–108 moon, cratering, meteorites, tectonic processes, origin of lunar craters 1949 July p 20–24 solar eclipse, orbital motion, Earth 1954 Feb p 36–40 interferometry, solar system, planets, ionosphere, radar astronomy, technology and promise of radar astronomy 1960 Aug. p 50–59 Earth, tektites, meteorites, moon as source of tektites
magnetometer, large molecule spectroscopy 1958 Aug p 58–66 [233] monomolecular films, properties and uses of monomolecular films 1961 Mar p 152–164 catenane, chemical topology, topological isomer, cyclic molecules, ring molecules, linking and knotting of ring molecules 1962 Nov p 94–102 [286] electron shells, computer modeling, quantum chemistry, molecular orbits computer graphics 1970 Apr p 54–70 atomic nucleus, chemical bond, energy levels, gamma radiation, Mossbauer spectroscopy 1971 Oct p 86–95 aromatic hydrocarbons, benzene derivatives, aromaticity 1972 Aug p 32–40 enzyme action, lock-and-key theory, protein shape-change, protein structure 1973 Oct p 52–64 [1280] aromatic hydrocarbons pyrogenesis polycyclic aromatic compunds 1976 Mar p 34–45 atomic structure, crystal structure, disclinations, dislocations, periodic structures 1977 Dec p 130–145 [1393]	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128–138 [427] Monte Carlo method, Buffon needle problem, random numbers, probability, mathematics 1955 May p 90–96 galactic clusters, probability, universe, gravitation, cosmology, distribution of galaxies as test of cosmologies 1956 Sept p 187–200 gas kinetics, computer 1964 July p 100–108 moon, cratering, meteorites, tectonic processes, origin of lunar craters 1949 July p 20–24 solar eclipse, orbital motion, Earth 1954 Feb p 36–40 manned space flight, robot spacecraft 1960 May p 61–69 interferometry, solar system, planets, ionosphere, radar astronomy, technology and promise of radar astronomy 1960 Aug. p 50–59 Earth, tektites, meteorites, moon as source of tektites 1964 Feb p 50–57 lunar geology, satellite, stratigraphy, cratering, lunar time scale, Ranger
magnetometer, large molecule spectroscopy 1958 Aug p 58–66 [233] monomolecular films, properties and uses of monomolecular films 1961 Mar p 152–164 catenane, chemical topology, topological isomer, cyclic molecules, ring molecules, linking and knotting of ring molecules 1962 Nov p 94–102 [286] electron shells, computer modeling, quantum chemistry, molecular orbits computer graphics 1970 Apr p 54–70 atomic nucleus, chemical bond, energy levels, gamma radiation, Mossbauer spectroscopy 1971 Oct p 86–95 aromatic hydrocarbons, benzene derivatives, aromaticity 1972 Aug p 32–40 enzy me action, lock-and-key theory, protein shape-change, protein structure 1973 Oct p 52–64 [1280] aromatic hydrocarbons pyrogenesis polycyclic aromatic compunds 1976 Mar p 34–45 atomic structure, crystal structure, disclinations, dislocations, periodic structures 1977 Dec p 130–145 [393] tRNA, gene transcription protein synthesis 3-D structure of tRNA	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128–138 [427] Monte Carlo method, Buffon needle problem, random numbers, probability, mathematics 1955 May p 90–96 galactic clusters, probability, universe, gravitation, cosmology, distribution of galaxies as test of cosmologies 1956 Sept p 187–200 gas kinetics, computer modeling, mathematical model, chemistry by computer 1964 July p 100–108 moon, cratering, meteorites, tectonic processes, origin of lunar craters 1949 July p 20–24 solar eclipse, orbital motion, Earth 1954 Feb p 36–40 interferometry, solar system, planets, ionosphere, radar astronomy, technology and promise of radar astronomy 1960 Aug. p 50–59 Earth, tektites, meteorites, moon as source of tektites 1964 Feb p 50–57 lunar geology, satellite, stratigraphy, cratering, lunar time scale, Ranger photographs
magnetometer, large molecule spectroscopy 1958 Aug p 58-66 [233] monomolecular films, properties and uses of monomolecular films 1961 Mar p 152-164 catenane, chemical topology, topological isomer, cyclic molecules, ring molecules, linking and knotting of ring molecules 1962 Nov p 94-102 [286] electron shells, computer modeling, quantum chemistry, molecular orbits computer graphics 1970 Apr p 54-70 atomic nucleus, chemical bond, energy levels, gamma radiation, Mossbauer spectroscopy 1971 Oct p 86-95 aromatic hydrocarbons, benzene derivatives, aromaticity 1972 Aug p 32-40 enzyme action, lock-and-key theory, protein shape-change, protein structure 1973 Oct p 52-64 [1280] aromatic hydrocarbons pyrogenesis polycyclic aromatic compunds 1976 Mar p 34-45 atomic structure, crystal structure, disclinations, dislocations, periodic structures 1977 Dec p 130-145 [393] tRNA, gene transcription protein synthesis 3-D structure of tRNA	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128–138 [427] Monte Carlo method, Buffon needle problem, random numbers, probability, mathematics 1955 May p 90–96 galactic clusters, probability, universe, gravitation, cosmology, distribution of galaxies as test of cosmologies 1956 Sept p 187–200 gas kinetics, computer modeling, mathematical model, chemistry by computer 1964 July p 100–108 moon, cratering, meteorites, tectonic processes, origin of lunar craters 1949 July p 20–24 solar eclipse, orbital motion, Earth 1954 Feb p 36–40 manned space flight, robot spacecraft 1960 May p 61–69 interferometry, solar system, planets, ionosphere, radar astronomy, technology and promise of radar astronomy 1960 Aug. p 50–59 Earth, tektites, meteorites, moon as source of tektites 1964 Feb p 50–57 lunar geology, satellite, stratigraphy, cratering, lunar time scale, Ranger photographs 1964 Dec p 38–47 lunar luminescence, solar radiation, Kepler crater, solar flares
magnetometer, large molecule spectroscopy 1958 Aug p 58–66 [233] monomolecular films, properties and uses of monomolecular films 1961 Mar p 152–164 catenane, chemical topology, topological isomer, cyclic molecules, ring molecules, linking and knotting of ring molecules 1962 Nov p 94–102 [286] electron shells, computer modeling, quantum chemistry, molecular orbits computer graphics 1970 Apr p 54–70 atomic nucleus, chemical bond, energy levels, gamma radiation, Mossbauer spectroscopy 1971 Oct p 86–95 aromatic hydrocarbons, benzene derivatives, aromaticity 1972 Aug p 32–40 enzy me action, lock-and-key theory, protein shape-change, protein structure 1973 Oct p 52–64 [1280] aromatic hydrocarbons pyrogenesis polycyclic aromatic compunds 1976 Mar p 34–45 atomic structure, crystal structure, disclinations, dislocations, periodic structures 1977 Dec p 130–145 [393] tRNA, gene transcription protein synthesis 3-D structure of tRNA 1978 Jan p 52–62 [1377] molecular surface films, crystal surfaces, monomolecular films, two- dimensional crystals	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128–138 [427] Monte Carlo method, Buffon needle problem, random numbers, probability, mathematics 1955 May p 90–96 galactic clusters, probability, universe, gravitation, cosmology, distribution of galaxies as test of cosmologies 1956 Sept p 187–200 gas kinetics, computer modeling, mathematical model, chemistry by computer 1964 July p 100–108 moon, cratering, meteorites, tectonic processes, origin of lunar craters 1949 July p 20–24 solar eclipse, orbital motion, Earth 1956 May p 61–69 interferometry, solar system, planets, ionosphere, radar astronomy, technology and promise of radar astronomy 1960 May p 50–59 Earth, tektites, meteorites, moon as source of tektites 1964 Feb p 50–57 lunar geology, satellite, stratigraphy, cratering, lunar time scale, Ranger photographs 1964 Dec p 38–47 lunar luminescence, solar radiation, Kepler crater, solar flares meteorites, impact of solar protons? 1965 May p 28-37
magnetometer, large molecule spectroscopy 1958 Aug p 58–66 [233] monomolecular films, properties and uses of monomolecular films 1961 Mar p 152–164 catenane, chemical topology, topological isomer, cyclic molecules, ring molecules, linking and knotting of ring molecules 1962 Nov p 94–102 [286] electron shells, computer modeling, quantum chemistry, molecular orbits computer graphics 1970 Apr p 54–70 atomic nucleus, chemical bond, energy levels, gamma radiation, Mossbauer spectroscopy 1971 Oct p 86–95 aromatic hydrocarbons, benzene derivatives, aromaticity 1972 Aug p 32–40 enzyme action, lock-and-key theory, protein shape-change, protein structure 1973 Oct p 52–64 [1280] aromatic hydrocarbons pyrogenesis polycyclic aromatic compunds 1976 Mar p 34–45 atomic structure, crystal structure, disclinations, dislocations, periodic structures 1977 Dec p 130–145 [393] tRNA, gene transcription protein synthesis 3-D structure of tRNA 1978 Jan p 52–62 [1377] molecular surface films, crystal surfaces, monomolecular films, two- dimensional crystals 1973 May p 30–40 molecular vibrations, infrared spectroscopy, chemical analysis, molecular	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128–138 [427] Monte Carlo method, Buffon needle problem, random numbers, probability, mathematics 1955 May p 90–96 galactic clusters, probability, universe, gravitation, cosmology, distribution of galaxies as test of cosmologies 1956 Sept p 187–200 gas kinetics, computer modeling, mathematical model, chemistry by computer 1964 July p 100–108 moon, cratering, meteorites, tectonic processes, origin of lunar craters 1949 July p 20–24 solar eclipse, orbital motion, Earth 1954 Feb p 36–40 manned space flight, robot spacecraft 1960 May p 61–69 interferometry, solar system, planets, ionosphere, radar astronomy, technology and promise of radar astronomy 1960 Aug. p 50–59 Earth, tektites, meteorites, moon as source of tektites 1964 Feb p 50–57 lunar geology, satellite, stratigraphy, cratering, lunar time scale, Ranger photographs 1964 Dec p 38–47 lunar luminescence, solar radiation, Kepler crater, solar flares meteorites, impact of solar protons? 1965 May p 28–37 extraterrestiral life, infrared astronomy. Venus atmosphere wandors
magnetometer, large molecule spectroscopy 1958 Aug p 58-66 [233] monomolecular films, properties and uses of monomolecular films 1961 Mar p 152-164 catenane, chemical topology, topological isomer, cyclic molecules, ring molecules, linking and knotting of ring molecules 1962 Nov p 94-102 [286] electron shells, computer modeling, quantum chemistry, molecular orbits computer graphics 1970 Apr p 54-70 atomic nucleus, chemical bond, energy levels, gamma radiation, Mossbauer spectroscopy 1971 Oct p 86-95 aromatic hydrocarbons, benzene derivatives, aromaticity 1972 Aug p 32-40 enzyme action, lock-and-key theory, protein shape-change, protein structure 1973 Oct p 52-64 [1280] aromatic hydrocarbons pyrogenesis polycyclic aromatic compunds 1976 Mar p 34-45 atomic structure, crystal structure, disclinations, dislocations, periodic structures 1977 Dec p 130-145 [393] tRNA, gene transcription protein synthesis 3-D structure of tRNA 1978 Jan p 52-62 [1377] molecular surface films, crystal surfaces, monomolecular films, two- dimensional crystals 1973 May p 30-40 molecular vibrations, infrared spectroscopy, chemical analysis, molecular bonds	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128–138 [427] Monte Carlo method, Buffon needle problem, random numbers, probability, mathematics 1955 May p 90–96 galactic clusters, probability, universe, gravitation, cosmology, distribution of galaxies as test of cosmologies 1956 Sept p 187–200 gas kinetics, computer modeling, mathematical model, chemistry by computer 1964 July p 100–108 moon, cratering, meteorites, tectonic processes, origin of lunar craters 1949 July p 20–24 solar eclipse, orbital motion, Earth 1954 Feb p 36–40 manned space flight, robot spacecraft 1960 May p 61–69 interferometry, solar system, planets, ionosphere, radar astronomy, technology and promise of radar astronomy 1960 Aug. p 50–59 Earth, tektites, meteorites, moon as source of tektites 1964 Feb p 50–57 lunar geology, satellite, stratigraphy, cratering, lunar time scale, Ranger photographs 1964 Dec p 38–47 lunar luminescence, solar radiation, Kepler crater, solar flares meteorites, impact of solar protons? 1965 May p 28–37 extraterrestrial life, infrared astronomy, Venus, atmospheric windows, Mars, Jupiter, spectrometry, history and recent results of infrared astronomy
magnetometer, large molecule spectroscopy 1958 Aug p 58-66 [233] monomolecular films, properties and uses of monomolecular films 1961 Mar p 152-164 catenane, chemical topology, topological isomer, cyclic molecules, ring molecules, linking and knotting of ring molecules 1962 Nov p 94-102 [286] electron shells, computer modeling, quantum chemistry, molecular orbits computer graphics 1970 Apr p 54-70 atomic nucleus, chemical bond, energy levels, gamma radiation, Mossbauer spectroscopy 1971 Oct p 86-95 aromatic hydrocarbons, benzene derivatives, aromaticity 1972 Aug p 32-40 enzyme action, lock-and-key theory, protein shape-change, protein structure 1973 Oct p 52-64 [1280] aromatic hydrocarbons pyrogenesis polycyclic aromatic compunds 1976 Mar p 34-45 atomic structure, crystal structure, disclinations, dislocations, periodic structures 1977 Dec p 130-145 [393] tRNA, gene transcription protein synthesis 3-D structure of tRNA 1978 Jan p 52-62 [1377] molecular surface films, crystal surfaces, monomolecular films, two- dimensional crystals 1973 May p 30-40 molecular vibrations, infrared spectroscopy, chemical analysis, molecular bonds 1953 Oct p 42-48 [257] molecular weight, ultracentrifuse, sedimentation fraction and data	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128–138 [427] Monte Carlo method, Buffon needle problem, random numbers, probability, mathematics 1955 May p 90–96 galactic clusters, probability, universe, gravitation, cosmology, distribution of galaxies as test of cosmologies 1956 Sept p 187–200 gas kinetics, computer modeling, mathematical model, chemistry by computer 1964 July p 100–108 moon, cratering, meteorites, tectonic processes, origin of lunar craters 1949 July p 20–24 solar eclipse, orbital motion, Earth 1954 Feb p 36–40 manned space flight, robot spacecraft 1960 May p 61–69 interferometry, solar system, planets, ionosphere, radar astronomy, technology and promise of radar astronomy 1960 Aug. p 50–59 Earth, tektites, meteorites, moon as source of tektites 1964 Feb p 50–57 lunar geology, satellite, stratigraphy, cratering, lunar time scale, Ranger photographs 1964 Dec p 38–47 lunar luminescence, solar radiation, Kepler crater, solar flares meteorites, impact of solar protons? 1965 May p 28–37 extraterrestrial life, infrared astronomy, Venus, atmospheric windows, Mars, Jupiter, spectrometry, history and recent results of infrared astronomy 1965 Aug. p 20–29 lunar exploration, space exploration, lunar surface, spacecraft design,
magnetometer, large molecule spectroscopy 1958 Aug p 58–66 [233] monomolecular films, properties and uses of monomolecular films 1961 Mar p 152–164 catenane, chemical topology, topological isomer, cyclic molecules, ring molecules, linking and knotting of ring molecules 1962 Nov p 94–102 [286] electron shells, computer modeling, quantum chemistry, molecular orbits computer graphics 1970 Apr p 54–70 atomic nucleus, chemical bond, energy levels, gamma radiation, Mossbauer spectroscopy 1971 Oct p 86–95 aromatic hydrocarbons, benzene derivatives, aromaticity 1972 Aug p 32–40 enzyme action, lock-and-key theory, protein shape-change, protein structure 1973 Oct p 52–64 [1280] aromatic hydrocarbons pyrogenesis polycyclic aromatic compunds 1976 Mar p 34–45 atomic structure, crystal structure, disclinations, dislocations, periodic structures 1977 Dec p 130–145 [393] tRNA, gene transcription protein synthesis 3-D structure of tRNA 1978 Jan p 52–62 [1377] molecular surface films, crystal surfaces, monomolecular films, two- dimensional crystals 1973 May p 30–40 molecular vibrations, infrared spectroscopy, chemical analysis, molecular bonds 1953 Oct p 42–48 [257] molecular weight, ultracentrifuge, sedimentation, fractionation, oil drive, air drive, magnetic suspension 900 000 g 60 million r p m	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128–138 [427] Monte Carlo method, Buffon needle problem, random numbers, probability, mathematics 1955 May p 90–96 galactic clusters, probability, universe, gravitation, cosmology, distribution of galaxies as test of cosmologies 1956 Sept p 187–200 gas kinetics, computer 1964 July p 100–108 moon, cratering, meteorites, tectonic processes, origin of lunar craters 1949 July p 20–24 solar eclipse, orbital motion, Earth 1954 Feb p 36–40 manned space flight, robot spacecraft 1960 May p 61–69 interferometry, solar system, planets, ionosphere, radar astronomy, technology and promise of radar astronomy 1960 Aug. p 50–59 Earth, tektites, meteorites, moon as source of tektites 1964 Feb p 50–57 lunar geology, satellite, stratigraphy, cratering, lunar time scale, Ranger photographs 1964 Dec p 38–47 lunar luminescence, solar radiation, Kepler crater, solar flares meteorites, impact of solar protons? 1965 May p 28–37 extraterrestrial life, infrared astronomy, Venus, atmosphene windows, Mars, Jupiter, spectrometry, history and recent results of infrared astronomy 1965 Aug. p 20–29 lunar exploration, space exploration, lunar surface, spacecraft design, Ranger missions
magnetometer, large molecule spectroscopy 1958 Aug p 58–66 [233] monomolecular films, properties and uses of monomolecular films 1961 Mar p 152–164 catenane, chemical topology, topological isomer, cyclic molecules, ring molecules, linking and knotting of ring molecules 1962 Nov p 94–102 [286] electron shells, computer modeling, quantum chemistry, molecular orbits computer graphics 1970 Apr p 54–70 atomic nucleus, chemical bond, energy levels, gamma radiation, Mossbauer spectroscopy aromatic hydrocarbons, benzene derivatives, aromaticity 1972 Aug p 32–40 enzy me action, lock-and-key theory, protein shape-change, protein structure 1973 Oct p 52–64 [1280] aromatic hydrocarbons pyrogenesis polycyclic aromatic compunds atomic structure, crystal structure, disclinations, dislocations, periodic structures 1977 Dec p 130–145 [393] tRNA, gene transcription protein synthesis 3-D structure of tRNA 1978 Jan p 52–62 [1377] molecular surface films, crystal surfaces, monomolecular films, two- dimensional crystals 1973 May p 30–40 molecular vibrations, infrared spectroscopy, chemical analysis, molecular bonds 1953 Oct p 42–48 [257] molecular weight, ultracentrifuge, sedimentation, fractionation, oil drive, air drive, magnetic suspension 900 000 g 60 million r p m 1951 June p 42–51 molecular weight determination, polymers light seatives as every search of the sear	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128–138 [427] Monte Carlo method, Buffon needle problem, random numbers, probability, mathematics 1955 May p 90–96 galactic clusters, probability, universe, gravitation, cosmology, distribution of galaxies as test of cosmologies 1956 Sept p 187–200 gas kinetics, computer 1964 July p 100–108 moon, cratering, meteorites, tectonic processes, origin of lunar craters 1949 July p 20–24 solar eclipse, orbital motion, Earth 1954 Feb p 36–40 manned space flight, robot spacecraft 1960 May p 61–69 interferometry, solar system, planets, ionosphere, radar astronomy, technology and promise of radar astronomy 1960 Aug. p 50–59 Earth, tektites, meteorites, moon as source of tektites 1964 Feb p 50–57 lunar geology, satellite, stratigraphy, cratering, lunar time scale, Ranger photographs 1964 Dec p 38–47 lunar luminescence, solar radiation, Kepler crater, solar flares meteorites, impact of solar protons? 1965 May p 28–37 extraterrestrial life, infrared astronomy, Venus, atmospheric windows, Mars, Jupiter, spectrometry, history and recent results of infrared astronomy 1965 Aug. p 20–29 lunar exploration, space exploration, lunar surface, spacecraft design, Ranger missions 1966 Jan p 52–67 lunar surface, telemetry, space exploration, high-resolution photography Lunar Orbiter space missions
magnetometer, large molecule spectroscopy 1958 Aug p 58-66 [233] monomolecular films, properties and uses of monomolecular films 1961 Mar p 152-164 catenane, chemical topology, topological isomer, cyclic molecules, ring molecules, linking and knotting of ring molecules 1962 Nov p 94-102 [286] electron shells, computer modeling, quantum chemistry, molecular orbits computer graphics 1970 Apr p 54-70 atomic nucleus, chemical bond, energy levels, gamma radiation, Mossbauer spectroscopy 1971 Oct p 86-95 aromatic hydrocarbons, benzene derivatives, aromaticity 1972 Aug p 32-40 enzyme action, lock-and-key theory, protein shape-change, protein structure 1973 Oct p 52-64 [1280] aromatic hydrocarbons pyrogenesis polycyclic aromatic compunds 1976 Mar p 34-45 atomic structure, crystal structure, disclinations, dislocations, periodic structures 1977 Dec p 130-145 [393] tRNA, gene transcription protein synthesis 3-D structure of tRNA 1978 Jan p 52-62 [1377] molecular surface films, crystal surfaces, monomolecular films, two- dimensional crystals 1973 May p 30-40 molecular vibrations, infrared spectroscopy, chemical analysis, molecular bonds 1973 May p 30-40 molecular weight, ultracentrifuge, sedimentation, fractionation, oil drive, air drive, magnetic suspension 900 000 g 60 million r p m 1951 June p 42-51 molecular weight determination, polymers light scattering system p. 60-67	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128–138 [427] Monte Carlo method, Buffon needle problem, random numbers, probability, mathematics 1955 May p 90–96 galactic clusters, probability, universe, gravitation, cosmology, distribution of galaxies as test of cosmologies 1956 Sept p 187–200 gas kinetics, computer 1964 July p 100–108 moon, cratering, meteorites, tectonic processes, origin of lunar craters 1949 July p 20–24 solar eclipse, orbital motion, Earth 1954 Feb p 36–40 manned space flight, robot spacecraft 1960 May p 61–69 interferometry, solar system, planets, ionosphere, radar astronomy, technology and promise of radar astronomy 1960 Aug. p 50–59 Earth, tektites, meteorites, moon as source of tektites 1964 Feb p 50–57 lunar geology, satellite, stratigraphy, cratering, lunar time scale, Ranger photographs 1964 Dec p 38–47 lunar luminescence, solar radiation, Kepler crater, solar flares meteorites, impact of solar protons? 1965 May p 28–37 extraterrestrial life, infrared astronomy, Venus, atmospheric windows, Mars, Jupiter, spectrometry, history and recent results of infrared astronomy 1965 Aug. p 20–29 lunar exploration, space exploration, lunar surface, spacecraft design, Ranger missions 1966 Jan p 52–67 lunar surface, telemetry, space exploration, high-resolution photography Lunar Orbiter space missions
magnetometer, large molecule spectroscopy 1958 Aug p 58–66 [233] monomolecular films, properties and uses of monomolecular films 1961 Mar p 152–164 catenane, chemical topology, topological isomer, cyclic molecules, ring molecules, linking and knotting of ring molecules 1962 Nov p 94–102 [286] electron shells, computer modeling, quantum chemistry, molecular orbits computer graphics 1970 Apr p 54–70 atomic nucleus, chemical bond, energy levels, gamma radiation, Mossbauer spectroscopy 1971 Oct p 86–95 aromatic hydrocarbons, benzene derivatives, aromaticity 1972 Aug p 32–40 enzy me action, lock-and-key theory, protein shape-change, protein structure 1973 Oct p 52–64 [1280] aromatic hydrocarbons pyrogenesis polycyclic aromatic compunds 1976 Mar p 34–45 atomic structure, crystal structure, disclinations, dislocations, periodic structures 1977 Dec p 130–145 [393] tRNA, gene transcription protein synthesis 3-D structure of tRNA 1978 Jan p 52–62 [1377] molecular surface films, crystal surfaces, monomolecular films, two- dimensional crystals 1973 May p 30–40 molecular vibrations, infrared spectroscopy, chemical analysis, molecular bonds 1953 Oct p 42–48 [257] molecular weight, ultracentrifuge, sedimentation, fractionation, oil drive, air drive, magnetic suspension 900 000 g 60 million r p m 1951 June p 42–51 molecular weight determination, polymers light scattering viscometer, photometer, how giant molecules are measured 1957 Sept p 90–97 polymers light scattering viscometer, photometer, how giant molecules	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128–138 [427] Monte Carlo method, Buffon needle problem, random numbers, probability, mathematics 1955 May p 90–96 galactic clusters, probability, universe, gravitation, cosmology, distribution of galaxies as test of cosmologies 1956 Sept p 187–200 gas kinetics, computer 1964 July p 100–108 moon, cratering, meteorites, tectonic processes, origin of lunar craters 1949 July p 20–24 solar eclipse, orbital motion, Earth 1954 Feb p 36–40 manned space flight, robot spacecraft 1960 May p 61–69 interferometry, solar system, planets, ionosphere, radar astronomy, technology and promise of radar astronomy 1960 Aug. p 50–59 Earth, tektites, meteorites, moon as source of tektites 1964 Feb p 50–57 lunar geology, satellite, stratigraphy, cratering, lunar time scale, Ranger photographs 1964 Dec p 38–47 lunar luminescence, solar radiation, Kepler crater, solar flares meteorites, impact of solar protons? 1965 May p 28–37 extraterrestrial life, infrared astronomy, Venus, atmospheric windows, Mars, Jupiter, spectrometry, history and recent results of infrared astronomy 1965 Aug. p 20–29 lunar exploration, space exploration, lunar surface, spacecraft design, Ranger missions 1965 May p 58–78 lunar surface, telemetry, space exploration, high-resolution photography Lunar Orbiter space missions 1968 May p 58–78 lunar exploration, lunar landing sites manned space flight, remote sensing 1965 and 1972 to 20–29 lunar exploration, lunar landing sites manned space flight, remote sensing 1965 May p 58–78 lunar exploration, lunar landing sites manned space flight, remote sensing 1965 May p 58–78 lunar exploration, lunar landing sites manned space flight, remote sensing 1965 May p 58–78 lunar exploration, lunar landing sites manned space flight, remote sensing 1965 may p 52–67 lunar exploration, lunar landing sites manned space flight, remote sensing 1965 may p 52–67 lunar exploration, lunar landing s
magnetometer, large molecule spectroscopy 1958 Aug p 58–66 [233] monomolecular films, properties and uses of monomolecular films 1961 Mar p 152–164 catenane, chemical topology, topological isomer, cyclic molecules, ring molecules, linking and knotting of ring molecules 1962 Nov p 94–102 [286] electron shells, computer modeling, quantum chemistry, molecular orbits computer graphics 1970 Apr p 54–70 atomic nucleus, chemical bond, energy levels, gamma radiation, Mossbauer spectroscopy 1971 Oct p 86–95 aromatic hydrocarbons, benzene derivatives, aromaticity 1972 Aug p 32–40 enzyme action, lock-and-key theory, protein shape-change, protein structure 1973 Oct p 52–64 [1280] aromatic hydrocarbons pyrogenesis polycyclic aromatic compunds 1976 Mar p 34–45 atomic structure, crystal structure, disclinations, dislocations, periodic structures 1977 Dec p 130–145 [393] tRNA, gene transcription protein synthesis 3-D structure of tRNA 1978 Jan p 52–62 [1377] molecular surface films, crystal surfaces, monomolecular films, two- dimensional crystals 1973 May p 30–40 molecular vibrations, infrared spectroscopy, chemical analysis, molecular bonds 1973 May p 30–40 molecular weight, ultracentrifuge, sedimentation, fractionation, oil drive, air drive, magnetic suspension 900 000 g 60 million r p m 1951 June p 42–51 molecular weight determination, polymers light scattering viscometer, photometer, how giant molecules are measured 1957 Sept p 90–97 polymers light scattering viscometer, photometer, bow giant moleculer	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128–138 [427] Monte Carlo method, Buffon needle problem, random numbers, probability, mathematics 1955 May p 90–96 galactic clusters, probability, universe, gravitation, cosmology, distribution of galaxies as test of cosmologies 1956 Sept p 187–200 gas kinetics, computer 1964 July p 100–108 moon, cratering, meteorites, tectonic processes, origin of lunar craters 1949 July p 20–24 solar eclipse, orbital motion, Earth 1954 Feb p 36–40 manned space flight, robot spacecraft 1960 May p 61–69 interferometry, solar system, planets, ionosphere, radar astronomy, technology and promise of radar astronomy 1960 Aug. p 50–59 Earth, tektites, meteorites, moon as source of tektites 1964 Feb p 50–57 lunar geology, satellite, stratigraphy, cratering, lunar time scale, Ranger photographs 1964 Dec p 38–47 lunar luminescence, solar radiation, Kepler crater, solar flares meteorites, impact of solar protons? 1965 May p 28–37 extraterrestrial life, infrared astronomy, Venus, atmospheric windows, Mars, Jupiter, spectrometry, history and recent results of infrared astronomy 1965 Aug. p 20–29 lunar exploration, space exploration, lunar surface, spaceceraft design, Ranger missions 1965 May p 58–78 lunar surface, telemetry, space exploration, high-resolution photography Lunar Orbiter space missions 1968 May p 58–78 lunar exploration, lunar landing sites manned space flight, remote sensing 4pollo project laser reflection orbital motion protograph space as a surface of space flight, remote 1969 Oct p 54–72 [889]
magnetometer, large molecule spectroscopy 1958 Aug p 58–66 [233] monomolecular films, properties and uses of monomolecular films 1961 Mar p 152–164 catenane, chemical topology, topological isomer, cyclic molecules, ring molecules, linking and knotting of ring molecules 1962 Nov p 94–102 [286] electron shells, computer modeling, quantum chemistry, molecular orbits computer graphics 1970 Apr p 54–70 atomic nucleus, chemical bond, energy levels, gamma radiation, Mossbauer spectroscopy 1971 Oct p 86–95 aromatic hydrocarbons, benzene derivatives, aromaticity 1972 Aug p 32–40 enzy me action, lock-and-key theory, protein shape-change, protein structure 1973 Oct p 52–64 [1280] aromatic hydrocarbons pyrogenesis polycyclic aromatic compunds 1976 Mar p 34–45 atomic structure, crystal structure, disclinations, dislocations, periodic structures 1977 Dec p 130–145 [393] tRNA, gene transcription protein synthesis 3-D structure of tRNA 1978 Jan p 52–62 [1377] molecular surface films, crystal surfaces, monomolecular films, two- dimensional crystals 1973 May p 30–40 molecular vibrations, infrared spectroscopy, chemical analysis, molecular bonds 1953 Oct p 42–48 [257] molecular weight, ultracentrifuge, sedimentation, fractionation, oil drive, air drive, magnetic suspension 900 000 g 60 million r p m 1951 June p 42–51 molecular weight determination, polymers light scattering viscometer, photometer, how giant molecules are measured 1957 Sept p 90–97 polymers light scattering viscometer, photometer, how giant molecules	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128–138 [427] Monte Carlo method, Buffon needle problem, random numbers, probability, mathematics 1955 May p 90–96 galactic clusters, probability, universe, gravitation, cosmology, distribution of galaxies as test of cosmologies 1956 Sept p 187–200 gas kinetics, computer modeling, mathematical model, chemistry by computer 1964 July p 100–108 moon, cratering, meteorites, tectonic processes, origin of lunar craters 1949 July p 20–24 solar eclipse, orbital motion, Earth 1954 Feb p 36–40 manned space flight, robot spacecraft 1960 May p 61–69 interferometry, solar system, planets, ionosphere, radar astronomy, technology and promise of radar astronomy 1960 Aug. p 50–59 Earth, tektites, meteorites, moon as source of tektites 1964 Feb p 50–57 lunar geology, satellite, stratigraphy, cratering, lunar time scale, Ranger photographs 1964 Dec p 38–47 lunar luminescence, solar radiation, Kepler crater, solar flares meteorites, impact of solar protons? 1965 May p 28–37 extraterrestrial life, infrared astronomy, Venus, atmospheric windows, Mars, Jupiter, spectrometry, history and recent results of infrared astronomy 1965 Aug. p 20–29 lunar exploration, space exploration, lunar surface, spacecraft design, Ranger missions 1965 May p 58–78 lunar orbiter space missions 1968 May p 58–78 lunar exploration, lunar landing sites manned space flight, remote

addiction in rat

Apollo project, meteorites, lunar soil, regolith, stru	Cture and history of		
1110011	1070 Aug - 14 5	- President Poppi, neroni, concine, nen	itley's compound drug
day's length, Earth-Moon system, lunar orbit, tide:	\$	drille addiction, moderal became to	36 Nov p 131-136[304]
Apollo samples, carbon chemistry, cosmology, sola	1972 Apr p 42-5	2 Of Inorphine addiction	1971 Jan p 96-102
or processingles, carbon enemistry, cosmology, soil	ir wind	cellular dependence	1063 Sent n 86
lunar evolution, lunar rocks, solar system, Apollo r	1972 Oct p 80-9	i garagi oudiditophiage, virus structure, 14	virus DNA mutation
	1975 Sept p 92-103	test-tube reconstruction of viral components	
arphonsus crater	1959 June p 78		967 July p 60-74 [1079]
topography of 'back' of the moon	1959 Dec p 79	embryonic development. Hydra, morphogans	н, сениаг розану, -
lunar atomosphere heated by tidal forces?	1960 June p 86) 19	174 Dec p 44-54 [1309]
US Apollo program	1962 Oct p 63	morphology, pollen, scanning electron microscope	, flower, plant cell
U S Apollo program	1963 Sept p 83 1963 Dec p 64	19	68 Apr p 80-90 [1105]
luminous red spots observed	1964 Feb p 67	mortality, trout, stream ecology, population control ones and let the big ones go!	
Luna 9 far-side photographs	1965 Oct p 40	poverty as cause of death in New York City	1953 May p 81-86 1965 Apr p 58
magnetic field	1966 June p 54	mortality rates, epidemiology, morbidity, economic	c development, income
Surveyor I data	1966 July p 50	Status, occupational health, 'social medicine'	environment material
Lunar Orbiter II photographs, Copernicus crater Surveyor 3 data	1967 Jan p 55	well-being behavior of disease	1949 Apr p 11-15
lunar gravity map	1967 June p 50	the second carries of the second the action	
Apollo 12 lunar seismometer	1968 Oct p 58 1970 Sept p 86		
Luna 16 soil sample	1970 Nov p 43	age-sex distribution, fertility, US census, human	1949 Oct p 30-41
craters simulation in laboratory	1970 Nov p 45	of US	1951 Sept p 28-35
Apollo 15 mission	1971 Sept p 74	public health, morbidity, medical care, health sta	tistics, health
as Australasian-tektite source	1971 Nov p 50	insurance, U.S. National Health Survey	1966 June p 21-29
heat source on moon Apollo 16, lunar magnetism, lunar rocks	1972 Jan p 47	medical care, medicine, physical incapacitation, n	norbidity, hospital
cratering clue to age	1972 June p 51 1974 July p 47	care, ambulatory care, triage, health insurance,	1973 Sept p 22-33
moon illusion, visual perception, apparent distance the	orv. Gestalt	single-topic issue on medical care chronic illness, morbidity, medical care, vital stati	
psychology, explanation of a familiar illusion	,,	infectious disease, degenerative diseases, causes	of death
1962 Ju	ly p 120-130 [462]	-	1973 Sept p 76-84
'size constancy' correction	1959 Nov p 95	medical care, surgery, surgical specialties, malprac	tice claims, post-
moon surface, spacecraft, lunar geology, cratering, luna structure, history, origin of moon from nine space	ir exploration,	operative negligence	1973 Sept p 90-98
	967 Mar p 60-74	birth rate, population explosion, developing count population	974 Sept p 146~137
soil, robot lander, Surveyor spacecraft, surface sample	ler	causes of death in U S	1967 Feb p 36
Ĩ	967 Nov p 34-43	Framingham study, US coronary casualty rate	1971 May p 44
moons, asteroids, meteorids, solar system, planetisimals		causes of death in US males	1972 Jan p 50 1974 Aug p 46
Titan atmosphere	5 Sept p 142-159 1973 Aug p 43	decline in VS coronaries mosaic, Greek civilization, Macedonia, Hellenic art, I	Pella, capital of
moons of Jupiter, Galileo, mertia, gravity, Galileo, biog		Macedonia	1966 Dec p 98-105
appraisal 1	949 Aug p 40-47	see also genetic mosaic	
moose, caribou, cold adaptation, rodent, polar ecology.		mosquito bite, yellow fever, insect behavior, malana, f	feeding behavior, ne p 138–148 [1392]
A	1960 Jan p 60–68	magnite unuallante chamaragantar macauta fargets	
morbidity, disease, archeology, surgery, record of illness ancients	among the 1949 Jan p 52-55	mosquito repellants, chemoreceptor, mosquito targets	975 July p 104-111
epidemiology, mortality rates, economic development			daria
occupational health, 'social medicine', environment	t, material well-		1952 June p 22-25
	949 Apr p 11–15	yellow fever, sexual behavior, reproduction, eggs, lat	68 Apr p 108-116
public health, medical care, health statistics, mortality insurance, U.S. National Health Survey	rates, nearth 966 June p 21–29	to a located about malaria Diagnadum narasitism re	enroduction,
medical care, medicine, physical incapacitation, morta		gametocyte 1970 June	n 125-121 (1100)
hospital care, ambulatory care, triage, health insura	nce, introduction	what attracts them	1951 Apr p 34 1951 Aug p 36
to single-topic issue on medical care 19	73 Sept p 22–33	biting habits	1962 Oct p 63
chronic illness, mortality rates, medical care, vital stati	istics, life	chemical sterilization mother-child interaction, heartbeat maternal behavior.	fetal conditioning
expectancy, infectious disease degenerative disease	73 Sept p 76-84	left-side preference in habyholding	9/3 May P 47 4.
medical technology, medical care, hospital care, ambu	latory care,	communication crying infant behavior, neonatal dis-	order, sound far p 84-90 [558]
international comparison of medical care systems		spectrogram 1974 M moths, camouflage, evolution, melanism speciation air	nollution
	75 Aug p 17-25 1955 Jan p 48		Olution observed
most on one-third morel, mycology, fungi, wheat rust, ergot, potato blight	manita.	1939 W	at 1) 40 22 10 3
Pentullium notatum yeast, molds and men		sonar bats predator-prey relationship auditory perce	ption
1952 Ja:	n p 28-32 [115]	ultrasound, moth sonar detection of bat ultrasound	p 94-102 [1009]
Mormons, social values, Zunis, Spanish-Americans, agric	ulturai system	air pollution evolution melanism, gene mutation pop	ulation genetics
Navaho, comparative study of cultures in New Mexi-	56 July p 25-31	predation, evolution observed again 1973 Jan	p 90 99 [1314] 1957 Dec p 66
marshames verbal communication communication, acou	istic formants,	ultra-sonic auditory perception motility in bacteria, flagella contractile proteins keratin	myosin
phonetics markedness/unmarkedness dyad syntax	COMIC II	larmy 'l m e f' group	31 3211 12 40 4.
a martinette en amant /s arrable d\ad	z acht b venon	and a manufactured percention 'Ames room', distant	ce perception
morphine, alkaloids, plant physiology strychnine, hemloc physostigmine, caffeine, contine quinne, cocaine rec	inine LSD.	optical illusion size perception illusions as clues to o	1 Aug. p. 50-55
		perception ontical illusion neuropsychology relative vs absolute m	sotion
	ndrome sell- 5 Feb p 80-88	1959 July	p 56-60 [409]
1.00			

visual perception, optical illusion, illusion	of movement, apparent	moving-surface memories, charge-coupled devices, digital com	iputer,
movement	1964 Oct p 98-106 [487]	magnetic bubble memories, semiconductor memories, microelectronics 1977 Sept p 1:	30_145 [378]
eye, visual perception	1975 June p 76–88 [564]	microelectronics 1977 Sept p 1. moving-target perception, eye, motion-perception system,	20-145 [510]
visual perception, adjacency principle, co	1978 May p 126-139 [582]	neurophysiology, visual perception 1977 Jan p	60-73 [575]
motion-perception system, eye, moving-targ		mRNA: messenger ribonucleic acid	
neurophysiology, visual perception	1977 Jan p 60-13 [373]	mRNA, ribosome, protein synthesis, DNA, tRNA, nucleus, cl	hromosome,
motion picture film, aggression, violence, de	clinquency, television,		p 74–82 [92]
catharsis, effects of observing filmed vi	iolence	gene transcription, protein synthesis, the RNA messenger f protein synthesis 1962 Feb p	rom gene to
	1964 Feb p 35–41 [481]	protein synthesis tRNA, genetic code, DNA, ribosome, protein synthesis, gei	
motion pictures, psychiatry, psychiatric film	ns in teaching and therapy 1949 Sept p 42-43	elucidated, amino acid 'dictionary' 1963 Mar p	80-94 [153]
motivation, achievement, aspiration, social		amino acids, protein synthesis, formylmethionine, ribosom	e, tRNA,
self-anchoring scale	1963 Feb p 41–45	initiation of protein synthesis 1968 Jan p	36–42 [1092]
'reactive inhibition', fatigue, schizophren	na, experiment in objective	DNA transcription, electron microscopy, gene action visua	
measurement of motivation	1963 May p 130-140	ribosome 1973 Mar p	
motor neuron, nerve conduction, synapse,	reflex arc, membrane potential,	genetic engineering, frog eggs, gene expression, hemoglobin molecule 1976 Aug p	i, Kiva 60_71 [1343]
inhibitory impulse, transmitter molecu	1965 Jan p 56–66 [1001]		1 Aug p 62
at the neural synapse central nervous system, reflex arc, neuro			1 Dec p 81
contraction, nerve inhibition, interneu	iron, stretch reflex, Renshaw		2 May p 78
cell, synapse	1966 May p 102110		9 Dec p 53
nervous system, vision, reflex arc, intern	euron, animal behavior, small	mRNA inhibition, antibiotics, actinomycin, DNA-actinomyci	
neuron systems as models for study	1967 May p 44–52 [1073]	protein synthesis 1974 Aug p	02-91 [1303]
bacterial toxin, tetanus, botulism, paraly impulse, synapse, Clostridium tetani,	Clostedum botulinum	mucus, glycoprotein synthesis, Golgi apparatus, goblet cells,	
impuise, synapse, Clostitulum tetain,	1968 Apr p 69–77	carbohydrate, saccules 1969 Feb p 10	
motor reflex, central nervous system, med	ulla, reticular formation, brain,	mulch, dust storms, drought, dry-land farming, soil reclamation	on,
perception, neurophysiology, attentio	on and orienting mechanism in	agricultural technology, shelter belts, U S High Plains 19	
brain	1957 May p 54-60 [66]	agricultural technology, herbicide, weed control, tillage wit	Aug p 7–11
motor vehicle accidents, mortality by age g motor vehicle death rates, international co	group 1968 Mar p 54 omparison 1966 Sept p 102	agricultural technology, herbicide, weed control, thiage with	
mound builders, New World archeology, a	gricultural revolution.		3 Apr p 84
statistical seriation, Mississippian cul	lture, pre-Columbian	mules, animal husbandry, horse, donkeys, genetics and natur	al history of
Mississippi valley on verge of urban r	revolution 1952 Mar p 22-27	mule 1970 Dec p 10	
Mount Ararat, Biblical archeology, Urarti	u, Altıntepe, 800 B C culture at	multiband camera, aerial photography, natural resources, infr	
Noah's landing-place Mount McKinley, cartography, photogran	1967 Mar p 38-46 mmetry 1949 Jan p 46-51	photography, remote sensing, remote sensing of natural 1968	resources Ian p 54–69
mountain formation, tectonic processes, E	arth mantle, convection		4 Sept p 68
currents, the 'blister hypothesis'	1949 June p 16–21	multiphasic screening, national health insurance, medical care	
Earth crust, isostasis, granitization, oce	an basins, ocean floor, tectonic	technology, Kaiser health plan, H M O, screening out th	
processes, comprehensive review of u			Apr p 15–23
acceptance of continental drift) continental evolution, geosyncline, plat	1950 May p 32–41	multiple independently-targetable reentry vehicle, see MIRV multiple resistance, bacteria, drug resistance, mutation, DNA	P factor
Apallachian foldbelt	1972 Mar p 30–38 [899]		Dec p 19-27
continental drift, earthquake zones, ma	agnetization patterns, subduction	multiple sclerosis, autosensitivity, nervous disease, autoimmu	
zones, plate tectonics, sea floor sprea			July p 16-19
geology	1972 May p 56–68 [900]	allergic reaction, autosensitivity, poison ivy, dermatitis, rhe	
continental drift, Gondwanaland, Him formation, magnetization patterns, p		arthritis, delayed hypersensitivity 1960 Apr brain disease, scrapie, kuru, Chediak-Higashi syndrome, vi	r p 129–137
spreading	1973 May p 62–72 [908]	animal vectors 1967 Jan	p 110–116
Andes, earthquake distribution, plate t	tectonics, seismic waves, volcanic	slow virus infection, myelin sheath, poliomyelitis, demyelin	ating factor.
activity	1973 Aug p 60–69 [910]	latent viruses 1970 J	uly p 40-46
dust storms, Mars, terrestrial planets, of erosion, hydrology, solar system	1975 Sept p 106–117	virus implicated 197 multiple-star systems, planetary systems, sunlike stars, freque	6 May p 53
earthquake zones, island arcs, lithosph	iene subduction, plate tectonics,	systems', survey of 123 nearby stars 1977 Ar	or p 96-104
sea-floor spreading subduction zon	es, volcanic zones	multiplexing, communication technology, laser, signal transm	ussion,
continental drift earthqual areas. C	1975 Nov p 88–98 [919]	signal transmission by laser 1966 Jan p	19-27 [302]
continental drift, earthquake zones, G India-Furasia collision, plate tecton	oon Desert, Himalaya formation,	communication networks, communication satellite, electron	nic
plateau	1977 Apr p 30-41	switching, network theory, radio, communication, teleph television systems 1972. Sept	one systems, 1 p 116–128
mountain glaciers, climate, glaciation sir	nce Ice Age, sea-ice fluctuations	multipotential cells, cancer, tumor, teratoma, gene expression.	. plant cell
glacier fluctuations mountains, avalanche control, snow, ho	1970 June p 100-110	inhibitions 1965 No. p.	75_83 (1024)
prevention of slides	ar frost, types, causes and 1966 Feb p 92–101	multivariate analysis, stone tools tool assemblages, factor and	ilysis.
mouse, population control animal migr	ration, food supply	computer analysis Paleolithic archeology, Bordes metho tools as fossils of behavior 1969 Apr p	d, stone
	1955 Dec. p. 92-100	municipal hospitals, medical economics, medical care, public	70-84 [643]
water retention physiological adapta musculus, commensal of man	tion behavioral adaptation, Mus	voluntary hospitals proprietary hospitals, metropolitan	medical
mouse-human hybrid cells, cell hybridiz	1969 Oct p 103-110 [1159]	economics in New York City 1965 i	lan n 10 27
Somanic CCHS	1074 1 5 26 44 (1200)	muon, high-energy physics strange particles, pions conservat strangeness sorting out the multiplicity of particles	tion of
Mousterian assemblages, glaciation Tee Ukraine	Age hunters mammoths	1957 July =	72-88 [213]
moving-boundary electrophoresis, electric	1974 June p 96–105 [685]	particle interaction electron weak force, high-energy phy	12-00 (213) SICS
wineren wanning	1951 Dec. p. 45–53	properties of massive negative particle 1061 t	41 66 1375
mosing stones, on Raceteast Mass.	222 220 h 42403	machinal election elementary particles electromagnetism	l ,
		num 1966 Ap	or p 93-100
		196	1 Mar p 80

	· · · · · · · · · · · · · · · · · · ·
muon-beam, communication system proposed 1972 Sept p	66
muon neutrino, a particle interaction, hera decay, noutres	sarcoplasmic reticulum, insect flight, synchronous muscle, asynchronous muscle, insect flight muscles
accelerator, weak' force, experiment demonstrating existence of muon neutrino	1965 Inne p. 76 99 Hall
muonic atoms, atomic nucleus, atomic structure, exotic atoms, kaonic	actin, muscle contraction, protein switch transmissing transmin
months, particle acceptator, pions, quantum mechanics high-angenty	1075 No. 26 AS 112701
1877 Na 100 to	10
nontain, moon, electron, elementary particles, electromagnetism,	muscle relayation muscle control of the part of the pa
positronium, atom, structure of muonium 1966 Apr p 93-16 murder, psychoanalysis, psychopathology, 'prevention of murder'	A 1 P, actinomyosin 1952 Dec p. 18.21
Kuanyana Amba and and a specific properties of murder 1949 June p 50-5	muscle spindles, muscle control, psychophysics, sensory feedback
Kuanyama Ambo, anthropology, social controls, monarchy	servomechanisms, stretch reflex, tendon organ
1050 Oct = 52 5	5 muscle tissue, embracase cells11 dec
in Middle Ages	
muscial notation, hearing, loudness variations, musical dynamics, musical instruments, musician performance 1974 Nov. p. 78-9	mushroom poisoning, fungi, mushrooms, toxins. Amanita phalloides
muscle, locomotion, walking, primates human evolution, himodal	Injectic acid 1975 Mar n 90-101
walking, bone, fossil record, origin of human walking	mushrooms, fungi, plant growth, mycelium, burgeoning explained
1967 Apr n 56 66 11070	1956 May p 97-106 fungi, mushroom poisoning, toxins, Amanita phalloides, thiocine acid
A1P, glycol) sis, aerobic metabolism, oxygen debt lactic acid	1975 Mar p 90-101
formation, aerobic metabolism, anaerobic metabolism, energy mechanisms in muscle 1977 Mar. p. 84-91 11244	rapid culture of mushroom 1956 May p 62
artificial muscle lifts 100 pounds 1972 Mar p 84-91 [1244] artificial muscle lifts 100 pounds 1951 July p 32	
see also artificial muscle	i de de la company de la compa
muscle cell, cell anatomy, spermatozoon, ovum, virus, science history,	structure of music 1959 Dec p 109-120 sound reproduction, tape recorders, speech grammaphones, auditory
cytology, plant cell, connective tissue cell, introduction to single-	perception, engineering of sound systems 1961 Aug p 72-84
topic issue on the living cell 1961 Sept p 50-61 [90] muscle contraction, ATP, actin, myosin, muscle fibril, biochemical	bass, cello, viola, violin, Chladni patterns, musical instruments physics
mechanism of muscle contraction 1949 June p 22-25	of violins 1962 Nov p 78-93
physiology, nervous system, endocrine system, respiration, nerve	musical instruments, piano, harmonics, harpsichord physics of the piano 1965 Dec p 88-99
impulse, science, physiology 1900-1950 1950 Sept p. 71-76	voice, singing voice, pharvnx, larvnx, acoustics of singing voice
artificial muscle, Langmuir trough, ATP, actinomyosin, muscle relaxation 1957 Dec. p. 18-21	1977 Mar p 82-91
ATP, fermentation, citric-acid cycle, energy transformation	music and mathematics, musical scale, tone ladder, Pythagorean doctrine
1953 Apr p 85-92	harmonic proportions, Kepler, vibrating string 1967 Dec p 92-103 music perception, brain hemispheres cerebral dominance left-
energy transformation, actinomyosin, mechanochemical engine	hemisphere functions, right-hemisphere functions, auditory
1954 Mar p 72–76	perception, visual perception 1973 Mar p 70-78 [534]
cardiac arrhythmia, heart, coronary occlusion, cardiac pacemaker, operation of cardiac pump 1957 May p 74-87 [62]	musical dynamics, hearing, loudness variations, musical instruments musical notation musician performance 1974 Nov. p. 78-95
grasshopper, nerve conduction, biomechanics of leap	musical notation musician performance 1974 Not p 18-33 musical illusions, auditory perception, brain hemispheres, cerebral
1958 Jan p 30-35	dominance, handedness, hearing, illusions, perception, two-tone
electron microscopy, muscle fiber, myosin, actin, muscle fiber structure	illusion 1975 Oct p 92–104 [300]
and function 1958 Nov p 66-82 [19] actinomyosin, cyclosis, cilia, flagella, cytology, cytoplasmic streaming,	musical instruments, vibrating air column clarinet, oboe, flute, bassoon English horn, saxophone, physics of the wood winds
actin, myosin, underlying unity of cellular motion	1960 Oct p 144-174
1961 Sept p 184-204 [97]	have calle male make Chieden natterns music this see of violins
actin, myosin, ATP, electron microscopy, sliding-filament hypothesis	1962 Nov p 78-93
1965 Dec p 18-27 [1026] central nervous system, reflex arc, neuromyscular control, nerve	music, piano harmonics harpsichord, physics of the piano 1965 Dec p 88-99
inhibition, interneuron, motor neuron, stretch reflex, Renshaw cell,	physics of brosses have flore tripped hell tripped bille
synapse 1966 May p 102-110	physics of orasses, north flate, frumper och, reamper physics of other physics of orasses, north flate, frumper och, reamper physics, north flate, fru
locust, insect flight, flight control system, nerve network, inhibitory impulse 1968 May p 83-90	string instruments, 'following bow' experiment, Raman waves 'wolf' note, physics of bowed string 1974 Jan p 87-95
ATP, calcium, barnacle, bioluminescence, aequorin, calcium ions in	harring loudness a greations, musical dynamics, muscual notation
muscle construction 1970 Apr p 84-93 [1175]	musician performance 1974 Nov p 16-33
physiological tremor, sensory feedback 1971 Mar p 65-73 [1217] ATP, actin, myosin, actinomyosin, tropomyosin, troponin, calcium	musical scale, physics, harmony, string instruments, wind instruments piano, voice, acoustics agreeable melodies and physical laws
microstructure of muscle filament and biochemistry of contraction	1948 July p 32-41
1974 Feb p 58-71 [1290]	tone ladder, Pythagorean doctrine music and mathematics harmonic proportions Kepler, vibrating string 1967 Dec p 92-103
actin, muscle fibril, protein switch, tropomyosin, troponin, myosin	proportions Kepler, vibrating string 1967 Dec p 92-103 musical tones, oscillographs 1951 May p 52-53
calicum in muscle 1975 Nov p 36-45 [1329] single-unit control 1964 Mar p 58	musician performance hearing loudness variations musical dynamics
muscle control, muscle spindles, psychophysics, sensory feedback	musical instruments muscial notation 1974 Not p 18-93
sen omechanisms, stretch reflex, tendon organ	muskone, pheromones insect physiology, sexual behavior queen substance, social behavior ants Gypsy moths mice
1972 May p 30-37 [1249] brain organization, cerebellum, cerebral motor cortex, monket	1963 May p 100-114 [131]
experiments (9/3 July p 90-103 [127]	mussels, malnutrition food supply, human population hunger human
wiente Cher calcium hone mitotic spindle, calcium and life	nutrition Incaparina eland capybara manatee developing countries unorthodox food sources 1967 Feb p 27 35 [10/5]
1931 Julie 1 00-03	mutation, neurospora, natural selection, gene expression, Mendehan
electron microscopy, muscle contraction, my solid p 66-82 [19]	inheritance genetic disease, tryptophan niacin relation, one gene
Structure and rancoon assure reticulum, electron microscops,	one enzyme hypothesis, selection for defect 1948 Sept. p. 30-19 [1] phenotype genetype gene expression 1949 Oct. p. 46-47
sarcoplasmic reticulum, functions deduced from structure 1965 Mar p 72-80 [1007]	population genetics evolution E coli Drosophila sexual
ATP actin muosin biochemical	recombination speciation natural selection genetic bills of
muscle fibril, muscle contraction ATT, actin hijosia. 1949 June p 22-25 mechanism of muscle contraction	evolution 1979 Jun p 12 At [0]

eratogenesis, genetic disease, studied for clues to genetic controls 1950 June p 16–19	mutualism, fungı, insect behavior, fungus gardens, insect-fungus relations 1967 Nov p 112-120 [1086]
chromosome, evolutionary diversity, science, genetics 1900-1950, one	mycelium, fungi, mushrooms, plant growth, burgeoning explained 1956 May p 97-106
human evolution, natural selection, gene mutation, eugenics, 'man's	Mycenaean civilization, Classical archeology, burial treasure, Agamemnon, dig started by Schliemann continues
genetic future' 1952 Feb p 68-74 Lysenkoism, Lamarck, acquired characteristics, genotype, evolution,	1954 Dec p 72–78
Lysenkoism, Lamarck, acquired characteristics, genotype, evolution,	Greek civilization, Linear B script, Classical archeology, Pylos, King
phenotype, ostrich calluses, speciation, religion, orthodoxy,	Nestor's palace, 1200 B C 1958 May p 110–121
Darwinism, experiments in acquired characteristics	castle, nuraghi, Classical archeology, building construction, 1000 BC
1953 Dec p 92–99	proto-castles in Sardinia 1959 Dec p 62–69
virology, tobacco mosaic virus, amino-acid sequence	Bronze Age, Iron age culture, rock paintings, Camunian culture, Italian
1955 July p 74-78 [59]	rock carvings 1960 Jan p 52–59
ionizing radiation, recessive gene 1955 Nov p 58-68 [29]	Hebrew civilization, Linear A script, Linear B script, Minoan
Mendel's laws, chromosome mapping, science history, the gene on the	civilization, Crete, Semites, common origin of Greek and Hebrew
eve of the resolution of the genetic code 1956 Oct. p 78-90 [17]	civilizations 1965 Feb p 102–111
camouflage, evolution, melanism, moths, speciation, air pollution,	Greek prehistory, Linear B script, origins of writing
population genetics, genetic variation, evolution observed	1972 Oct p 36–44 [681]
1959 Mar p 48–53 [842]	mycology, fungi, wheat rust, ergot, potato blight, morel, amanita,
chromosome breakage, radiation damage, ionizing radiation, cytology,	
radiation damage to living cell 1959 Sept p 94-100 [57]	Penicillium notatum, yeast, molds and men 1952 Jan p 28-32 [115]
evolution, ionizing radiation, radiation-induced mutation in evolution	my corrhiza, fungi, orchids, symbiosis, plant evolution, adaptation,
1959 Sept p 138–160 [55]	
environmental pollution, ionizing radiation, fallout, atomic bomb test,	
radiation damage, public health, hazards of radiation to society	my elin sheath, cell membrane, electron microscopy, endoplasmic
1959 Sept p 219–232 [1214]	reticulum, mitochondria, nuclear membrane, electron microscope
cancer therapy, radiation damage, nitrogen mustard, carcinogenesis,	study of membranes in cell 1962 Apr p 64-72 [151] slow virus infection, multiple sclerosis, poliomyelitis, demyelinating
nuclear medicine, chemical imitation of radiation injury	
1960 Jan p 99–108	factor, latent viruses 1970 July p 40–46 myeloma, antibody molecule, immunoglobin, antigen binding, Bence-
radiation damage, high-energy radiation, nuclear medicine, X-ray, no	Jones proteins, amino-acid sequence, antibody amino-acid sequence
threshhold to biological damage by radiation	
1960 Apr p 142–153 [71]	determination 1970 Aug p 34-42 [1185] myocardial infarction, cancer, enzyme blood levels, hepatitis, cancer
antibodies, antigens, protein synthesis, immunology, immune response,	diagnosis, leukemia, medical diagnosis, diagnosis by presence of
selection theory of immunity 1961 Jan p 58–67 [78] penicillin, drug resistance, bacteriology 1961 Mar p 66–71	abnormal enzymes 1961 Aug p 99–107
penicillin, drug resistance, bacteriology 1961 Mar p 66-71 DNA, ultraviolet radiation, effects of ultraviolet on weakest links in	my ogenic rhythm, cell differentiation, cell aggregation, heart cells, heart
chain 1962 Dec p 135–144 [143]	contraction, rat cardiac cells in vitro 1962 May p 141-152
genetic code, tobacco mosaic virus, RNA nucleotides, protein	my oglobin, insulin, protein structure, ribonuclease, amino-acid sequence,
synthesis, amino-acid sequence, relation of RNA mutations to amino	enzyme action, resolution of atomic structure of three molecules
acid changes 1964 Oct p 46–54 [193]	1961 Feb p 81–92 [80]
congenital anomalies, genetic disease, hemophilia, epidemiology, in	amino acids, proteins, X-ray crystallography, alpha helix, 3-D structure
Queen Victoria's descendants 1965 Aug. p 88–95	of protein molecule 1961 Dec p 96–11 [121]
antibiotics, protein synthesis, streptomycin, genetic code, ribosome,	allosteric enzymes, hemoglobin, X-ray diffraction amino-acid
DNA, RNA, 'misreadings' induced by antibiotic alterations of	sequence, contour maps, folding of four chains, alpha chain, beta
nbosomes 1966 Apr p 102–109	chain 1964 Nov p 64-76 [196]
amino acids, DNA, protein synthesis, genetic code, molecular biology,	enzymes, protein synthesis, hemoglobin, control systems, feedback.
triplets, RNA, anticodon, ribosomes, triplets, wobble hypothesis	cooperative enzymes, allosteric enzymes, control of biochemical
1966 Oct. p 55–62 [1052]	reactions 1965 Apr p 36-45 [1008]
protein structure, amino-acid sequence, gene protein colinearity, DNA	evolution hemoglobin, molecular evolution, amino acids, evolutionary
structure, gene mapping, base 1967 May p 80-94 [1074]	distance measured by amino-acid substitution
bacteriophage, virus structure, T4 virus, DNA, morphogenesis, test-	1965 May p 110-118 [1012]
tube reconstruction of viral components 1967 July p 60-74 [1079]	mathematical model, computer modeling, giant molecules, cytochrome
bacteria, drug resistance, DNA R-factor, antibiotics, transferable drug	helix, hemoglobin, molecular modeling, DNA
resistance, multiple resistance 1967 Dec p 19–27	1966 June p 42-52 [1043]
blood groups, genetic drift, consanguinity, gene pool, evolution,	tertiary structure 1959 June p 76
population genetics Parma Valley, Italy 1969 Aug. p 30-37	antigen structure 1976 Mar p 60B
evolution gene pool, genetic load, electrophoresis, population genetics heterozygosity 1970 Mar p 98-107 [1172]	myosin, muscle contraction, ATP, actin, muscle fibril, biochemical
and a second of the second of	mechanism of muscle contraction 1949 June p 22–25
25 % trialy p 20	flagella, contractile proteins keratin, epidermis, 'k m e f' group,
mutation directed, in Brookhaven reactor 1954 Jan p 44 mutation rate, evolution, E. coli, penicillin resistance, evolution observed	motility in bacteria 1951 Jan p 20–24
1953 Oct p 78–83	collagen, elastin keratin, fibrin, cell polymers, polymers in living cells
DNA replication, ultraviolet radiation, radiation damage, thymine	1957 Sept p 204-216 [35] electron microscopy, muscle contraction, muscle fiber, actin, muscle
dimer, repair of DNA 1967 Feb n 36_43	fiber structure and function 1958 No. p. 66-82 (10)
Cytochrome C, protein evolution, protein structure, resouration, amino-	fiber structure and function 1958 Nov p 66-82 [19] actinomy osin, cyclosis, cilia, muscle contraction, flagella cytology,
acid substitution 12 billion year record of evolution, ancient protein	cytoplasmic streaming, actin, underlying unity of cellular motion
1977 Apr n 58 72 (1245)	1961 Sept p 184–204 [97]
mutual assured destruction, ABM, arms race 1CRM, MIDV STRAC	actin, muscle contraction, ATP, electron microscopy, sliding-filament
counterforce strategy, strategic balance, national security	hypothesis 1965 Dec. p. 19 27 (1924)
1969 Aug p 17–29 [330]	A 17, actin actinomyosin, muscle contraction, tronomyosin, tronomy
atomic weapons arms race, SALI, MIRV, counterforce strategy,	calcium microstructure of muscle filament and biochemistry of
arms control antisubmarine warfare, missile submarines SALT,	contraction 1974 Feb a 59 71 (1990)
OF DATE OF THE RECORDS TO THE TENER OF TRACE	actin muscle contraction, muscle libril, protein switch tropomi ocin
ABM ICBM MIRV, atom c armaments counterforce strategy.	Gopolini Calicum in muscle 1075 No 26 46 11000
MINICAL WENGER SHIP FACE	Artable regulion trade, Near East Trankingense Biblical
counterforce strategy, military expenditures SALT arms race MIRV	dichecology cultures of southern Arabia 1060 Page 20 46 46 and
MARY 1974 May p 20-31	manlike creatures
- 14 hav p 2045t	1968 Oct p 112-118
•	• 12 33

myxomatosis, rabbit plague, Australia, pest control 1954 Feb p 30-35

Nabataean culture, irrigation, wadi, desert, agricu restoration of Nabataean irrigation works in	ltural system, the Negev
O	1056
Nabataeans, Greek civilization, Near East archeol	1956 Apr p 39-45
Hellenization of Arabs	logy, Petra,
Negocati constant Data Maria	1963 Oct p 94-102
Nagasaki casualty, Prof T Nagaidies	1061 7
narcotics, drug addiction, withdrawal syndrome, r	ats and monkeys
voluntary self-injection	964 Mar - 16 62 11701
narwhal, unicorn, how unicorn acquired narwhal's	horn
- Land of the land	1951 Mar p 42-43
nastic movement, plant movement, turgor movement	1951 Wai p 42–43
phototropism, touch orientation	iit, geotropism,
National Academy of Engineering, established	1955 Feb p 100-106
National Academy of Science	1965 Feb p 50
National Academy of Sciences, gene manipulation,	, gene splicing,
recombinant DNA, science policy, NIH guide	elines
19'	77 July p 22-23 [1362]
elections	1951 May n 32
National Accelerator Laboratory, particle accelerate	or, proton beam
neutrino beam, synchrotron	1974 Feb n 72 92
National Astronomical Observatory, to be located a	t Kitt Peak
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1958 May p 54
National Bureau of Standards, see NBS	1220 May p 34
'national character', cultural anthropology, tribes	10/10 Aug = 11 15
national economic policy, economic development, in	CI-II d Snu cect
agricultural technology, Federal intervention in	iuusiranzanon,
development of U.S. South	1062 Control
national health increases and and and	1963 Sept p 224-232
national health insurance, medical care, group pract	
	1949 June p 11-15
medical care, medical technology, multiphasic scr	eening, Kaiser health
plan, H M O, screening out the 'worned well'	1970 Apr p 15–23
medical care, health statistics, medical-cost control	
expenditures, US Federal expenditure on med	
	1971 Apr p 17-25
infectious disease, medical care, child health care,	
illness, delivery of medical care	1973 Apr p 13-17
medical care financing, H M O, Kaiser health pla	n, Medicaid,
	973 Sept p 169-175
Washington proposal	1948 Oct p 24
National Ocean and Atmosphere Administration, see	NOAA
National Science Board, fortifies N S F	1952 Jan p 38
chairs filled	1956 July p 49
National Science Foundation, see NSF	.,
national security, arms race, atomic test ban, atomic l	oomb test, missile
policy, military technology, fallout shelters 1964	4 Oct p 27–35 [319]
ABM, arms race, ICBM, MIRV, SLBM, mutual as:	sured destruction
counterforce strategy strategic balance 1969	Aug p 17-29 [330]
natural fibers, artificial fibers, spinning technology, te	xtile fibers, varn
	1972 Dec D 46-36
natural gas, pipelines, economic regionalism in US, a	ppraisal of natural
gas, economics and resources in US	1951 Nov p 17-21
coal, energy resources, oil reserves, energy economic	
impending petroleum shortage	1956 Oct p 43-49
liquid natural gas, pipelines, tankers, storage, distrib	
iiquid natural gas, pipelines, minare, rierege,	1967 Oct p 30-37
natural history, insect behavior, social insect, army ant	, ants, comparative
psychology, reproduction, feedback, pheromones,	trophallaxis,
abiliacophy of science anthropomorphism	1948 June p 10-23
hickory, fences, axe-handles, smoked ham, hickory n	uts, economic n
to the force charbark hickory	1948 Sept D 40-43
placiation paleontology, Agassiz, Louis Agassiz, fost	tering of science in n
A merica	1343 3813 b 40-21
marcunal folklore	1953 June p 88-94 N
	953 Nov p 86-91 N
	1954 May p 64-68 N
	1954 July p 60-64 N
to the second and the people will be and the	rk of Pierre-Louis
	r-prey Ne
relationship, entomology	960 June p 72-78
	or, Toxotes
arener usu, predator proj	3 July p 100–108

```
Arachnida, false scorpion, animal behavior, Chelifer canroides
                                                        1966 Mar p 95-100 [1039]
          aggression, rats, animal behavior, social behavior, territorial behavior
             Rattus rattus, Rattus norvegicus
                                                               1967 Jan p 78-85
          cryptozoa, Berlese funnel, ecological niche, cryptosphere, animal
             behavior, life under rocks and rotting logs
                                                       1968 July p 108-114 [1112]
          albatross, evolution, animal behavior, bird flight, sexual behavior,
            soaring
                                                        1970 Nov p 84-93 [1204]
       natural polymers, materials technology, polymers, plastics, cross linking
            covalent bonds
                                                            1967 Sept p 148-156
       natural reactor, CANDU reactor, nuclear power, heavy-water reactor,
            fission reactor, CANDU system
                                                               1975 Oct p 17-27
         fission products, nuclear fission, Oklo phenomenon, Precambnan
           reactor, uranium deposits
                                                              1976 July p 36-47
         nuclear power, CANDU reactor
                                                                  1975 July p 45
      natural resources, Earth crust, mining, metal ores, natural concentration
                                                           1960 June p 146-154
         magnetometer, geomagnetism, mining, mineral prospecting, aenal
           prospecting
                                                           1961 June p 151-162
        aerial photography, infrared photography, remote sensing multiband
           camera, remote sensing of natural resources
                                                              1968 Jan p 54-69
        distribution of wealth, economic development, middle classes,
          population growth, production statistics, demographic transition
                                                             1976 July p 28-35
     natural selection, neurospora, mutation, gene expression, Mendelian
          inheritance, genetic disease, tryptophan-niacin relation, one gene
          one enzyme hypothesis, selection for defect 1948 Sept p 30-39[1]
       population genetics, evolution, E coli, Drosophila, mutation, sexual
          recombination, speciation, genetic basis of evolution
                                                         1950 Jan p 32-41 [6]
       extinction, species specificity, adaptation, evolutionary radiation.
                                                           1950 Nov p 52-55
          ecological niche. 'Is man here to stay?'
       human evolution, gene mutation, mutation, eugenics, 'man's genetic
                                                           1952 Feb p 68-74
         future'
       biology, evolution, philosophy of science, creativity, innovation in
                                                    1958 Sept p 100-113 [48]
         biology
       Darwinism, Wallace, science history, life and work of Alfred Russel
                                                           1959 Feb p 70-84
         Wallace
      genetic adaptation, human evolution, civilization, culture, human
                                                  1960 Sept p 206-217 [609]
        evolution in man-made environment
      fossil record, species extinction, glaciation, 'catastrophism', crises in the
                                                     1963 Feb p 76-92 [867]
        history of life
      genetic variation, gene mutation polymorphism, mollusk shells
        biological diversity, discontinuous variation
                                                   1975 Aug p 50-60 [1326]
     lek behavior, sage grouse, sexual behavior, lek mating behavior in sage
                                                 1978 May p 114-125 [1390]
        grouse
                                                             1952 June p 42
     observed in E coli
  Navaho, social values, Mormons, Zunis, Spanish-Americans agricultural
       system, comparative study of cultures in New Mexico
                                                          1956 July p 25-31
  navigation, interplanetary navigation, spacecraft, orbital motion, rocket
       communication technology, technology of space navigation
                                                        1960 Mar p 64-73
    Mariner 2, space exploration, telemetry, Venus, orbital motion high
                                                         1963 July p 70-84
       resolution studies of Venus
    pottery, human migration, Japan, Ecuador, New World archeology
                                                         1966 Jan p 28-35
      evidence for 3,000 B C trans-Pacific contact
    accelerometer, aircrast navigation, air transport, inertial navigation
      gyroscope, commercial adaptation of military and space technology
                                                       1970 Mar p 80-86
                                                         -- I the like
   see also interplanetary
                                                             ic weapons
 navigation systems, arms r
                                                 1977 Feb p 20-29 [691]
      tactical weapons, control systems
navigational accuracy, interplanetary navigation, Mars, spacecraft
                                                       1976 June p 58-74
     navigation, Viking missions
NBS. National Bureau of Standards
                                                          1954 Sept p 74
NBS computer, 20 000 germanium diodes
                                                          1953 Sept p 76
NBS demobilized, no military research
Nea Nikomedeia, Macedonia, Neolithic village clay figurines domestic
     animals, agricultural society, oldest Neolithic site in Europe
                                                      1965 Apr p 82-92
Neanderthal man, Homo sapiens, Charente skull, Galley Hill skull,
    human evolution, Swanscombe cranium antiquity of Homo expiens
                                                     1919 July p 16-19
```

human evolution, Neolithic archeology, Shanidar cave, layer by layer, 100,000 years occupation by man 1957 Nov p 58-64	metal artifacts, Turkey, metallurgy, copper, village-farming communities, man's first use of metals 7,500 B C
anthropology, human evolution, co-existence of Homo sapiens and Neanderthal man 1957 Dec p 89–96 [844]	1970 Mar p 50-56 woodhenges, henge monuments, Britain, Stonehenge
science history, Devon caves, human evolution, stone tools, idea of man's antiquity 1959 Nov p 167-176	1970 Nov p 30-38 Hoabinhian culture, agricultural revolution, Spirit Cave site, Thailand
fear East, Arabia, irrigation, trade, frankincense, myrrh, Biblical archeology, cultures of southern Arabia 1969 Dec p 36–46 [653]	1972 Apr p 34-41 [675] Greek prehistory, Stone Age civilization, Franchthi Cave
lear East archeology, Greek civilization, Nabataeans, Petra,	1976 June p 76–87 mousetrap in Iran 1967 May p 60
Hellenization of Arabs 1963 Oct p 94-102 ebulae, Milky Way, globular cluster stars, spiral arms, dust clouds,	earthworks, henges, Britain 1970 May p 58
galactic center, seeing a galaxy from the inside 1950 Feb p 30-39	Neolithic revolution, fire-making, human evolution, fire vegetation,
turbulence, galaxies, galactic clusters, hierarchy of turbulence in space 1952 June p 26-30	cooking, kiln, furnace, heat, introduction to single topic issue on heat 1954 Sept p 52-57
Clouds of Magellan, galactic center, globular cluster stars, Southern	Middle East 1964 Aug p 40
sky, Eta Carina, astronomical riches of the southern sky	Neolithic trade, sea-shell origins 1971 Feb p 47
1952 July p 46–37	Neolithic Turkey, metallurgy 1964 Dec p 62 Neolithic village, Macedonia, Nea Nikomedeia, clay figurines, domestic
galaxy, stellar evolution, massive stars, stellar associations, massive stars are short-lived 1956 Feb p 36-41	animals, agricultural society, oldest Neolithic site in Europe
planetary nebulae, spectroscopy, shells of luminous gas around hot,	1965 Apr p 82–92
dense stars 1963 Apr p 60-67	bone, hunting societies, Neolithic archeology, Suberde site in Turkey 1968 Nov p 96-106
Orion nebula, stellar evolution, ultraviolet radiation, hydrogen density, dating interstellar bodies 1965 Feb p 90-101	neonatal disorder, communication, crying, infant behavior, mother-child
galaxy structure, interstellar matter, Milky Way, stellar formation,	interaction, sound spectrogram 1974 Mar p 84–90 [558]
supernovae, galactic dust clouds, Gum Nebula, Bok globules 1972 Aug p 48-61	blindness, medical ethics, premature infants, medical researches, retrolental fibroplasia, 'blind babies' 1977 June p 100–107 [1361]
nebular hypothesis, comet, galactic formation, solar system evolution,	neonatal physiology, lung, breathing, respiration, first breath of newborn
stellar evolution 1975 Sept p 32-41	1963 Oct p 27–38
nebular luminosity, color photography, emission nebulae, interstellar gas, ionization 1974 Oct p 34–43	adipose tissue, hibernation, brown fat, thermoregulation, homeostasis, metabolism, cold adaptation, heat production in newborn animals,
Necker cube, depth reversal, optical illusion, reversing figures, visual	including man 1965 Aug p 62–65 [1018]
perception 1971 Dec p 62–71 [540]	neonatal respiratory distress syndrome, see hyaline membrane disease
negative aftereffects, afterimages, optical illusion, visual perception 1976 Dec p 42-48 [574]	nephron, kidney, counter-current exchange, urine, glomerulus, osmosis, anatomy and physiology of the kidney 1953 Jan p 40-48 [37]
negative feedback, feedback, control loop, servomechanisms, flyball	Neptune, orbital motion, solar system, Pluto, Pluto as escaped Neptunian
governor, positive feedback, ecological system, nervous system,	satellite 1959 Apr p 86-100 [295] outer planets, Pluto, Saturn, solar system, Uranus
economic system, automatic control, feedback concept 1952 Sept p 48-55	1975 Sept p 130–140
negative-income-tax experiment, income maintenance, work attitudes,	Nernst effect, Ettingshausen effect, Hall effect, Righi-Leduc effect,
work incentives, welfare reform 1972 Oct p 19-25 negative ion, particle accelerator, Van de Graaf generator, electrostatic	galvanomagnetism, thermomagnetism, science history, industrial technology, technological applications of 19th c discoveries
belt generator, charge-changing accelerator 1970 Aug p 24-33	1961 Dec p 124-136
negative numbers, mathematics, number theory, irrational numbers, complex numbers, matrix 1964 Sept p 50-59	nerve cells, giant axon, squid, nerve impulse, sodium pump, 'voltage
complex numbers, matrix 1964 Sept p 50-59 negative-pressure concept, cavitation, droplet-levitation technique,	clamp' technique 1958 Dec p 83–90 cell membrane, phospholipids, phosphatidic acid cycle, cell secretion,
liquids, tensile strength, surface tension 1972 Dec p 58–71	membrane transport potential 1965 Oct p 78-86 [1022]
negative resistance, electric field, Gunn effect, microwave emission, solid state physics, electronics, gallium arsenide, solid state microwave	brain circuitry, embryonic development, neuronal specificity, visual cortex, Xenopus laevis 1973 Feb p 26-35 [1265]
generation 1966 Aug p 22-31	leeches, neural organization, nerve physiology, nerve signals, nervous
negative viscosity, eddies, turbulence, wind, nonuniform flows rotating systems, viscosity 1970 July p 72-80	system, reflex arc, neuro motor synapse 1974 Jan p 38-48 [1287]
Neges desert, irrigation, desert ecology, agricultural technology, land	arc, 'hard-wiring' of nervous system 1959 Nov p 68-75 [72]
reclamation, Israel, desert reclamation 1960 Mar p 54-63	dendrites, synapse, postsynaptic potential olfactory bulb, retina,
nematic, liquid crystals, soap bubbles cholesteric, smectic 1964 Aug p 76-85	microcircuits in the nervous system 1978 Feb p 92–103 [1380] nerve conduction, grasshopper, muscle contraction, biomechanics of leap
nematocysts, Portuguese man of-war, social behavior, coelenterate	1958 Jan p 30-35
colonies 1960 Mar p 158-168 nematodes, fungi, carnivorous plants, soil molds, carnivorous fungi	cell communication, central nervous system, ganglion reflexes, neuroreceptors, retina nerve impulse, neurotransmitters, neural
1958 July p 67-72 [1094]	synapse, cytology, neuromuscular synapse how cells communicate
Nemrud Dagh, archeology, burnal site, funerary monument, Turkey, tomb of Antiochus I 1956 July p 38-44	1961 Sept p 209-220 [98]
Neolithic archeology, Stone Age hunters, organic relies peat bog	synapse, reflex arc, motor neuron, membrane potential inhibitory impulse, transmitter molecules, nerve excitation, activity at the
Jencho, Biblical archeology, 'world's oldest city' 1952 May p 20-25 1954 Apr p 76-82	neural synapse 1965 Jan p 56-66 (1001)
agricultural revolution tools slash-burn agriculture, cultural evolution.	axon, neurology, Schwann cell, axoplasm, membrane potential, perfusion technique, cell perfusion, structure of axonal tube,
Stone Age forestry and agronomy 1956 Mar p. 36-41	physiology of neural transmission, concentration gradients
Neanderthal man human evolution Shanidar cave, layer by layer, 100 000 years occupation by man 1957 Nov. p. 58-64	1966 Mar p. 74-82 (1038)
agricultural revolution, Fertile Crescent, human evolution, cultural	cardiac arrhythmia intensive care, coronary care unit, fibrillation coronary occlusion, electrocardiography, heart infarct
anthropology, 8000 B C domestication of plants and animals	
1960 Sent in 130_148 [605]	1969 July n. 10 27
Height culture, Turkes, 7000 B C 1961 Aug p 86-97	nerve conduction block, animal toxins tetrodotoxin saxitoxin poisons puffer fish, California news 1967 Aug. p. 60-71 (1969)
Anatolian plateau, Catal Hüyük 1964 Apr. p. 94-104 (620)	1968 July p 19-27 nerve conduction block, animal toxins tetrodotoxin saxifoxin poisons puffer fish, California newt 1967 Aug. p 60-71 [1080] nerve disorders, anemia brain damage, environmental toxins, blood
Anatolian plateau, Catal Hüvük 1964 Apr p 94-104 [620] obsidian trade, trace elements, Neolithic trade patterns deduced from obsidian finds	nerve conduction block, animal toxins tetrodotoxin saxitoxin poisons puffer fish, California newt 1967 Aug. p 60-71 [1080] nerve disorders, anemia brain damage, environmental toxins blood disorders kidney disorder lead poisoning 1971 Exp. p. 63-73 (1980)
Anatolian plateau, Catal Hüvük 1964 Apr. p. 94–104 [620] obsidian trade, trace elements, Neolithic trade pattern deduced from	1968 July p 19-27 nerve conduction block, animal toxins tetrodotoxin saxifoxin poisons puffer fish, California newt 1967 Aug. p 60-71 [1080] nerve disorders, anemia brain damage, environmental toxins, blood

15-

nerve conduction, compare, tellex are, monor neuton, membrane potential, inhibitory impolie, transmitter moderales, a firstly at the bette structure, for up circuitry, priceroscopy, nerve signals, ollamory awatern, at among techniques, Golgi stain, Siral stain ticural synapse 1985 Into p to expense nerve fibers, salamander, representation, fing, embryons, devel ipment, rife 1971 July p. 43-40 [1227] terrines therape, authorisitivity, authoriming disease, multiple scloreis, of noise libers in regeneration 1974 (A.C to 79 85 alleren, mechanismi in restout disease larger recognition 1949 July p. 16-19 1974 Jun - p. 50 nervous system, notive impulse, nervi excitation, inhibitory impulse, nerse gases, acetylch sline, acotylch slinesterace, nerse persons, estiticiaeth tiourismissi ular synapse, nourotransmitters, avetylcholine, dynamies exele, alkaloule, totins, fell al mechanoms at cell ilar level of inhibition 1943 Sept. p. 44-43 1959 Nov. p. 76-84 ply surface, end a rine system, respiration, nerve impulse musels cholinesterase inhibitions 1952 Okt p 38 contraction, whence, physiology 1900-1950 1959 Sept. p. 71-76 percentionally factor, in disautonomica 1976 Dec p 52 feedback, Control I sop, servomechanisms, flyball governor, positive nerve Impulse, nervous system, nerve excitation, whibitions impulse, feedback, negative feedback, ecological system, economic system. neuromuscular synapie, neuroteammutters, acetylcholine, ilynamica automatic centrol, feedback concept 1952 Sept. p. 43-55 of inhibition 194 Sept p 44 49 union, reflex are, motor neuron, interneuron, animal behavior, small well membrane, con patential, boological ride of potastium neuron systems as models for study 1967 May p 44-52 [1973] 1949 Aug p. 16-21 insect behave it, animal navigation, locust, insect flight, response to physiology, nervous system, endocrine system, respiration, maiele stimuli, schästoverca gregaria 1971 Aug. p. 74-81 [1231] contraction, science, physiologic 1969, 1950 1959 Sept p 71-76 fatty acids, feedback, hormony-like substances, drug therapy, squid, cephilopeds, grant axon 1951 Apr p 64 69 1971 Nov. p. 84-92 [1235] postarlandin action potential, refractory period, sodium ion potential, nodes of loocher, neural organization, nerve cells, nerve physiology, nene Ranvier, nerve membrane 1952 Nov. p. 55-65 [20] signals, reflex are, neuro motor synapse 1974 Jan. p. 38-45 [1237] acetylcholine, hormone, serotonin, synapse, em monal illness, cricket song, behavioral genetics, insect behavior neurotransmitters, central nervous watern, physiological psychology, 1974 Aug. p. 34-44 [1392] chemical mediation of nerve impulses 1957 Feb p \$6.04 becommitteen, walking, Edweard Muybridge photographs, control of giant axon, squid, sodium pump, nerve cells, 'soltage clamp' technique walking 1976 Dec. p. 72-86 [1346] 1955 Dec. p. 53-90 brain function, cyclic AMP, dopamine, endocrine system, messenger electric fishes, sodium ion potential, electroplaques, neurophysiology, molecules, neurotransmitters, L-DOPA treatment, Parkinson's synapse, acetylcholme, animal behavior, biolimmescence disease, 'second messengers', brain endocrinology 1977 Aug. p. 103-119 [1368] 1969 Oct p 115-124 cell communication, central nervous system, nerve conduction, neeting, animal migration, animal navigation, turtles, telemetry, sexual ganglion reflexes, neuroreceptors, retina, neurotransmitters, neural behavior, Chelonia mydas, green turtle, 1,400-mile journey 1965 May p. 78-86 [1010] synapse, cytology, neuromuscular synapse, how cells communicate 1961 Sept. p. 209-220 [98] net reproduction rate, demographic transition, population growth, world biological sciences, mathematics, self-reproducing machine, predation, population, zero population growth, birth rate, gross reproduction Turing machine, automata theory, mathematics in biology rate, extrapolation from world-statistics population model 1973 Mar. p. 15-23 [683] 1964 Sept. p. 148-164 facrimal gland, hypothalamus, tears, reflex, psychogenic and network analysis, nodes and branches, pipelines, powergrids, graph 1970 July p. 94-103 continuous tears 1964 Oct p. 78-86 theory, reliability analysis network hierarchies, communication technology, communication, twobacterial toxin, tetanus, botulism, paralysis, inhibitory impulse, way channels, computer-assisted instruction, information retrieval, synapse, motor neuron, Clostridium tetani, Clostridium botulinum 1968 Apr. p. 69-77 National Academy of Engineering study, 'Communications Technology for Urban Improvement', 'wired city' concept cell communication, genetic code, communication, hormonal action, 1972 Sept. p. 142-150 metabolic information 1972 Sept. p. 42-51 [1257] acetylcholine, synapse, neurotransmitters, nerve-musele synapse, network theory, communication networks, communication satellite. electronic switching, multiplexing, radio, communication, telephone chemical mediation of neuromuscular transmission 1972 Sept. p. 116-128 1977 Feb. p. 106-118 [1352] systems, television systems networks, complexity theory, switchboards, mathematics from networks nerve inhibition, central nervous system, reflex arc, neuromuscular 1978 June p. 114-124 [3013] control, muscle contraction, interneuron, motor neuron, stretch and switching systems neural organization, leeches, nerve cells, nerve physiology, nerve signals, reflex. Renshaw cell, synapse 1966 May p. 102-110 nervous system, reflex arc, neuro motor synapse nerve membrane, nerve impulse, action potential, refractory period, 1974 Jan. p. 38-48 [1287] sodium ion potential, nodes of Ranvier 1952 Nov. p. 55-65 [20] neural synapse, cell communication, central nervous system, nerve nerve-muscle synapse, acetylcholine, nerve impulse, synapse, conduction, ganglion reflexes industricularly rather and the pulse neurotransmitters, chemical mediation of neuromuscular neurotransmitters, cytology, neuroma, all 1 syrapso, how con-1977 Feb. p. 106-118 [1352] transmission 1961 Sept. p. 209-220 [98] nerve network, locust, muscle contraction, insect flight, flight control communicate neuro motor synapse, leeches, neural organization, nerve cells, nerve 1968 May p. 83-90 system, inhibitory impulse physiology, nerve signals, nervous system, reflex arc nerve physiology, leeches, neural organization, nerve cells, nerve signals, 1974 Jan. p. 38-48 [1287] nervous system, reflex arc, neuro motor synapse neurohumoral factors, hormone, hypothalamic hormone, luteinizing 1974 Jan. p. 38-48 [1287] hormone, pituitary control, thyroid-stimulating hormone, TSH acetylcholine, adrenalin, catecholamines, dopamine, drug effects, 1972 Nov. p. 24-33 [1260] 1974 June p. 58-71 [1297] neurotransmitters, noradrenaline neurology, blood-brain barrier, epilepsy, brain metabolism, nerve poisons, algal bloom, Dinoflagellata, marine ecology, acetylcholine, neurophysiology, physiology of the barrier and its reinforcement 1958 Aug. p. 92-98 poisonous tide 1956 Feb. p. 101-106 acetylcholine, acetylcholinesterase, nerve gases, citric-acid cycle, axon, nerve conduction, Schwann cell, axoplasm, membrane potential, alkaloids, toxins, lethal mechanisms at cellular level perfusion technique, cell perfusion, structure of axonal tube. 1959 Nov. p. 76-84 physiology of neural transmission, concentration gradients nerve regeneration, vision, learning, visual perception, embryonic 1966 Mar. p. 74-82 [1038] development, inborn 'hard wiring' of nerve circuitry auditory beats, brain, hearing, sound vibrations, auditory perception 1956 May p. 48-52 [1090] 1973 Oct. p. 94-102 [1282] nerve signals, brain circuitry, microscopy, nerve structure, olfactory neuromuscular control, central nervous system, reflex arc, muscle system, staining techniques, Golgi stain, Nissl stain contraction, nerve inhibition, interneuron, motor neuron, stretch 1971 July p. 48-60 [1227] 1966 May p. 102-110 reflex, Renshaw cell, synapse brain circuitry, mammalian brain, sensory systems, stimulus neuromuscular synapse, nervous system, nerve impulse, nerve excitation, localization, visual perception, superior colliculus in integration at inhibitory impulse, neurotransmitters, acetylcholine, dynamics of

1972 Dec. p. 72-82 [553]

inhibition

leeches, neural organization, nerve cells, nerve physiology, nervous system, reflex arc, neuro motor synapse 1974 Jan. p. 38-48 [1287]

1948 Sept. p. 44-49

brain function

system, reflex arc, neuro motor synapse

cell communication, central nervous system, nerve conduction,	neuroreceptors, cell communication, central nervous system, nerve
ganglion reflexes, neuroreceptors, retina, nerve impulse,	conduction, ganglion reflexes, retina, nerve impulse,
neurotransmitters, neural synapse, cytology, how cells communicate	neurotransmitters, neural synapse, cytology, neuromuscular synapse,
1961 Sept p 209–220 [98]	how cells communicate 1961 Sept p 209–220 [98]
neuronal networks, creativity, neurophysiology, imagination, cerebral	neurosecretor, system, amphibian, metamorphosis, frog, thyroxin, pituitary gland, hypothalamus, hormone, chemistry of amphibian
cortex, physiology of imagination 1958 Sept p 135-146 [65]	
brain, brain circuitry, cerebellar cortex, Purkinje cells, mossy fibers	metamorphosis 1966 May p 76-88 [1042] neurosis, learning, stress, psychotherapy, experimental neuroses in cats
1975 Jan p 56–71 [1312]	1950 Mar p 38–43 [443]
neuronal response, contour perception, contrast perception, Mach bands,	conditioned reflex, neurosis, operant conditioning, Pavlov, psychology,
optical illusion, visual perception, Craik-O'Brien effect 1972 June p 90-101 [543]	thyroidectomy, stress, emotional behavior, conditioned reflex is
neuronal specificity, brain circuitry, embryonic development, nerve cells,	shown to be a neurosis 1954 Jan p 48–57 [418]
visual cortex, Xenopus laevis 1973 Feb p 26–35 [1265]	conditioned reflex, operant conditioning, Pavlov, psychology,
neurones, glial cells, learning theory, memory, RNA, brain, molecular	thyroidectomy, stress, emotional behavior, neurosis, conditioned
theory of memory 1961 Dec p 62–70 [134]	reflex is shown to be a neurosis 1954 Jan p 48-57 [418]
aplysia, behavior, learning, memory, synapse, heterosynaptic	schizophrenia, emotional illness, psychoanalysis, psychiatry, psychosis,
facilitation, memory and learning at nerve-cell level	double bind, taxonomy of emotional illness, family therapy
1970 July p 57–70 [1182]	1962 Aug p 65–74 [468]
neuropharmacology, anesthesia, pain, cocaine, procaine, surgery, medical	experimental in rats 1950 Dec p 32
research, pharmacology, psychiatry, research in pain suppression	neurospora, mutation, natural selection, gene expression, Mendelian
1957 Jan p 70-82	inheritance, genetic disease, tryptophan-macin relation, one gene- one enzyme hypothesis, selection for defect 1948 Sept p 30–39 [1]
neurophysiology, blood-brain barrier, epilepsy, brain metabolism,	neurotransmitters, nervous system, nerve impulse, nerve excitation,
neurology, physiology of the barrier and its reinforcement 1956 Feb p 101106	inhibitory impulse, neuromuscular synapse, acetylcholine, dynamics
insect metamorphosis, silkworm, insect behavior, cocoon, cocoon	of inhibition 1948 Sept p 44-49
record of silkworm spinning movements 1956 Apr p 131–140	acetylcholine, hormone, nerve impulse, serotonin, synapse, emotional
brain, learning, neuropsychology, pleasure centers, hypothalamus,	illness, central nervous system, physiological psychology, chemical
electrode stimulation of pleasure centers in rat brain	mediation of nerve impulses 1957 Feb p 86-94
1956 Oct p 105–116 [30]	cell communication, central nervous system, nerve conduction,
obesity, human nutrition, hunger, appetite, physiological mechanisms	ganglion reflexes, neuroreceptors, retina, nerve impulse, neural
of overeating 1956 Nov p 108-116	synapse, cytology, neuromuscular synapse, how cells communicate
central nervous system, medulla, reticular formation, brain, perception,	1961 Sept p 209–220 [98]
motor reflex, attention and orienting mechanism in brain	animal behavior, brain stimulation, hormone, drive activation by
1957 May p 54–60 [66]	injection of chemicals into rat brain 1964 June p 60–68 [485] brain function, carbohydrate, serotonin, human nutrition, tryptophan,
auxins, serotonin, LSD, comparative physiology, physiological function of serotonin 1957 Dec p 52-56	feedback 1974 Feb p 84–91 [1291]
brain, cerebellum, central nervous system, cerebrum cerebral-	acetylcholine, adrenalin, catecholamines, dopamine, drug effects, nerve
cerebellar coordination 1958 Aug p 84–90 [38]	physiology, noradrenaline 1974 June p 58-71 [1297]
creativity, imagination, neuronal networks, cerebral cortex, physiology	acetylcholine, nerve impulse, synapse, nerve-muscle synapse, chemical
of imagination 1958 Sept p 135–146 [65]	mediation of neuromuscular transmission
electric fishes, sodium ion potential, electroplaques, synapse,	1977 Feb p 106-118 [1352]
acetylcholine, animal behavior, nerve impulse, bioluminescence	brain function, cyclic AMP, dopamine, endocrine system, messenger
1960 Oct p 115-124	molecules, nervous system, L-DOPA treatment, Parkinson's disease,
animal behavior, mollusks, central nervous system 1971 Feb p 68-75 [1212]	'second messengers', brain endocrinology 1977 Aug p 108-119 [1368]
fortification illusions, migraine headaches, optical illusion	neuston, carbon dioxide, marine life, microlayer oceanography, ocean
1971 May p 88–96 [536]	surface, rainwater composition, surfactant 1974 May p 62–77 [913]
binocular vision, depth perception, eye, optic chiasm, stereopsis, visual	neutralization test, virology, complement-fixation test, hemagglutination
cortex 1972 Aug p 84–95 [1255]	test 1955 Mar p 60-70
animal behavior, escape response, toad, visual perception, visually	neutrino, elementary particles, electron, proton, particle counters
guided behavior 1974 Mar p 34-42 [1293]	neutron, positron, mesons, photon, particle accelerator, nuclear
brain circuitry, eye movement, pons, visual cortex, visual processing,	binding force, 'Meson Song' 1948 June p 26–39
visual cells in pons 1976 Nov p 90-98 eye motion-perception system, moving-target perception, visual	elementary particles, neutron decay, alpha decay, beta decay, setting trap for detection of theoretical particle 1956 Jan p 58-68
perception system, moving-target perception, visual perception 1977 Jan p 60-73 [575]	trap for detection of theoretical particle 1956 Jan p 58–68 astrophysics, high-energy physics neutrino astronomy, neutrino
transducers in the skin 1959 Nov p 91	'telescope' 1962 Aug p 90–98 [283]
neuropsychology, brain, learning, neurophysiology, pleasure centers.	beta decay, particle accelerator, muon neutrino, a particle interaction,
hypothalamus, electrode stimulation of pleasure centers in rat brain	'weak' force, experiment demonstrating existence of muon neutrino
1956 Oct n 105–116 (30)	1963 Mar p. 60-70 (324)
electroencephalography, perceptual isolation, hallucination, boredom,	cosmic radiation neutrinos solar neutrinos, intermediate vector boson
sensory deprivation, effect of exposure to monotonous environment	scintillation counter boson, detection of natural neutrinos
kinesthetic memory, spatial orientation, visual perception, perception	1966 Feb p 40-48 cosmic radiation, solar radiation, solar neutrino detector,
of the upright 1950 Feb in 50.56 [410]	thermonuclear reaction, neutrino detection experiment and
motion perception optical illusion, relative vs absolute motion	
1050 1010 = 56 60 (400)	solar corona solar energy, solar magnetism, Sun, sunspots
pain, perception, psychology, cultural influence on pain perception	1975 Sept p 42–50
attention mechanism, speech perception, hearing cochlea, phonetics,	captured, 1953 Nov p 50
1067 Apr = 142 161 [467]	detection and de
human anatomy, sensors perception eve car Decorates 17th a	detection proposal 1965 Feb p 53
approach to human perception mechanistic hypothesis	solar neutrinos mucara
1064 16-1 - 100 114 (104)	neutrino astronomy, astrophysics neutrino, high-energy physics neutrino
tests but he will be settled sensory organs ommatidia cytology.	
1961 Sept p 222-238 [99]	mediant reta decity, pupple chamber experiments, both
	physics hadrons particle accelerator, positron 1973 Aug. p. 30–38

1948 Sept p 44-49

nerve conduction, compen reflectate, in our printer a correlegion potential, inhibitory impulse transmitter in deciles, a tissis at ifnerve stelleture, Franciscultiv mosto copy, resve lignals officiery vectorie sta hir z trebnijett., Golgestain, Nicolstain neural ways-1965 Jan p 3% et [1001] nerve fibers, salamander, regeneration, frog emberous, development, not-1971 July p 42 (0 [1227] nervous disease, auto cultivity, a its immune diea e, multipleschmis, of nerve libers in regeneration 1958 that p 23 84 all they meet anim, in recount theate farget freezentnen 1949 July p 15-19 1974 Jacp 50 mersions system, norse impolio, norse excitition inhibitory impole, nerse gases, acers h h dine, acers h differenterate, norse parama città a id trateser in utar votespar, troutoteansmitters, a.etyl, holine, dynamia excle, alkaloule forms lethal mechanisms at cellular level 1944 Sept p 41-49 1959 Nov. p. 76 81 physiology, end krine system, respiration, nerve impulse, moide cholinesters embiliators 1997 (XI p. 15 nerve-growth factor, in disautorionna contriction science, physiology 1900-1950 1959 Sept p 71-76 1971 Dec p 52 perse impulse, nervous system, nerve excitation, inhibitory impulse feedback control loop, wryon rehamsms, flyball governor, posine fredback, negative feedback, ecological system, economic system neuromuscular esuapie, neurotrarimitters a etelebiliter, den mico automatic control, feedback concept of inhibition in 1952 Sept p 42-55 1945 Sept p 41 4) vis in, reflex are, motor neuron, interneuron, animal behavior, small cell membrane, i'm potential, b. il speal rol-of potamini neuron systems as models for study 1967 May p 44-52 [1073] 1917 Aug p 16 21 ment behavior, animal navization, locust, insect flight, response to physiology, nervous system, end wine system respiration mustle stimuli, sel intolerca pregana 1971 Aug p 74-81 [1231] contraction, science, physiology 1980-1986 1950 Sept. p. 71-76 fatty acids, feedback, florm me-like substances, drug therapy, sand, explisiopeds, grant axin 1951 Apr p 64 (0 printaglandin 1971 Nov. p 84-92 [1235] action potential refractors period, sodium i in potential, nodes of leaches, neutal organization, nerve cells, nerve physiology, nerve Ranvier, nerve membrane 1992 Nov p 55 65 [20] nignals, reflex arc, neuro motor synapse 1974 Jan p 38-48 [1287] acetyleboline, horm me, scrotonin, syn spie, em iti mal illness, encket some, behavioral genetics, insect behavior neurotransmitters, central nervous is stem, plis is slow, all psychologis 1974 Aug. p 34-44 [1302] chemical mediation of nerve impulses 1957 Ich p 56.91 locomotion, walking, I diseard Maybridge photographs, control of giant axon, squid, sodium pump, nerve cells, 'soltisee clamp' technique walking 1976 Dec. p 72-86 [1346] 1958 Dec p 83 90 brain function, cyclic AMP, dopamine, endocrine system, messenger electric fisher sodium ion potential, electroplaques, neurophysiologis, molecules, neurotransmitters, L-DOPA treatment, Parkinson's synapse, acetylcholine, animal behavior, bioluminescence disease, 'second messengers', brain endocrinology 1960 Oct p 115-124 1977 Aug. p 108-119 [1368] cell communication, central nervous system, nerve conduction, nesting, animal migration, animal navigation, turiles, telemetry, sexual ganglion reflexes, neuroreceptors, retina, neurotransmitters, neural behavior, Chelonia mydas, green turtle, 1,400-mile journey synapse, cytology, neuromuscular synapse, how cells communicate 1965 May p 78-86 [1010] 1961 Sept p 209-220 [98] net reproduction rate, demographic transition, population growth, world biological wiences, mathematics, self-reproducing machine, predation, population, zero population growth, birth rate, gross reproduction Turing machine, automata theory, mathematics in biology rate, extrapolation from world-statistics population model 1973 Mar. p. 15-23 [683] 1964 Sept. p. 148-164 lacrimal gland, hypothalamus, tears, reflex, psychogenic and network analysis, nodes and branches, pipelines, powergrids, graph 1970 July p 94-103 continuous tears 1964 Oct p 78 86 theory, reliability analysis bacterial toxin, tetanus, botulism, paralysis, inhibitory impulse, network hierarchies, communication technology, communication, twoway channels, computer-assisted instruction, information retneral, synapse, motor neuron. Clostridium tetani, Clostridium botulinum 1968 Apr. p 69-77 National Academy of Engineering study, 'Communications cell communication, genetic code, communication, hormonal action, Technology for Urban Improvement', 'wired city' concept 1972 Sept. p 142-150 metabolic information 1972 Sept p 42-51 [1257] network theory, communication networks, communication satellite, acetylcholine, synapse, neurotransmitters, nerve-muscle synapse, chemical mediation of neuromuscular transmission electronic switching, multiplexing, radio, communication, telephone 1972 Sept p 116-128 1977 Feb. p. 106-118 [1352] systems, television systems networks, complexity theory, switchboards, mathematics from networks nerve inhibition, central nervous system, reflex are, neuromuscular 1978 June p 114-124 [3013] control, muscle contraction, interneuron, motor neuron, stretch and switching systems neural organization, leeches, nerve cells, nerve physiology, nerve signals. reflex, Renshaw cell, synapse 1966 May p 102-110 nerse membrane, nerve impulse, action potential, refractory period, nervous system, reflex arc, neuro motor synapse 1974 Jan p 38-48 [1287] sodium ion potential, nodes of Ranvier 1952 Nov. p. 55-65 [20] neural synapse, cell communication, central nervous system, nerve nerve-muscle synapse, acetylcholine, nerve impulse, synapse, conduction, ganglion reflexes, neuroreceptors, retina, nerve impulse, neurotransmitters, chemical mediation of neuromuscular 1977 Feb. p. 106-118 [1352] neurotransmitters, cytology, neuromuscular synapse, how cells transmission 1961 Sept p 209-220 [98] nerve network, locust, muscle contraction, insect flight, flight control communicate neuro motor synapse, leeches, neural organization, nerve cells, nerve system, inhibitory impulse 1968 May p. 83-90 physiology, nerve signals, nervous system, reflex arc nerve physiology, leeches, neural organization, nerve cells, nerve signals, 1974 Jan p 38-48 [1287] nervous system, reflex arc, neuro motor synapse neurohumoral factors, hormone, hypothalamic hormone, luteinizing 1974 Jan. p. 38-48 [1287] hormone, pituitary control, thyroid-stimulating hormone, TSH acetylcholine, adrenalin, catecholamines, dopamine, drug effects, 1972 Nov p 24-33 [1260] 1974 June p. 58-71 [1297] neurotransmitters, noradrenaline nerve poisons, algal bloom, Dinoflagellata, marine ecology, acetylcholine, neurology, blood-brain barrier, epilepsy, brain metabolism. neurophysiology, physiology of the barrier and its reinforcement 1958 Aug. p 92-98 poisonous tide 1956 Feb p 101-106 acetylcholine, acetylcholinesterase, nerve gases, citric-acid cycle, axon, nerve conduction, Schwann cell, axoplasm, membrane potential, alkaloids, toxins, lethal mechanisms at cellular level perfusion technique, cell perfusion, structure of axonal tube, 1959 Nov. p. 76-84 physiology of neural transmission, concentration gradients nerve regeneration, vision, learning, visual perception, embryonic 1966 Mar p 74-82 [1038] development, inborn 'hard wiring' of nerve circuitry auditory beats, brain, hearing, sound vibrations, auditory perception 1956 May p. 48-52 [1090] 1973 Oct p 94-102 [1282] nerve signals, brain circuitry, microscopy, nerve structure, olfactory neuromuscular control, central nervous system, reflex arc. muscle system, staining techniques, Golgi stain, Nissl stain contraction, nerve inhibition, interneuron, motor neuron, stretch 1971 July p. 48-60 [1227] 1966 May p 102-110 reflex, Renshaw cell, synapse brain circuitry, mammalian brain, sensory systems, stimulus neuromuscular synapse, nervous system, nerve impulse, nerve excitation, localization, visual perception, superior colliculus in integration at inhibitory impulse, neurotransmitters, acetylcholine, dynamics of 1972 Dec. p. 72-82 [553]

inhibition

brain function

leeches, neural organization, nerve cells, nerve physiology, nervous

system, reflex arc, neuro motor synapse

1974 Jan. p. 38-48 [1287]

30,000-year-old artifact	1960 Sept p 100	nitrogen fertilizer, energy cycle, nutrient cycle, soil structure, food and	0.0
Mississippi Valley solar observatory	1964 Sept p 84	agriculture, food chain 1976 Sept p 74	-86
Mexican and Canadian sites	1967 June p 57	nitrogen fixation, heat, chemistry, regenerative furnace, temperature limits, high temperatures chemistry 1954 Sept p 109-	110
Marmes man oldest North American(7)	1968 June p 44	limits, high temperatures chemistry 1954 Sept p 109- bacteria, nitrogen cycle, blue-green algae, Haber process, biosphere,	117
13,600-year-old birovac	1968 Oct p 61 1972 Jan p 51	nitrate, legumes, eutrophication 1970 Sept p 136–146 [11	94]
first settlers	1972 Jan p 31 1973 May p 44	forestry, ecosystem, resource management, runoff, erosion, watershe	ď,
role of man in large-mammal extinctions see also Amerindian, Aztec civilization, Folsom		deforestation, deforestation experiment 1970 Oct p 92-101 [12	.02]
New York, local government, cities, metropolitan r	egion, central city,	legumes, agronomy, soybean products, plant protein	
suburbs, Northeast Corridor, regional planni	ing	1974 Feb p 14	-21
	1965 Sept p 134-148	ammonia manufacture, biological nitrogen fixation, Haber process,	70
New Zealand flightless birds, moas, extinction, ev-	olution, hunting	metallo-organic process 1974 Oct p 64 algae, bacteria, legumes, nitrogenase, genetic engineering, Haber	-70
	1954 Feb p 84-90	process, rhizobium, legumes, symbiosis, rutrogenase, biological	
Newcomen engine, steam engine, mine drainage, Watt, pumps, Industrial Revolution, origins	of steam engine	nitrogen fixation 1977 Mar p 68	-81
Watt, pumps, industrial Revolution, origins	1964 Jan p 98–107	nitrogen gas, product of mamalian metabolism 1968 July p	50
Newfoundland, Viking site	1964 Jan p 56	nitrogen mustard, cancer therapy, radiation damage, carcinogenesis,	
newspapers, content analysis, military secrecy, Co	ongressional	mutation, nuclear medicine, chemical imitation of radiation injury	
investigation, 'Condon case', content analyst	is of newspaper coverage	1960 Jan p 99-	108
of political attacks on E. U. Condon	1949 Feb p 16-21	nitrogenase, algae, bacteria, legumes, nitrogen fixation, nitrogenase, genetic engineering, Haber process, rhizobium, legumes, symbiosi	c
newt, regeneration, cell differentiation, cockroad	h, embryo-grait	biological nitrogen fixation 1977 Mar p 68	
experiments, embryonic development, biolo	1977 July p 66–81 [1363]	algae, bacteria, legumes, nitrogen fixation, genetic engineering, Habe	
Newton, calculus, mechanics, optics, life and wo	rk of Isaac Newton	process, rhizobium, legumes, symbiosis, nitrogenase, biological	
remon, calculas, medianes, optios, includes	1955 Dec p 73-80	nitrogen fixation 1977 Mar p 68	-81
as sleuth	1958 Sept p 96	Nixie tubes, integrated circuits, light-emitting diode, liquid crystals,	
insight into private life	1963 Sept p 88	numeric displays 1973 June p 64	~/3
as data fudger	1973 Apr p 44	NOAA: National Ocean and Atmosphere Administration NOAA, US ocean and atmosphere agency 1970 Dec p	ΔN
Newton body, rheology, flow of matter, Hooke b	959 Dec p 122–138 [268]	Nobel prizes, science history, 1949 awards in physics, to Hideki	-10
Newton's third law, cardiology, medical diagnosi		Yukawa, in chemistry, to William F Giaque, in physiology and	
	1958 Feb p 89–95	medicine, to Walter R Hess, Antonio Moniz, for peace, to John	
Nichol prism, animal navigation, polarized light,	, dichroic material,	Boyd-Orr 1949 Dec p 11	
horseshoe crab	1955 July p 88–94	education, university education, sociology, scientific careers, sociolo of the Nobel prizes 1967 Nov p 25	
nickel plating, by chemical bath nidation, contraception, birth control, reproduct	1953 May p 56	of the Nobel prizes 1967 Nov p 25 in physics, to Murray Gell-mann, in chemistry, to D H R. Baron,	-33
fertilization	1954 Apr p 31-34	Odd Hassel, in physiology and medicine, to Max Delbruck, Alfred	eđ
fetus as transplant, histocompatability, immu		D Hershey, Salvador Luna, in economics, to Ragnar Frisch, Jan	
immunological privilege, reproduction, troj	phoblast, placenta	Tinbergen 1969 Dec p 48	-50
	1974 Apr p 36-46	in physics, to P M S Blackett, in chemistry, to Arne Tiselius, in	~
Nigeria, industrial technology, economic develo		Physiology and medicine, to Paul H Muller 1948 Dec p in physics, to Cecil F Powell, in chemistry, to Kurt Adler, O P H	20
transfer, tribal politics economic developn region	1963 Sept p 168–184	Diels, in physiology and medicine, to Phillip S Hench, Edward (-
night blindness, electroretinography, vitamin A		Kendall, Tadeus Reichstein 1950 Dec p	
rhodopsin bright-light exposure, retinitis p		in physics, to John D Cockroft, E.T.S Walton, in chemistry, to	
	1966 Oct p 78-84 [1053]	Edwin M McMillan, Glenn T Seaborg, in physiology and medici	
mightglow, Earth aurora airglow, corpuscular s aurora and airglow	1955 Sept p 140-150	to Max Theiler 1951 Dec p in physics, to Felix Bloch, Edward M Purcell, in chemistry, to AJ	
Nile crocodile, animal behavior, crocodile, pare		Martin, R L M Synge, in physiology and medicine, to Selman A	
part of the second part of the s	1976 Apr p 114-124	Waksman 1952 Jan p	
Nile prehistory, climate, cultural evolution, hur	iter-gatherer societies,	in physics, to Fritz Zernike, in chemistry, to Herrmann Standinger	,
Paleolithic settlements, stone tools	1976 Aug p 30-38	in physiology and medicine, to Hans A Krebs Fritz A Lipmann	
Nile valley, Fgyptian civilization Sakkara, burn the first pharaohs	1957 July p 106-116	in physics, to Max Born, Walther Bothke, in chemistry, to Linus C	48
niobium allovs, electromagnetism magnetism	superconductors, proton-	Pauling in physiology and medicine, to John F Enders, Frederic	-1
beam focusing, generation of intense magi		C Robbins, Thomas H Weller 1954 Dec p	
materials for a control of the contr	1967 Mar p 114-123	in physics, to Polykarp Kush, Willis E. Lamb, in chemistry, to	
mitrate, breteria nitrogen cycle, nitrogen fixati Haber process biosphere, legumes eutrop	on, blue-green algae,	Vincent du Vigneaud, in physiology and medicine, to AHT	
	970 Sept p 136–146 [1194]	Theorett 1955 Dec. p in physics to John Bardeen, Walter H Brattain, William Shockley,	46
nitrifiers, nitrogen biological nitrogen fixation	ammonia, denitrifiers	chemistry, to Cyrrl N Hinshelwood Nikolai N Semenov, in	ın
nitrogen cycle legumes	1953 Mar p 38-42	physiology and medicine, to Andre F Cournand, Werner	
nitrogen, biological nitrogen fixation, ammoni		Forssmann, Dickinson W Richards 1956 Dec p	52
nitrogen evele, legumes atmosphere, escape velocity, photosynthesis	1953 Mar p 38-42	in physics, to Tsung-Dao Lee, Chen Ning Yang, in chemistry, to	
erystallization oxygen origin and evoluti	on of Earth's atmosphere	Alexander R Todd, in physiology and medicine, to Daniel Boyel	
	1953 Aug p 82-86 [824]	age of greatest productivity 1957 Dec p	46
curbon dioxide laser infrared radiation ga dioxide laser		in physics to Pavel Cerenkov, Ilya Frank, Igor J. Tamm, in chemist	try.
breeder reactor use of heavy nitrogen in rea	1968 Aug p 22-33 actor 1956 Feb p 52	to Frederic Sanger, in physiology and medicine, to George W	-
te ictor fixed nitrogen	1956 Dec. n. 54	Beadle, Edward L. Tatum, Joshua Lederberg 1958 Dec. p in physics, to Owen Chamberlain, Emilio G Segré, in chemistry, to	52
nitrogen er de, nitrogen biological nitrogen fi	vation ammonia, nitrifiers	Jaroslav Heyrovsky, in physiology and medicine, to Arthur	
tienittiiets legumes	1953 Mar n 38-42	Nomberg, Severo Ochoa 1950 Dec. 5	78
nurnic legumes entrophication	1970 Sent n. 136-146 (1104)	in physics, to Donald A Glazer, in chemistry to Willard F Libb.	
I rest communities lichens ecolor's algae	loog chain steeren	physiology and medicine to Mac Farlane Burnet, Peter B Meda	W 37
Constems	1973 June p 74-80 [1274]	1960 Dec p	74

particle accelerator, National Accelerator Labo synchrotron	ratory, proton beam,
neutrino interactions, electromagnetic force, partic	1074 17-1 70 00
theory, 'weak' force, neutral-weak-current int	cle interaction, gauge
y, see rockey now and weak-current mil	1974 Dec p 108-119
neutrino scarcity, implications for solar fusion	1060 Tuly - 40
neutron, elementary particles, electron, proton, pa	rticle counters
positron, mesons, photon, neutrino, particle a	ccelerator, nuclear
binding force, 'Meson Song'	1948 June n 26 20
hadron, neutron diffraction, the neutron as nucl of physics	ear particle and as tool
	1951 Oct p 44-53
electromagnetic force, nuclear forces, proton, mo scattering, high-energy physics, fundamental i	sons, particle
the nucleus together?	1953 Sept p 58-63
photographic emulsion, particle tracks, cosmic ra	adiation proton
electron, characteristic 'signatures' of particles	1956 May n 40 47
crystal structure, radiation, nuclear fission, solid	state physics, effects
of radiation on solids 19	56 Aug p 76-84 12451
atomic nucleus, shell model, optical model, high-	energy physics, liquid-
drop model, charge exchange, spin-orbit force, proton, structure of the nucleus	resonance 'particles',
nuclear fission, heavy nuclei, liquid-drop model,	1959 Jan p 75–82
model, fission fragments	1965 Aug p 49–59
atoms, elementary particles, electron, proton, ma	tter, structure of
'ordinary matter'	1967 May n 126-134
alpha clustering, alpha particles, atomic nucleus,	elementary particles
nuclear clustering, nuclear forces, nuclear surfa	
neummatured dance	1972 Oct p 100-108
asymmetrical decay magnetism un-explained	1957 Sept p 56
photon, weak as well as strong interaction	1958 Feb p 48 1965 Feb p 51
wave-particle duality in gravitational field	1976 Jan p 61
neutron activation, microanalysis, trace elements, ra	dionuclides, decay
properties	1967 Apr p 68-82
sensitive detector	1952 Oct p 40
arsenic murder revealed	1969 Mar p 52
neutron beam, fission reactor, monochromator, neut neutron flux, reactor as research instrument	ron omraction,
· · · · · · · · · · · · · · · · · · ·	3 Aug p 23-29 [219]
neutron-beam-scattering technique, cell structure, pro	otein synthesis,
ribosome, structure of ribosome	1976 Oct p 44-54
neutron bomb, arms race, atomic weapons, tactical n	uclear weapons, US
decision to develop and deploy enhanced radiat	May p 44–51 [3007]
finas congressional enthusiasts	1961 Aug p 60
neutron cross sections, atomic nucleus, nuclear struct	ure, 'model atom',
'cloudy crystal ball'	1955 Dec p 84–91
neutron decay, neutrino, elementary particles, alpha o	lecay, beta decay,
setting trap for detection of theoretical particle neutron diffraction, neutron, hadron, the neutron as n	uclear particle and
as tool of physics	1951 Oct p 44-53
fission reactor, neutron beam, monochromator, neu	itron flux, reactor as
research instrument 1953	Aug p 23-29 [219]
neutron-electron 'atom', temporary bound species neutron flux, fission reactor, neutron beam, monochro	1969 Dec p 54
diffraction, reactor as research instrument 1953	Aug p 23-29 [219]
neutron radiography, thermal neutrons, fission reactor	, nondestructive
terting neutrons as inspection tool 1962 No	ov p 107–119 [287]
neutron scattering, helium, supercooling, superfluidity	, fountain effect,
'quasi particles' model of liquid helium 1960 No	1950 Jan p 29
neutron source, portable pile neutron spectroscopy, atomic nucleus, spectroscopy, fa	
and a second structure of atomic nucleus	1904 Mai p 19-00
Cak Mahula Yaray astronomy, sychiou	ron radiation,
Scorpius, X-ray astronomy by rocket-borne instru	1964 June p 36–45
	momentum
to a base departs granatational collapse, angular i	
pulsar, white dwarfs, gravitational collapse, angular	
pulsar, white dwarfs, gravitational collapse, angular i 'lighthouse' model proposed Crab Nebula, pulsar, radio source, stellar evolution,	gravitational
pulsar, white dwarfs, gravitational collapse, angular i 'lighthouse' model proposed Crab Nebula, pulsar, radio source, stellar evolution,	gravnational 1971 Jan p 48–60 stars white
pulsar, white dwarfs, gravitational collapse, angular in the lighthouse model proposed. Crab Nebula, pulsar, radio source, stellar evolution, collapse, angular momentum gravitational collapse pulsar, stellar evolution solid	stars white
pulsar, white dwarfs, gravitational collapse, angular in lighthouse model proposed. Crab Nebula, pulsar, radio source, stellar evolution, collapse, angular momentum gravitational collapse pulsar, stellar evolution solid dwarfs, ultradense matter. Italia gravitational wayes, pulsar, relativity theory.	stars white
pulsar, white dwarfs, gravitational collapse, angular in the lighthouse' model proposed. Crab Nebula, pulsar, radio source, stellar evolution, collapse, angular momentum gravitational collapse pulsar, stellar evolution solid dwarfs, ultradense matter black hole, gravitational waves, pulsar, relativity the collapse pulsar, stellar evolution solid dwarfs, ultradense matter black hole, gravitational waves, pulsar, relativity the collapse.	stars white 971 Feb p 24-31 orv. Red Giant 972 May p 38-46
pulsar, white dwarfs, gravitational collapse, angular in the lighthouse' model proposed. Crab Nebula, pulsar, radio source, stellar evolution, collapse, angular momentum gravitational collapse pulsar, stellar evolution solid dwarfs, ultradense matter. black hole, gravitational waves, pulsar, relativity the stars, rotational energy, white dwarfs.	stars white 971 Feb p 24-31 orv. Red Giant 972 May p 38-46

black hole, interstellar gas, magnetohydro	dynamics, pulsar, stellar
evolution, supernovae, X-ray sources	1975 Dec n 38-36
black hole, cosmic radiation, gamma-ray a	
astronomy, Cygnus X-1 black hole, binary stars, galactic energetics	1976 Oct p 66-794
stellar evolution, X-ray stars, astronomy	s, grodurar cruster stars
	1977 Oct p 42-55 [385]
neutron structure, high-energy physics, proto	n model, quark, scattering
experiments, 'strong' force, virtual partic	eles 1971 June p 60-77
New Covenanters, Dead Sea scrolls, Judaism, Qumran site	Biblical archeology, 1971 Nov p 72-81
New Guinea, animal husbandry, ecosystem, e	nergy cycle agricultural
system, power, tropical agriculture	1971 Sept p 116-132 [666]
New World archeology, riparian sites, public v	works, reservoir dam
building, crisis in U S archeology	1948 Dec p 12-17
corn, genetics, teosinte, tripsacum, pod corr plant genetic experiment and archeologic	al finds point to pool com
as wild ancester of maise	1950 July p 20–24 [26]
Bering land bridge, MacKenzie river, humai	n migration 'How man
came to North America'	1951 Jan p 11-15
Folsom man, stone tools, Cochise culture Pine Lawn Valley, Cochise culture, Mogollo.	1951 Feb p 15-19
1300 A D in New Mexico	1951 July p 46-51
Peru, photogrammetry, pre-Inca cities mapp	ed by aerial photograph)
-	1951 Aug p 18-23
mound builders, agricultural revolution, stati Mississippian culture, pre-Columbian Mis	stical seriation,
urban revolution	1952 Mar p 22-21
Peru, Vıru valley	1954 Aug. p 28-34
Peru, Playa Grande culture, history of a dig	1955 Mar p 98-104
Maya civilization, decline and fall of Maya cr	1955 May p 82-88
mining, gypsum, Amerindian, prehistoric mai	ı ın Mammoth cave
	1960 July p 130-140
plant migration, oceanography, animal migrat	tion, Bering land bridge
continental shelf, glaciation, Wisconsin glac migration, Asia-North America	1962 Jan p 112-123
agricultural revolution. Mexican agriculture c	orn, urbanization New
World agricultural revolution	1964 NOV P 29-37 [023]
Amerindian, Hopewell cult, burial mounds climate, Peru Current, Inca civilization, enviro	nmental influences on
early Peruvian cultures	1965 Oct b po-10
pottery, human migration, navigation, Japan, I	Ecuador, evidence for 1966 Jan p 28-35
3,000 B C trans-Pacific contact metallurgy, New World archeology, Old Coppe	r culture Peru copper
gold, lost-wax casting, metalwork, pre Colum	shian New Wolly
4 000 B C	1966 Apr p /2-01
metallurgy, New World archeology, Old Coppe	r culture, Peru copper
gold, lost-wax casting metalwork, pre Colum 4,000 B C	1966 Apr p 72-81
Clovis culture, hunting, mammoth-bone deposit	e Folsom points
elephant extinction	1966 June p 104-11-
Paleo-Indians, hunting, bison, Olsen-Chubbuck bison hunt, kill, butchering	1907 Jan p
Amerindian prehistory, Teotihuacan, Middle An	nerica Mexico pre-
Columbian metropolis Arawak Indians, earthworks flood plain, agricul	1967 June p 20
fields	1967 July 17 32-10
stone tools, South America, early man in New Wo	orld 12 000 B C 1967 Nov. p. 44 50
Onion Portage site, Eskimo Bering land bridge h	uman micr HOD
Alaska stone artifacts gateway to America	1968 June p ** *
West feeles Demonstrate stone artifacts island th	anns sea routes
seafaring hunters from Central America? 196 Amerindian Eskimo, burial site, 2000 B C. Port a	
Newfoundland eleters 1970	lune p 112-121 [657]
Amerindian Iroquois Confederacy, cannibalism (
	Onandaga tribe
Maya cermonial center, stelae cult British Hondur	Onandaga tabe I Feb. p. 32–42 [65º] as. I ubaantun
Maya cermonial center, stelae cult British Hondur	Onandaga tribe I Feb. p. 32–42 [65 ^e] av. I ubaantun 1972 May p. 82-91
Maya cermonial center, stelae cult British Hondur Pusilha sites Amerindian burial mounds Cahokia Mississippia 1975 /	Onindiga tribe I Feb p 32-42 [65°] as I ubinintun 1972 May p \$2-91 n culture Aug p 92-101 [6°]
Maya cermonial center, stelae cult. British Hondur Pusilha sites Amerindian burial mounds. Cahokia. Mississippia. 1975 / Amerindian burial mounds. Labrador	Onindiga tribe I Feb p 32-42 [658] as I ubinintun 1972 May p 82-91 n culture Aug p 92-101 [6 8] 76 Nov. p 122 129
Maya cermonial center, stelae cult. British Hondur Pusilha sites Amerindian burial mounds. Cahokia. Mississippia 1975 Amerindian burial mounds. Labrador. 16 Maya civilization. 19	Onindinga tribe I Feb p 32-42 [65%] as I ubinintun 1972 May p 82-91 n culture Aug p 92-101 [6%] 176 Nov. p 122 129 77 Mar p 116 133 1919 May p 27
Maya cermonial center, stelae cult. British Hondur Pusilha sites Amerindian burial mounds. Cahokia. Mississippia. 1975 / Amerindian burial mounds. Labrador	Onindiga tribe I Feb p 32-42 [658] as I ubinintun 1972 May p 82-91 n culture Aug p 92-101 [6 9] 176 Nov. p 122 129 77 Mar p 116 133

30,000-year-old artifact	1960 Sept. p. 100	nitrogen fertilizer, energy cycle, nutrient cycle, soil s	structure, food and 1976 Sept. p. 74–86
Mississippi Valley solar observatory	1964 Sept. p. 84	agriculture, food chain nitrogen fixation, heat, chemistry, regenerative furna	
Mexican and Canadian sites	1967 June p. 57 1968 June p. 44	limits, high temperatures: chemistry	1954 Sept. p. 109-119
Marmes man oldest North American(?)	1968 Oct. p. 61	bacteria, nitrogen cycle, blue-green algae, Haber I	
13,600-year-old birovac first settlers	1972 Jan. p. 51	nitrate, legumes, eutrophication 1970 S	ept. p. 136–146 [1194]
role of man in large-mammal extinctions	1973 May p. 44	forestry, ecosystem, resource management, runoff	, erosion, watershed,
see also: Amerindian, Aztec civilizaton, Folsom n	nan and the like	deforestation, deforestation experiment 1970	Oct. p. 92-101 [1202
lew York, local goverment, cities, metropolitan reg	ion, central city,	legumes, agronomy, soybean products, plant prot	
suburbs, Northeast Corridor, regional planning	3	Listenial siteman fivotic	1974 Feb. p. 14-21
	1965 Sept. p. 134-148	ammonia manufacture, biological nitrogen fixatio metallo-organic process	1974 Oct. p. 64–70
lew Zealand flightless birds, moas, extinction, evol-	ution, hunting 1954 Feb. p. 84-90	algae, bacteria, legumes, nitrogenase, genetic engi	
Newcomen engine, steam engine, mine drainage, te		process, rhizobium, legumes, symbiosis, nitroge	enase, biological
Watt, pumps, Industrial Revolution, origins of	steam engine	nitrogen fixation	1977 Mar. p. 68-81
watt, pumps, muustrar revolution, ong.no o	1964 Jan. p. 98-107	nitrogen gas, product of mamalian metabolism	1968 July p. 50
Newfoundland, Viking site	1964 Jan. p. 56	nitrogen mustard, cancer therapy, radiation damage	, carcinogenesis,
newspapers, content analysis, military secrecy, Con	gressional	mutation, nuclear medicine, chemical imitation	of radiation injury
investigation, 'Condon case', content analysis		nitrogenase, algae, bacteria, legumes, nitrogen fixati	1960 Jan. p. 99–108
of political attacks on E. U. Condon	1949 Feb. p. 16-21	genetic engineering, Haber process, rhizobium,	legimes symbiosis
newt, regeneration, cell differentiation, cockroach, experiments, embryonic development, biologic	cilioryo-grait	biological nitrogen fixation	1977 Mar. p. 68-81
19°	77 July p. 66–81 [1363]	algae, bacteria, legumes, nitrogen fixation, genetic	
Newton, calculus, mechanics, optics, life and work	of Isaac Newton	process, rhizobium, legumes, symbiosis, nitroge	enase, biological
,,, <u>-</u> , <u>-</u> ,	1955 Dec. p. 73-80	nitrogen fixation	1977 Mar. p. 68-8
as sleuth	1958 Sept. p. 96	Nixie tubes, integrated circuits, light-emitting diode	
insight into private life	1963 Sept. p. 88	numeric displays	1973 June p. 64-73
as data fudger	1973 Apr. p. 44	NOAA: National Ocean and Atmosphere Administ NOAA, U.S. ocean and atmosphere agency	1970 Dec. p. 40
Newton body, rheology, flow of matter, Hooke bod how solids flow 1959	9 Dec. p. 122–138 [268]	Nobel prizes, science history; 1949 awards in physic	
Newton's third law, cardiology, medical diagnosis,		Yukawa; in chemistry, to: William F. Giaque;	in physiology and
, , , , , , , , , , , , , , , , , , ,	1958 Feb. p. 89-95	medicine, to: Walter R. Hess, Antonio Moniz;	for peace, to: John
Nichol prism, animal navigation, polarized light, d		Boyd-Orr	1949 Dec. p. 11-17
horseshoe crab	1955 July p. 88–94	education, university education, sociology, scient	
nickel plating, by chemical bath	1953 May p. 56	of the Nobel prizes in physics, to: Murray Gell-mann; in chemistry, to	1967 Nov. p. 25–33
nidation, contraception, birth control, reproduction fertilization	1954 Apr. p. 31–34	Odd Hassel; in physiology and medicine, to: M	
fetus as transplant, histocompatability, immune		D. Hershey, Salvador Luria, in economics, to:	
immunological privilege, reproduction, troph		Tinbergen	1969 Dec. p. 48-50
NU	1974 Apr. p. 36-46	in physics, to: P. M. S. Blackett; in chemistry, to:	
Nigeria, industrial technology, economic developr	nent, technology	Physiology and medicine, to: Paul H. Muller	1948 Dec. p. 26
transfer, tribal politics, economic development	1963 Sept. p. 168–184	in physics, to: Cecil F. Powell; in chemistry, to: I Diels; in physiology and medicine, to: Phillip S	
night blindness, electroretinography, vitamin A de	eficiency, onsin.	Kendall, Tadeus Reichstein	1950 Dec. p. 20
rhodopsin, bright-light exposure, retinitis pig		in physics, to: John D. Cockroft, E.T.S. Walton;	
blindness in rat, action of vit. A on eye 19	966 Oct. p. 78-84 [1053]	Edwin M. McMillan, Glenn T. Seaborg; in phy	
nightglow, Earth, aurora, airglow, corpuscular str		to: Max Theiler	1951 Dec. p. 34
aurora and airglow Nile crocodile, animal behavior, crocodile, parent	1955 Sept. p. 140-150	in physics, to: Felix Bloch, Edward M. Purcell; in Martin, R.L.M. Synge; in physiology and med	
erocodne, animar ochavior, crocodne, parem	1976 Apr. p. 114-124	Waksman	1952 Jan. p. 29
Nile prehistory, climate, cultural evolution, hunte	r-gatherer societies,	in physics, to: Fritz Zernike; in chemistry, to: He	errmann Standinger;
Paleolithic settlements, stone tools	1976 Aug. p. 30-38	in physiology and medicine, to: Hans A. Kreb	s, Fritz A. Lipmann
Nile valley, Egyptian civilization, Sakkara, burial the first pharaohs		in about a Man Dana Wald or Dath It I	1953 Dec. p. 48
niobium alloys, electromagnetism, magnetism, su	1957 July p. 106-116	in physics, to: Max Born, Walther Bothke, in che Pauling, in physiology and medicine, to: John	mistry, to: Linus C.
beam focusing, generation of intense magnet	ic fields	C. Robbins, Thomas H. Weller	1954 Dec. p. 52
	1967 Mar. p. 114-123	in physics, to: Polykarp Kush, Willis E. Lamb; in	n chemistry, to:
nitrate, bacteria, nitrogen cycle, nitrogen fixation	, blue-green algae,	Vincent du Vigneaud; in physiology and medic	
Haber process, biosphere, legumes, eutrophi		Theorett	1955 Dec. p. 46
nitriliers, nitrogen, biological nitrogen fixation, a) Sept. p. 136-146 [1194] Immonia, denitrifiers.	in physics, to: John Bardeen, Walter H. Brattain, chemistry, to: Cyrrl N. Hinshelwood, Nikolai	William Shockley; in
nitrogen cycle, legumes	1953 Mar n 38-42	physiology and medicine, to: André F. Courna	ind. Werner
nitrogen, biological nitrogen fixation, ammonia,		Forssmann, Dickinson W. Richards	1956 Dec. p. 52
nitrogen cycle, legumes atmosphere, escape velocity, photosynthesis, v	1953 Mar. p. 38-42	in physics, to: Tsung-Dao Lee, Chen Ning Yang;	in chemistry, to:
crystallization, oxygen, origin and evolution	olcanoes, water of	Alexander R. Todd; in physiology and medicing	
	1953 Aug n 82_86 [824]	age of greatest productivity	1957 Dec. p. 59
carbon dioxide, laser, infrared radiation, eas la	aser, physics of carbon	in physics, to: Pavel Cerenkov, Ilya Frank, Igor J	1958 Jan. p. 46 Tamm: in chemistry
dioxide faser	1968 Aug n 22-33	to: Frederic Sanger; in physiology and medicin	ne, to: George W.
breeder reactor, use of heavy nitrogen in react reactor-fixed nitrogen		Beadle, Edward L. Tatum, Joshua Lederberg	1058 Dag = 63
nitrogen cycle, nitrogen, biological nitrogen fixa	1956 Dec. p. 54	in physics, to: Owen Chamberlain, Emilio G. Seg	ré: in chemister : or
acuminers, regumes	1052 Man - 25 42	Jaroslav Heyrovsky; in physiology and medicii Kornberg, Severo Ochoa	1000 70 70
bacteria, nitrogen fixation, blue-green algae, I nitrate, legumes, eutrophication 197	laber process, biosphere,	in physics, to: Donald A. Glazer: in chemistry to	1959 Dec. p. 78 D: Willard F. Libber in
forest communities, lichens, ecology, algae, for	10 Sept p. 136 146 [1104]	physiology and medicine, to: Mac Farlane Bur	net, Peter B. Medawae
comystems	1973 June p. 74–80 [1274]		1960 Dec. p. 74
	· · · · · · · · · · · · · · · · · · ·		•

in physics, to Robert Hofstadter, Rudolf L Mossbauer, in chemistry,
to Melvin Calvin, in physiology and medicine, to Georg von Bekesy
in physics, to Lev D Landau, in chemistry to John C Vendous N
T TOTAL IN DITASIONES AND MEDICINE TO THE CHARLES TO THE
watson, with F witkins, for peace, to Linus C Pauling
in physics to Maria Gonnert Maria LVD 1
in physics, to Maria Goeppert-Meyer, J H D Jensen, Eugene P Wigner, in chemistry, to Giulio Natta, Karl Ziegler, in physiology
and medicine, to John C Eccles, Alan L Hodgkin, Andrew F
nuxiey 1963 Dec. p. 64
in physics, to Nikolai G Basov, Alexander M Prochorov in
chemistry, to Dorothy C Hodgkin, in physiology and medicine, to Konrad E Bloch, Feodor Lynen 1964 Dec. p. 60
in physics, to R P Feynman, Julian S Schwinger, Shinichiro
Tomanaga, in chemistry, to Robert B Woodward Andre I Woff
in physiology and medicine, to Francois Jacob, Jacques Monod
1965 Dec. p. 38
in physics, to Alfred Kastler, in chemistry, to Robert S Mulliken, in
physiology and medicine, to Charles B Huggins, Francis Peyton Rous
In physics, to Hans A Bethe, in chemistry, to Manfred Eigen,
R G W Norrish, George Porter, in physiology and medicine, to
Rognar Granit, Haldan Keffer Hartline, George Wald
1967 Dec p 48
in physics, to Luis W Alvarez, in chemistry, to Lars Onsager, in physiology and medicine, to Robert W Holley, H Gobind
Khorana, Marshall W Nirenberg 1968 Dec. p. 48
in physics, to Louis Neel, Hannes Alfven, in chemistry, to Lius A
Lefoir, in physiology and medicine to Julius Axelrod, Bernard Katz,
Ulf von Euler, in economics, to Paul A Samuelson, for peace, to Norman E Borlavg 1970 Dec. p. 38
in physics, to Dennis Gabor, in chemistry, to Gerhard Herzherg, in
physiology and medicine, to Earl W Sutherland, Jr, in economics
to Simon Kuznets 1971 Dec p 38
in physics, to John Bardeen, Leon N Cooper, John R Schrieffer, in chemistry, to Christian B Anfinson, Stanford Moore, William H
Stein, in physiology and medicine, to Gerald M Edelman, Rodney
R Porter, in economics, to Kenneth J Arrow, John R Hicks
1972 Dec p 41
in physics, to Ivar Giaever, Leo Esaki, Brian D Josephson, in chemistry, to Ernst Otto Fischer, Geoffrey Wilkinson, in physiology
and medicine, to karl von Frisch, Konrad Lorenz, Nikollas
Tinbergen, in economics, to Wassily W Leontief 1973 Dec p 50
in physics, to Martin Ryle, Antony Hewish, in chemistry, to Paul J
Flory, in physiology and medicine, to Albert Claude, Emil Palade, Cristian Rene de Duve, in economics, to Gunnar Myrdal, Friedrich
A von Hayek 1974 Dec p 56
in physics, to James Rainwater, Ben Mottelson, Aage Bohr, in
chemistry, to John Comforth, Vladimir Prelog, in physiology and medicine, to David Baltimor, Howard Temin, Renato Dalbecco, in
economics, to Tjalling Koopmans, Leonid Kantorovich, for peace
Andrei Sakharov 1975 Dec p 48
in physics, to Burton Richter, Samuel C C Ting, in chemistry, to William L Lipscomb, in physiology and medicine, to Baruch S
Blumberg, Daniel C Gajdysek, in economics, to Milton Friedman
1976 Dec p 50
in physics, to Philip W Anderson, Nevill Mott, John H Van Vleck, in
chemistry, to Ilya Prigogine, in physiology and medicine, to Rosalyn S Yallow, Roger C L Guillemin, Andrew V Schally
1977 Dec p 82
nobelium, element 102 1957 Aug p 58
noble gases, chemical bond, quantum mechanics, compounds of 'mert 1964 May p 66-77
argon crystal structure, cryogenics, solid state physics solid noble
gases 1960 Oct p 07-74
tranned in Claimfates
incorporated in composition 1974 Aug. p. 48 n
and the state of t
nocturnal animals, animal behavior, tawny own predated pro-
relationship nodes and branches, network analysis pipelines, powergrids graph 1970 July p 94-103
nodes and branches, network analysis pipeliness page 1970 July p 94-103 theory, reliability analysis action potential refractory period
theory, reliability analysis nodes of Ranvier, nerve impulse action potential refractory period nodes of Ranvier, nerve impulse action potential refractory period 1952 Nov. p. 55-65 [20]

1952 Nov p 55-65 [20]

```
noise, information theory, statistics, thermodynamics, redundancy,
            digital storage media, analogue storage media, information
            compression, automatic control, information 1952 Sept p 132-148
          junction diode amplifiers, amplifiers, sound reproduction, transistor
            electronic circuitry
                                                            1959 June p 118-129
          carrier-wave modulation, coaxial cable, communication technology
            electromagnetic spectrum, fiber optics, radiowave, communication
            channels, bandwidth
                                                             1972 Sept p 98-113
       noise control, vibration, constrained-layer damping, viscoelastic material
                                                              1969 Jan p 98-106
      noise-induced hearing loss, occupational health, noise pollution, auditor,
           impairment, industrial hygiene, public health, preventing noise
           induced hearing loss, US noise pollution legislation
                                                        1966 Dec p 66-76 [306]
      noise pollution, sonic boom, supersonic flight, shock waves, supersonic
           aircraft design, geometry of shock waves
                                                              1962 Jan p 36-43
        noise-induced hearing loss, occupational health, auditory impairment
           industrial hygiene, public health, preventing noise induced hearing
           loss, US noise pollution legislation
                                                        1966 Dec p 66-76 [306]
        air transport, technology assessment, science policy, automobile
           transportation, air pollution, technology assessment institutions
                                                       1970 Feb p 13-21 [332]
          proposed
       jet engines
                                                                1952 June p 38
     nomads, commerce, Vikings, Scandinavia, Vinland, Siegfried legend
          seafaring, Svea, appraisal of 400-year Viking ascendance
                                                             1967 May p 66-78
     nomatic civilization, cavalry, Mongol conquests, war, Chingis Khan
                                                            1963 Aug p 54-68
          frontier history, Chingis Khan, biography
     non-Cantorian sets, mathematics, set theory, Russell's paradox, Cantor
                                                          1967 Dec p 104-116
          non-Euclidian geometry, axiom of choice
     non-commutative algebra, mathematics, set theory, logic, paradox, non
          Euclidian space, Hilbert spaces, science, mathematics 1900 1950
                                                           1950 Sept p 40-42
          undecidable questions
       quaternions, complex numbers, mathematics, high-energy physics
         Hamilton, life and work of William Rowan Hamilton
                                                           1954 May p 82-87
    non-Euclidian geometry, curvature of space, Riemann, general relativity
                                                           1954 Nov p 80-86
      geometry, mathematics, topology, conic sections, history and current
                                                          1964 Sept p 60-69
        uses of geometry
      mathematics, set theory, non-Cantonian sets, Russell's paradox,
                                                        1967 Dec p 104-116
        Cantor, axiom of choice
      Aristotle, parallel lines, non-Euclidian geometry before Euclid
                                                          1969 Nov p 87-98
   non-Euchdian space, mathematics, set theory, logic, paradox, non-
        commutative algebra, Hilbert spaces, science, mathematics 1900-
                                                         1950 Sept p 40-42
        1950, undecidable questions
   non-ferrous ore, hydrothermal extraction, mineral deposits, mineral
       resources, plate tectonics, mineral prospecting
                                                    1973 July p 86-95 [909]
  non-linear reactions, chemical reaction, computer modeling, oscillating
                                                         1974 June p 82-95
       reagents, rotating chemical reactions
  non-Mendelian inheritance, cytoplasmic inheritance, reciprocal crossing
       maternal inheritance, sex linked traits, male sterility, paramecium
       chloroplast, plastids, cytogene, review of evidence for an extra-
                                                    1950 Nov p 30-39 [39]
      chromosomal genetics
 non-uniform electric field, electric field, electric 'wind', electrophoresis
                                                      1960 Dec p 106-116
      applications of non-uniform electric fields
 nondestructive testing, ultrasonics, interferometry, emulsification sonar
                                                        1954 May p 54-63
   neutron radiography, thermal neutrons, fission reactor, neutrons as
                                               1962 Nov p 107-119 [287]
      inspection tool
   acoustic holography, laser, sound waves interference, holography,
                                                           1969 Oci p 36
      acoustic imaging, medical diagnosis
 nondisjunction, Down's syndrome, chromosomal anomalies Klinefelter's
     syndrome, trisomy 21, genetic defect, meiosis mitosis gene
     translocation afflictions associated with abnormal chromosome
                                                 1961 Nov p 66-76 [159]
     complement
nonlinear optics, crystallography, laser, light refraction light interactions
                                                       1964 Apr p 38-49
     ultraviolet radiation photon
nonmetals, crystal structure solid state electronics X-ray
     crystallography, metals semiconductor materials technology
    amorphous solid electrical conductivity
nonperiodic systems, amorphous semiconductors. Osshinsky desices
    quantum mechanics, semiconductor technology, switching
                                                1977 May p 36 40 (3/2)
    phenomena
```

sodium ion potential nerve membrane

onrenewable resources, recycling, material resources, biosphere, inorganic-materials cycle 1970 Sept p 194-208 [1198] onthermal emission, radio galaxies, gravitational collapse, supernovae, synchrotron radiation, intensity of galactic radio emission	emphasizes basic research	
inorganic-materials cycle 1970 Sept p 194–208 [1198] onthermal emission, radio galaxies, gravitational collapse, supernovae,		1952 Mar p 36
onthermal emission, radio galaxies, gravitational collapse, supernovae,	first grants	1952 Apr. p 37
synchrotron radiation, intensity of galactic radio emission	Bronk in chair	1956 Feb. p 49
	more money	1956 Nov. p 61
1962 Mar p 41–49 [278]	loyalty and security, Yellin case 'In lieu of ability'	1961 Aug p 61
to a 11 encounty typhylana yand rotating	Haworth director	1963 May p 74
onuniform flows, eddies, negative viscosity, turbulence, wind, rotating		
systems, viscosity 1970 July p 72–80	nuclear arms control, see arms control	
nonuniformities, galactic evolution, gravity, red shift, gravitational	nuclear arms race, see arms race	
instability, primordial fireball, protogalaxies, origin of galaxies	nuclear binding force, elementary particles, electron, pr	oton, particle
1970 June p 26–35	counters, neutron, positron, mesons, photon, neut	rino, particle
	accelerator, 'Meson Song'	1948 June p 26-39
nonverbal communication, posture, anthropology, cultural relativism		
1957 Feb p 122–132	mesons, strong interactions, particle physics, fleeting	
language, Canary Islands, whistling, phonology, the whistled language		oct p 93–102 [207]
of La Gomera 1957 Apr p 111–118	mesons, pions, strong interactions, particle physics, o	quantum of the
pictograph, anthropology, Easter Island talking boards	strong force 1957	Jan p 84-92 [226]
pictograph, anthropology, Easter Island taiking boards	nuclear boiling, boiling, liquids, heat transfer, transition	
1958 June p 61–68		
behavior, speech, facial expression, vocal display, facial expression in		1954 June p 64-68
communication 1965 Oct p 88–94 [627]	nuclear bomb, see atomic bomb	
communication, eye, pupil size, effect of pupil size on attitude	'nuclear club', India as atomic power, nuclear nonproli	feration treaty,
1975 Nov. p 110–119 [567]		1975 Apr. p 18-33
1000 14	nuclear clustering, alpha clustering, alpha particles, ato	
	alamata manufacture, arpha particles, are	ane cuefaca mentam
noradrenalin, fear, anger, adrenalin 1955 May p 74-81 [428]	elementary particles, neutron, nuclear forces, nucl	
noradrenaline, acetylcholine, adrenalin, catecholamines, dopamine, drug		72 Oct p 100–108
effects, nerve physiology, neurotransmitters	nuclear cooling, cryogenics, supercooling, helium 3/hel	lium 4 dilution,
1974 June p 58–71 [1297]	approaching absolute zero, Pomeranchuk method	
normal curve, mathematics, probability, combinatorial analysis, Brownian		1969 Dec p 26-35
normal curve, mathematics, probability, combinatorial analysis, browner		
motion, Markov chain, Pascal's triangle, statistics, probability theory		1951 May p 17–21
1964 Sept p 92–108	civilian vs military control	1948 May p 32
Norman invasion, architectural engineering, war, castle, English castles,	enterprise in U K and France	1948 June p 24
A D 1066 1958 Mar. p 42-48	first chain reaction in France	1949 Jan p 28
North American forests, white pine, Royal Navy, King's Broad Arrow,	encouragement by Federal government	1949 Feb p 28
	fission thresholds declassified	1949 Apr p 25
Northeast Corridor, local government, cities, New York, metropolitan	breeder reactor development	1949 May p 26
region, central city, suburbs, regional planning	Congo uranium reserve	1949 Sept p 26
1965 Sept p 134–148	gaseous diffusion plant in Kentucky	1951 Feb p 34
Northeast Passage, Arctic Ocean, ocean circulation, telemetry,	\$5 billion expansion	1952 June p 40
meteorology, ice-floe islands, bathymetry, marine biology, Soviet	uranium-ore horizon	1952 Oct p 39
Arctic research 1961 May p 88–102	international control	1954 Feb p 43
Norway, nuclear reactor, at Kieller, Norway 1951 Dec p 30-32	national and international	1955 Mar p 50
Norway maple, city trees, pollution effects, tree cloning, ailanthus, ginkgo,	23 bilateral international agreements	1955 Aug. p 46
	EURATOM, European cooperative	1957 Apr p 68
London plane 1976 Nov p 110–118	Stateme for Niveless Aveiless, Day of (SMAD)	1959 July p 68
	Systems for Nuclear Authrary Power (SNAP)	סט ע אנשכ כככנ
novelty, attention, learning, physiological psychology, conflict,	Systems for Nuclear Auxiliary Power (SNAP) U N conference	
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning	UN conference	1964 Nov. p 56
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82-87 [500]	UN conference nuclear fission, crystal structure, neutron, radiation, so	1964 Nov. p 56 lid state physics,
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82-87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics,	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids 1956.	1964 Nov. p 56 lid state physics, Aug p 76–84 [245]
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82-87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids uranium fission, fission products, 'synthetic' elemen	1964 Nov. p 56 lid state physics, Aug p 76–84 [245] ts, radium,
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82-87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84-92	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids 1956.	1964 Nov. p 56 lid state physics, Aug p 76–84 [245] ts, radium,
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82-87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84-92 N S F.: National Science Foundation	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids uranium fission, fission products, 'synthetic' elemen isotropy, transuranium elements, science history,	1964 Nov. p 56 lid state physics, Aug p 76–84 [245] ts, radium, discovery of fission
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82-87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84-92 N S F.: National Science Foundation	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids 1956 uranium fission, fission products, 'synthetic' elemen isotropy, transuranium elements, science history,	1964 Nov. p 56 hid state physics, Aug p 76-84 [245] ts, radium, discovery of fission 1958 Feb p 76-84
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82-87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84-92 N.S. F.: National Science Foundation N.S. F., science funding, university research, fundamental research,	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids 1956 uranium fission, fission products, 'synthetic' elemen isotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium 2	1964 Nov. p 56 lid state physics, Aug p 76-84 [245] ts, radium, discovery of fission 1958 Feb p 76-84 35, shell model,
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82-87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84-92 N S F.: National Science Foundation N.S F., science funding, university research, fundamental research, science education 1948 June p 7-11	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids 1956 uranium fission, fission products, 'synthetic' elemen isotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium 2 fission fragments	1964 Nov. p 56 lid state physics, Aug p 76–84 [245] ts, radium, discovery of fission 1958 Feb p 76–84 [35, shell model, 1965 Aug. p 49–59
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82–87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84–92 NS F.: National Science Foundation NS F., science funding, university research, fundamental research, science education 1948 June p 7–11 science funding, university science science education, appraisal of the	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids 1956 a uranium fission, fission products, 'synthetic' elementisotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium 2 fission fragments atomic nucleus, charge distribution, nuclear probe, s	1964 Nov. p 56 lid state physics, Aug p 76-84 [245] ts, radium, discovery of fission 1958 Feb p 76-84 [35, shell model, 1965 Aug. p 49-59 hell model, shape
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82–87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84–92 N S F.: National Science Foundation N.S F., science funding, university research, fundamental research, science education 1948 June p 7–11 science funding, university science science education, appraisal of the new institution upon its legislation 1950 July p 11–15	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids 1956 a uranium fission, fission products, 'synthetic' elementisotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium 2 fission fragments atomic nucleus, charge distribution, nuclear probe, s and size of nucleus	1964 Nov. p 56 hid state physics, Aug p 76-84 [245] ts, radium, discovery of fission 1958 Feb p 76-84 [35, shell model, shape 1969 Aug. p 58-73
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82-87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84-92 N.S. F.: National Science Foundation N.S. F., science funding, university research, fundamental research, science education 1948 June p 7-11 science funding, university science science education, appraisal of the new institution upon its legislation 1950 July p 11-15 fundamental research, curiosity, science funding, 'mission-oriented'	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids 1956 a uranium fission, fission products, 'synthetic' elementsotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium a fission fragments atomic nucleus, charge distribution, nuclear probe, s and size of nucleus fission products, natural reactor, Oklo phenomenon	1964 Nov. p 56 hid state physics, Aug p 76-84 [245] ts, radium, discovery of fission 1958 Feb p 76-84 [35, shell model, shape 1969 Aug. p 58-73
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82-87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84-92 N.S. F.: National Science Foundation N.S. F., science funding, university research, fundamental research, science education 1948 June p 7-11 science funding, university science science education, appraisal of the new institution upon its legislation 1950 July p 11-15 fundamental research, curiosity, science funding, 'mission-oriented' funding agencies, university science, introduction to a single-topic	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids 1956 a uranium fission, fission products, 'synthetic' elemen isotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium 2 fission fragments atomic nucleus, charge distribution, nuclear probe, s and size of nucleus fission products, natural reactor, Oklo phenomenon reactor, uranium deposits	1964 Nov. p 56 Ild state physics, Aug p 76–84 [245] Is, radium, Ilso, radium, 1958 Feb p 76–84 Ilso, shell model, 1965 Aug. p 49–59 hell model, shape 1969 Aug. p 58–73 I Precambrian 1976 July p 36–47
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82–87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84–92 N.S. F.: National Science Foundation N.S. F., science funding, university research, fundamental research, science education 1948 June p 7–11 science funding, university science science education, appraisal of the new institution upon its legislation 1950 July p 11–15 fundamental research, curiosity, science funding, smission-oriented funding agencies, university science, introduction to a single-topic issue on fundamental questions in science 1953 Sept p 47–51	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids 1956 a uranium fission, fission products, 'synthetic' elemen isotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium 2 fission fragments atomic nucleus, charge distribution, nuclear probe, s and size of nucleus fission products, natural reactor, Oklo phenomenon reactor, uranium deposits	1964 Nov. p 56 Ild state physics, Aug p 76–84 [245] Is, radium, Ilso, radium, 1958 Feb p 76–84 Ilso, shell model, 1965 Aug. p 49–59 hell model, shape 1969 Aug. p 58–73 I Precambrian 1976 July p 36–47
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82-87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84-92 N.S. F.: National Science Foundation N.S. F., science funding, university research, fundamental research, science education 1948 June p 7-11 science funding, university science science education, appraisal of the new institution upon its legislation 1950 July p 11-15 fundamental research, curiosity, science funding, 'mission-oriented' funding agencies, university science, introduction to a single-topic	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids 1956 uranium fission, fission products, 'synthetic' elemen isotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium 2 fission fragments atomic nucleus, charge distribution, nuclear probe, s and size of nucleus fission products, natural reactor, Oklo phenomenon reactor, uranium deposits nuclear forces, unified field theory, gravity, electromage	1964 Nov. p 56 lid state physics, Aug p 76-84 [245] ts, radium, discovery of fission 1958 Feb p 76-84 [35, shell model, 1965 Aug. p 49-59 hell model, shape 1969 Aug. p 58-73, Precambrian 1976 July p 36-47, netism. On the
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82–87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84–92 N.S. F.: National Science Foundation N.S. F., science funding, university research, fundamental research, science education 1948 June p 7–11 science funding, university science science education, appraisal of the new institution upon its legislation 1950 July p 11–15 fundamental research, curiosity, science funding, "mission-oriented" funding agencies, university science, introduction to a single-topic issue on fundamental questions in science 1953 Sept p 47–51 science funding, university science, fundamental research	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids 1956 a uranium fission, fission products, 'synthetic' elemen isotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium 2 fission fragments atomic nucleus, charge distribution, nuclear probe, s and size of nucleus fission products, natural reactor, Oklo phenomenon reactor, uranium deposits nuclear forces, unified field theory, gravity, electromag Generalized Theory of Gravitation', a personal ac	1964 Nov. p 56 lid state physics, Aug p 76–84 [245] ts, radium, discovery of fission 1958 Feb p 76–84 [35, shell model, 1965 Aug. p 49–59 hell model, shape 1969 Aug. p 58–73, Precambrian 1976 July p 36–47 netism. On the count by Albert
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82–87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84–92 NS F.: National Science Foundation N.S F., science funding, university research, fundamental research, science education 1948 June p 7–11 science funding, university science science education, appraisal of the new institution upon its legislation 1950 July p 11–15 fundamental research, curnosity, science funding, 'mission-oriented' funding agencies, university science, introduction to a single-topic issue on fundamental questions in science 1953 Sept p 47–51 science funding, university science, fundamental research 1954 Mar p 29–33	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids 1956 a uranium fission, fission products, 'synthetic' elemen isotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium 2 fission fragments atomic nucleus, charge distribution, nuclear probe, s and size of nucleus fission products, natural reactor, Oklo phenomenon reactor, uranium deposits nuclear forces, unified field theory, gravity, electromag Generalized Theory of Gravitation', a personal ac Einstein	1964 Nov. p 56 lid state physics, Aug p 76-84 [245] ts, radium, discovery of fission 1958 Feb p 76-84 [35, shell model, 1965 Aug. p 49-59 hell model, shape 1969 Aug. p 58-73, Precambrian 1976 July p 36-47 metism. On the count by Albert 1950 Apr p 13-17
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82–87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84–92 N.S. F.: National Science Foundation N.S. F., science funding, university research, fundamental research, science education 1948 June p 7–11 science funding, university science science education, appraisal of the new institution upon its legislation 1950 July p 11–15 fundamental research, curiosity, science funding, 'mission-oriented' funding agencies, university science, introduction to a single-topic issue on fundamental questions in science 1953 Sept p 47–51 science funding, university science, fundamental research 1954 Mar p 29–33 science funding, science policy, university science, U.S. Federal	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids 1956. uranium fission, fission products, 'synthetic' elemen isotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium 2 fission fragments atomic nucleus, charge distribution, nuclear probe, s and size of nucleus fission products, natural reactor, Oklo phenomenon reactor, uranium deposits nuclear forces, unified field theory, gravity, electromag Generalized Theory of Gravitation', a personal ac Einstein matter, wave-particle duality, energy levels, electrom	1964 Nov. p 56 lid state physics, Aug p 76–84 [245] is, radium, discovery of fission 1958 Feb p 76–84 [35, shell model, 1965 Aug. p 49–59 hell model, shape 1969 Aug. p 58–73, Precambrian 1976 July p 36–47, netism, 'On the count by Albert 1950 Apr p 13–17 lagnetic force.
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82–87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84–92 N.S. F.: National Science Foundation N.S. F., science funding, university research, fundamental research, science education 1948 June p 7–11 science funding, university science science education, appraisal of the new institution upon its legislation 1950 July p 11–15 fundamental research, curiosity, science funding, mission-oriented' funding agencies, university science, introduction to a single-topic issue on fundamental questions in science 1953 Sept p 47–51 science funding, university science, fundamental research 1954 Mar p 29–33 science funding, science policy, university science, U.S. Federal funding basic and applied science	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids 1956. uranium fission, fission products, 'synthetic' elemen isotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium 2 fission fragments atomic nucleus, charge distribution, nuclear probe, s and size of nucleus fission products, natural reactor, Oklo phenomenon reactor, uranium deposits nuclear forces, unified field theory, gravity, electromag Generalized Theory of Gravitation', a personal ac Einstein matter, wave-particle duality, energy levels, electrom gravitation, field theory, fundamental research, qu	1964 Nov. p 56 lid state physics, Aug p 76-84 [245] is, radium, discovery of fission 1958 Feb p 76-84 [35, shell model, 1965 Aug. p 49-59 hell model, shape 1969 Aug. p 58-73, Precambrian 1976 July p 36-47, netism, 'On the count by Albert 1950 Apr p 13-17 lagnetic force, tantum jumps,
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82–87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84–92 N.S. F.: National Science Foundation N.S. F., science funding, university research, fundamental research, science education 1948 June p 7–11 science funding, university science science education, appraisal of the new institution upon its legislation 1950 July p 11–15 fundamental research, curiosity, science funding, mission-oriented' funding agencies, university science, introduction to a single-topic issue on fundamental questions in science 1953 Sept p 47–51 science funding, university science, fundamental research 1951 Mar p 29–33 science funding, science policy, university science, U.S. Federal funding basic and applied science 1957 Nov. p 45–49 'mission-oriented' funding agencies, science funding, institutional	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids 1956 uranium fission, fission products, 'synthetic' elemen isotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium 2 fission fragments atomic nucleus, charge distribution, nuclear probe, s and size of nucleus fission products, natural reactor, Oklo phenomenon reactor, uranium deposits nuclear forces, unified field theory, gravity, electromag Generalized Theory of Gravitation', a personal ac Einstein matter, wave-particle duality, energy levels, electrom gravitation, field theory, fundamental research, qu corpuscular streams, what is matter? 1953	1964 Nov. p 56 lid state physics, Aug p 76–84 [245] ts, radium, discovery of fission 1958 Feb p 76–84 [35, shell model, 1965 Aug. p 49–59 hell model, shape 1969 Aug. p 58–73, Precambrian 1976 July p 36–47, netism, 'On the count by Albert 1950 Apr p 13–17 lagnetic force, lantum jumps, Sept p 52–57 [241]
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82–87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84–92 N.S. F.: National Science Foundation N.S. F., science funding, university research, fundamental research, science education 1948 June p 7–11 science funding, university science science education, appraisal of the new institution upon its legislation 1950 July p 11–15 fundamental research, curiosity, science funding, 'mission-oriented' funding agencies, university science, introduction to a single-topic issue on fundamental questions in science 1953 Sept p 47–51 science funding, university science, fundamental research 1954 Mar p 29–33 science funding, science policy, university science, U.S. Federal funding basic and applied science 1957 Nov. p 45–49 'mission-oriented' funding agencies, science funding, institutional grants, science policy, fundamental research, project grants,	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids 1956 a uranium fission, fission products, 'synthetic' elemen isotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium 2 fission fragments atomic nucleus, charge distribution, nuclear probe, s and size of nucleus fission products, natural reactor, Oklo phenomenon reactor, uranium deposits nuclear forces, unified field theory, gravity, electromag Generalized Theory of Gravitation', a personal ac Einstein matter, wave-particle duality, energy levels, electrom gravitation, field theory, fundamental research, qu corpuscular streams, what is matter? 1953 3 electromagnetic force, proton, neutron, mesons, par	1964 Nov. p 56 lid state physics, Aug p 76–84 [245] ts, radium, discovery of fission 1958 Feb p 76–84 [35, shell model, 1965 Aug. p 49–59 hell model, shape 1969 Aug. p 58–73, Precambrian 1976 July p 36–47, netism. On the count by Albert 1950 Apr p 13–17 lagnetic force, lantum jumps, Sept p 52–57 [241] ticle scattering.
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82–87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84–92 N.S. F.: National Science Foundation N.S. F., science funding, university research, fundamental research, science education 1948 June p 7–11 science funding, university science science education, appraisal of the new institution upon its legislation 1950 July p 11–15 fundamental research, curiosity, science funding, 'mission-oriented' funding agencies, university science, introduction to a single-topic issue on fundamental questions in science 1953 Sept p 47–51 science funding, university science, fundamental research 1954 Mar p 29–33 science funding, science policy, university science, U.S. Federal funding basic and applied science 1957 Nov. p 45–49 'mission-oriented' funding agencies, science funding, institutional grants, science policy, fundamental research, project grants, university science, problems in government support of science in the	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids 1956 a uranium fission, fission products, 'synthetic' elemen isotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium 2 fission fragments atomic nucleus, charge distribution, nuclear probe, s and size of nucleus fission products, natural reactor, Oklo phenomenon reactor, uranium deposits nuclear forces, unified field theory, gravity, electromag Generalized Theory of Gravitation', a personal ac Einstein matter, wave-particle duality, energy levels, electrom gravitation, field theory, fundamental research, qu corpuscular streams, what is matter? 1953 3 electromagnetic force, proton, neutron, mesons, par	1964 Nov. p 56 lid state physics, Aug p 76–84 [245] ts, radium, discovery of fission 1958 Feb p 76–84 [35, shell model, 1965 Aug. p 49–59 hell model, shape 1969 Aug. p 58–73, Precambrian 1976 July p 36–47, netism. On the count by Albert 1950 Apr p 13–17 lagnetic force, lantum jumps, Sept p 52–57 [241] ticle scattering.
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82–87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84–92 N.S. F.: National Science Foundation N.S. F., science funding, university research, fundamental research, science education 1948 June p 7–11 science funding, university science science education, appraisal of the new institution upon its legislation 1950 July p 11–15 fundamental research, curiosity, science funding, 'mission-oriented' funding agencies, university science, introduction to a single-topic issue on fundamental questions in science 1953 Sept p 47–51 science funding, university science, fundamental research 1954 Mar p 29–33 science funding, science policy, university science, U.S. Federal funding basic and applied science 1957 Nov. p 45–49 'mission-oriented' funding agencies, science funding, institutional grants, science policy, fundamental research, project grants, university science, problems in government support of science in the U.S.	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids 1956 uranium fission, fission products, 'synthetic' elemen isotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium 2 fission fragments atomic nucleus, charge distribution, nuclear probe, s and size of nucleus fission products, natural reactor, Oklo phenomenon reactor, uranium deposits nuclear forces, unified field theory, gravity, electromag Generalized Theory of Gravitation', a personal ac Einstein matter, wave-particle duality, energy levels, electrom gravitation, field theory, fundamental research, qu corpuscular streams, what is matter? 1953 s electromagnetic force, proton, neutron, mesons, part high-energy physics, fundamental research, what i	1964 Nov. p 56 lid state physics, Aug p 76-84 [245] ts, radium, discovery of fission 1958 Feb p 76-84 [35, shell model, 1965 Aug. p 49-59 hell model, shape 1969 Aug. p 58-73. Precambrian 1976 July p 36-47 inetism, 'On the count by Albert 1950 Apr p 13-17 lagnetic force, lantum jumps, Sept p 52-57 [241] ticle scattering, holds the nucleus
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82–87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84–92 N.S. F.: National Science Foundation N.S. F., science funding, university research, fundamental research, science education 1948 June p 7–11 science funding, university science science education, appraisal of the new institution upon its legislation 1950 July p 11–15 fundamental research, curiosity, science funding, 'mission-oriented' funding agencies, university science, introduction to a single-topic issue on fundamental questions in science 1953 Sept p 47–51 science funding, university science, fundamental research 1954 Mar p 29–33 science funding, science policy, university science, U.S. Federal funding basic and applied science 1957 Nov. p 45–49 'mission-oriented' funding agencies, science funding, institutional grants, science policy, fundamental research, project grants, university science, problems in government support of science in the U.S 1965 July p 19–25 peer review, research funding, university science, science policy,	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids 1956 a uranium fission, fission products, 'synthetic' elemen isotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium 2 fission fragments atomic nucleus, charge distribution, nuclear probe, s and size of nucleus fission products, natural reactor, Oklo phenomenon reactor, uranium deposits nuclear forces, unified field theory, gravity, electromag Generalized Theory of Gravitation', a personal ac Einstein matter, wave-particle duality, energy levels, electrom gravitation, field theory, fundamental research, qu corpuscular streams, what is matter? 1953 s electromagnetic force, proton, neutron, mesons, part high-energy physics, fundamental research, what i together?	1964 Nov. p 56 lid state physics, Aug p 76–84 [245] ts, radium, discovery of fission 1958 Feb p 76–84 [35, shell model, 1965 Aug. p 49–59 hell model, shape 1969 Aug. p 58–73. Precambrian 1976 July p 36–47 metism. On the count by Albert 1950 Apr p 13–17 lagnetic force, lantum jumps, Sept p 52–57 [241] ticle scattering, holds the nucleus 1953 Sept p 58–63
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82–87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84–92 N.S. F.: National Science Foundation N.S. F., science funding, university research, fundamental research, science education 1948 June p 7–11 **Cience funding, university science science education, appraisal of the new institution upon its legislation 1950 July p 11–15 fundamental research, curiosity, science funding, mission-oriented funding agencies, university science, introduction to a single-topic issue on fundamental questions in science 1953 Sept p 47–51 science funding, university science, fundamental research 1954 Mar p 29–33 science funding, science policy, university science, U.S. Federal funding basic and applied science 1957 Nov. p 45–49 'mission-oriented' funding agencies, science funding, institutional grants, science policy, fundamental research, project grants, university science, problems in government support of science in the U.S. 1967 Oct. p. 34–41 [698]	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids 1956. uranium fission, fission products, 'synthetic' elemen isotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium 2 fission fragments atomic nucleus, charge distribution, nuclear probe, s and size of nucleus fission products, natural reactor, Oklo phenomenon reactor, uranium deposits nuclear forces, unified field theory, gravity, electromag Generalized Theory of Gravitation', a personal ac Einstein matter, wave-particle duality, energy levels, electrom gravitation, field theory, fundamental research, qu corpuscular streams, what is matter? 1953. electromagnetic force, proton, neutron, mesons, part high-energy physics, fundamental research, what i together? alpha clustering, alpha particles atomic nucleus, ele	1964 Nov. p 56 lid state physics, Aug p 76–84 [245] ts, radium, discovery of fission 1958 Feb p 76–84 [35, shell model, 1965 Aug. p 49–59 hell model, shape 1969 Aug. p 58–73. Precambrian 1976 July p 36–47 metism. On the count by Albert 1950 Apr p 13–17 lagnetic force, lantum jumps, Sept p 52–57 [241] ticle scattering. 1953 Sept p 58–63 mentary particles
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82–87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84–92 N.S. F.: National Science Foundation N.S. F., science funding, university research, fundamental research, science education 1948 June p 7–11 science funding, university science science education, appraisal of the new institution upon its legislation 1950 July p 11–15 fundamental research, curiosity, science funding, 'mission-oriented' funding agencies, university science, introduction to a single-topic issue on fundamental questions in science 1953 Sept p 47–51 science funding, university science, fundamental research 1954 Mar p 29–33 science funding, science policy, university science, U.S. Federal funding basic and applied science 1957 Nov. p 45–49 'mission-oriented' funding agencies, science funding, institutional grants, science policy, fundamental research, project grants, university science, problems in government support of science in the U.S. 1965 July p 19–25 peer review, research funding, university science, science policy, sociology of science 1977 Oct. p. 34–41 [698] new bill before Congress	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids 1956 a uranium fission, fission products, 'synthetic' elemen isotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium 2 fission fragments atomic nucleus, charge distribution, nuclear probe, s and size of nucleus fission products, natural reactor, Oklo phenomenon reactor, uranium deposits nuclear forces, unified field theory, gravity, electromag Generalized Theory of Gravitation', a personal ac Einstein matter, wave-particle duality, energy levels, electrom gravitation, field theory, fundamental research, qu corpuscular streams, what is matter? 1953 s electromagnetic force, proton, neutron, mesons, part high-energy physics, fundamental research, what i together? alpha clustering, alpha particles atomic nucleus, ele nuclear clustering, neutron, nuclear surface, proto	1964 Nov. p 56 lid state physics, Aug p 76–84 [245] ts, radium, discovery of fission 1958 Feb p 76–84 [35, shell model, 1965 Aug. p 49–59 hell model, shape 1969 Aug. p 58–73, Precambrian 1976 July p 36–47 metism, 'On the count by Albert 1950 Apr p 13–17 lagnetic force, lantum jumps, Sept p 52–57 [241] ticle scattering, holds the nucleus 1953 Sept p 58–63 mentary particles, n
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82–87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84–92 N.S. F.; National Science Foundation N.S. F., science funding, university research, fundamental research, science education 1948 June p 7–11 science funding, university science science education, appraisal of the new institution upon its legislation 1950 July p 11–15 fundamental research, curiosity, science funding, 'mission-oriented' funding agencies, university science, introduction to a single-topic issue on fundamental questions in science 1953 Sept p 47–51 science funding, university science, fundamental research 1954 Mar p 29–33 science funding, science policy, university science, U.S. Federal funding basic and applied science 1957 Nov. p 45–49 'mission-oriented' funding agencies, science funding, institutional grants, science policy, fundamental research, project grants, university science, problems in government support of science in the U.S. 1965 July p 19–25 peer review, research funding, university science, science policy, sociology of science 1977 Oct p 34–41 [698] 1948 May p 32 1948 July p 30 1948 July p 30	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids 1956 a uranium fission, fission products, 'synthetic' elemen isotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium 2 fission fragments atomic nucleus, charge distribution, nuclear probe, s and size of nucleus fission products, natural reactor, Oklo phenomenon reactor, uranium deposits nuclear forces, unified field theory, gravity, electromag Generalized Theory of Gravitation', a personal ac Einstein matter, wave-particle duality, energy levels, electrom gravitation, field theory, fundamental research, qu corpuscular streams, what is matter? 1953 s electromagnetic force, proton, neutron, mesons, part high-energy physics, fundamental research, what i together? alpha clustering, alpha particles atomic nucleus, ele nuclear clustering, neutron, nuclear surface, proto	1964 Nov. p 56 lid state physics, Aug p 76–84 [245] ts, radium, discovery of fission 1958 Feb p 76–84 [35, shell model, 1965 Aug. p 49–59 hell model, shape 1969 Aug. p 58–73, Precambrian 1976 July p 36–47 netism. On the count by Albert 1950 Apr p 13–17 lagnetic force, lantum jumps, Sept p 52–57 [241] ticle scattering. Holds the nucleus 1953 Sept p 58–63 mentary particles, in 172 Oct. p. 100–108
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82–87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84–92 N.S. F.: National Science Foundation N.S. F., science funding, university research, fundamental research, science education 1948 June p 7–11 **Cience funding, university science science education, appraisal of the new institution upon its legislation 1950 July p 11–15 fundamental research, curiosity, science funding, mission-oriented funding agencies, university science, introduction to a single-topic issue on fundamental questions in science 1953 Sept p 47–51 **science funding, university science, fundamental research 1954 Mar p 29–33 **science funding, science policy, university science, U.S. Federal funding basic and applied science 1957 Nov. p 45–49 **mission-oriented* funding agencies, science funding, institutional grants, science policy, fundamental research, project grants, university science, problems in government support of science in the U.S. 1965 July p 19–25 **peer review, research funding, university science, science policy, sociology of science 1977 Oct. p 34–41 [698] 1948 May p 32 **loves in Congress 1948 May p 32 **loves in Congress 1948 July p 30	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids uranium fission, fission products, 'synthetic' elemen isotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium 2 fission fragments atomic nucleus, charge distribution, nuclear probe, s and size of nucleus fission products, natural reactor, Oklo phenomenon reactor, uranium deposits nuclear forces, unified field theory, gravity, electromag Generalized Theory of Gravitation', a personal ac Einstein matter, wave-particle duality, energy levels, electrom gravitation, field theory, fundamental research, qu corpuscular streams, what is matter? 1953 's electromagnetic force, proton, neutron, mesons, part high-energy physics, fundamental research, what i together' alpha clustering, alpha particles atomic nucleus, ele nuclear clustering, neutron, nuclear surface, proto	1964 Nov. p 56 Ind state physics, Aug p 76–84 [245] Is, radium, Iss, radium, 1958 Feb p 76–84 Iss, shell model, 1965 Aug. p 49–59 hell model, shape 1969 Aug. p 58–73, Precambrian 1976 July p 36–47, Inetism, On the count by Albert 1950 Apr p 13–17 Inagnetic force, Isantum jumps, Sept p 52–57 [241] Incle scattering, Inolds the nucleus 1953 Sept p 58–63 Incle mentary particles, Incle 100–108 Incle weapon
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82–87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84–92 N.S. F.: National Science Foundation N.S. F., science funding, university research, fundamental research, science education 1948 June p 7–11 science funding, university science science education, appraisal of the new institution upon its legislation 1950 July p 11–15 fundamental research, curiosity, science funding, 'mission-oriented' funding agencies, university science, introduction to a single-topic issue on fundamental questions in science 1953 Sept p 47–51 science funding, university science, fundamental research 1954 Mar p 29–33 science funding, science policy, university science, U.S. Federal funding basic and applied science 1957 Nov. p 45–49 'mission-oriented' funding agencies, science funding, institutional grants, science policy, fundamental research, project grants, university science, problems in government support of science in the U.S. 1965 July p 19–25 peer review, research funding, university science, science policy, sociology of science 1977 Oct. p. 34–41 [698] new bill before Congress 1948 May p. 32 loses in Congress 1948 May p. 32 legislation revived 1949 Aug. p. 25	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids 1956 a uranium fission, fission products, 'synthetic' elemen isotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium 2 fission fragments atomic nucleus, charge distribution, nuclear probe, s and size of nucleus fission products, natural reactor, Oklo phenomenon reactor, uranium deposits nuclear forces, unified field theory, gravity, electromag Generalized Theory of Gravitation', a personal ac Einstein matter, wave-particle duality, energy levels, electrom gravitation, field theory, fundamental research, qu corpuscular streams, what is matter? 1953; electromagnetic force, proton, neutron, mesons, par high-energy physics, fundamental research, what i together? alpha clustering, alpha particles atomic nucleus, ele nuclear clustering, neutron, nuclear surface, proto 19 nuclear-free zones, nuclear nonproliferation treaty, ato proliferation Treaty of Hatelolco	1964 Nov. p 56 hid state physics, Aug p 76–84 [245] ts, radium, discovery of fission 1958 Feb p 76–84 135, shell model, 1965 Aug. p 49–59 hell model, shape 1969 Aug. p 58–73 , Precambrian 1976 July p 36–47 metism, 'On the count by Albert 1950 Apr p 13–17 hagnetic force, lantum jumps, Sept p 52–57 [241] ticle scattering, holds the nucleus 1953 Sept p 58–63 mentary particles, n 172 Oct p 100–108 mic-weapon 1975 Nov. p 25–35
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82–87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84–92 N.S. F.; National Science Foundation N.S. F., science funding, university research, fundamental research, science education 1948 June p 7–11 science funding, university science science education, appraisal of the new institution upon its legislation 1950 July p 11–15 fundamental research, curiosity, science funding, 'mission-oriented' funding agencies, university science, introduction to a single-topic issue on fundamental questions in science 1953 Sept p 47–51 science funding, university science, fundamental research 1954 Mar p 29–33 science funding, science policy, university science, U.S. Federal funding basic and applied science 1957 Nov. p 45–49 'mission-oriented' funding agencies, science funding, institutional grants, science policy, fundamental research, project grants, university science, problems in government support of science in the U.S. 1965 July p 19–25 peer review, research funding, university science, science policy, sociology of science 1977 Oct. p 34–41 [698] new bill before Congress 1948 May p 32 legislation revived 1949 Aug. p 25 legislation fulk aguin 1949 Dec. p 27	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids 1956 a uranium fission, fission products, 'synthetic' elemen isotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium 2 fission fragments atomic nucleus, charge distribution, nuclear probe, s and size of nucleus fission products, natural reactor, Oklo phenomenon reactor, uranium deposits nuclear forces, unified field theory, gravity, electromag Generalized Theory of Gravitation', a personal ac Einstein matter, wave-particle duality, energy levels, electrom gravitation, field theory, fundamental research, qi corpuscular streams, what is matter? 1953 s electromagnetic force, proton, neutron, mesons, part high-energy physics, fundamental research, what i together? alpha clustering, alpha particles atomic nucleus, ele nuclear clustering, neutron, nuclear surface, proto 19 nuclear-free zones, nuclear nonproliferation treaty, ato proliferation Treaty of Tlatelolco nuclear fuel, 'atoms for peace', nuclear power, fuel-eler	1964 Nov. p 56 hid state physics, Aug p 76–84 [245] ts, radium, discovery of fission 1958 Feb p 76–84 135, shell model, 1965 Aug. p 49–59 hell model, shape 1969 Aug. p 58–73 , Precambrian 1976 July p 36–47 metism, 'On the count by Albert 1950 Apr p 13–17 hagnetic force, lantum jumps, Sept p 52–57 [241] ticle scattering, holds the nucleus 1953 Sept p 58–63 mentary particles, n 172 Oct p 100–108 mic-weapon 1975 Nov. p 25–35
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82–87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84–92 N.S. F.: National Science Foundation N.S. F., science funding, university research, fundamental research, science education 1948 June p 7–11 science funding, university science science education, appraisal of the new institution upon its legislation 1950 July p 11–15 fundamental research, curiosity, science funding, 'mission-oriented' funding agencies, university science, introduction to a single-topic issue on fundamental questions in science 1953 Sept p 47–51 science funding, university science, fundamental research 1954 Mar p 29–33 science funding, science policy, university science. U.S. Federal funding basic and applied science 1957 Nov. p 45–49 'mission-oriented' funding agencies, science funding, institutional grants, science policy, fundamental research, project grants, university science, problems in government support of science in the U.S. 1965 July p 19–25 peer review, research funding, university science, science policy, sociology of science 1977 Oct. p 34–41 [698] new bill before Congress 1948 May p 32 legislation fewed 1949 Aug. p 25 legislation fewed 1949 Dec. p 27 legislation filis aguin 1949 Dec. p 27 legislation filis aguin 1949 Dec. p 27	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids uranium fission, fission products, 'synthetic' elemen isotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium 2 fission fragments atomic nucleus, charge distribution, nuclear probe, s and size of nucleus fission products, natural reactor, Oklo phenomenon reactor, uranium deposits nuclear forces, unified field theory, gravity, electromag Generalized Theory of Gravitation', a personal ac Einstein matter, wave-particle duality, energy levels, electrom gravitation, field theory, fundamental research, qu corpuscular streams, what is matter? 1953 'electromagnetic force, proton, neutron, mesons, part high-energy physics, fundamental research, what i together' alpha clustering, alpha particles atomic nucleus, ele nuclear clustering, neutron, nuclear surface, proto 19 nuclear-free zones, nuclear nonproliferation treaty, ato proliferation Treaty of Tlatelolco nuclear fuel, 'atoms for peace', nuclear power, fuel-eler uranium ore, Geneva chemistry	1964 Nov. p 56 Ind state physics, Aug p 76–84 [245] Is, radium, Iss, radium, 1958 Feb p 76–84 Iss, shell model, 1965 Aug. p 49–59 hell model, shape 1969 Aug. p 58–73 Index p 58–73 Index p 58–73 Index p 58–73 Index p 13–17 Inde
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82–87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84–92 N.S. F.: National Science Foundation N.S. F., science funding, university research, fundamental research, science education 1948 June p 7–11 **Cience funding, university science science education, appraisal of the new institution upon its legislation 1950 July p 11–15 fundamental research, curiosity, science funding, mission-oriented funding agencies, university science, introduction to a single-topic issue on fundamental questions in science 1953 Sept p 47–51 **science funding, university science, fundamental research 1954 Mar p 29–33 **science funding, science policy, university science, U.S. Federal funding basic and applied science 1957 Nov. p 45–49 **mission-oriented* funding agencies, science funding, institutional grants, science policy, fundamental research, project grants, university science, problems in government support of science in the U.S. 1965 July p 19–25 **peer review, research funding, university science, science policy, sociology of science 1977 Oct. p 34–41 [698] **new bill before Congress 1948 May p 32 **loses in Congress 1948 May p 32 **loses in Congress 1948 May p 32 **loses in Congress 1948 May p 32 **logislation favived 1949 Aug. p 25 **logislation favived 1950 June p 26	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids uranium fission, fission products, 'synthetic' elemen isotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium 2 fission fragments atomic nucleus, charge distribution, nuclear probe, s and size of nucleus fission products, natural reactor, Oklo phenomenon reactor, uranium deposits nuclear forces, unified field theory, gravity, electromag Generalized Theory of Gravitation', a personal ac Einstein matter, wave-particle duality, energy levels, electrom gravitation, field theory, fundamental research, qu corpuscular streams, what is matter? 1953 'electromagnetic force, proton, neutron, mesons, part high-energy physics, fundamental research, what i together' alpha clustering, alpha particles atomic nucleus, ele nuclear clustering, neutron, nuclear surface, proto 19 nuclear-free zones, nuclear nonproliferation treaty, ato proliferation Treaty of Tlatelolco nuclear fuel, 'atoms for peace', nuclear power, fuel-eler uranium ore, Geneva chemistry	1964 Nov. p 56 Ind state physics, Aug p 76–84 [245] Is, radium, Iss, radium, 1958 Feb p 76–84 Iss, shell model, 1965 Aug. p 49–59 hell model, shape 1969 Aug. p 58–73 Index p 58–73 Index p 58–73 Index p 58–73 Index p 13–17 Inde
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82–87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84–92 N.S. F.: National Science Foundation N.S. F., science funding, university research, fundamental research, science education 1948 June p 7–11 **Cience funding, university science science education, appraisal of the new institution upon its legislation 1950 July p 11–15 fundamental research, curiosity, science funding, mission-oriented funding agencies, university science, introduction to a single-topic issue on fundamental questions in science 1953 Sept p 47–51 **science funding, university science, fundamental research 1954 Mar p 29–33 **science funding, science policy, university science, U.S. Federal funding basic and applied science 1957 Nov. p 45–49 **mission-oriented* funding agencies, science funding, institutional grants, science policy, fundamental research, project grants, university science, problems in government support of science in the U.S. 1965 July p 19–25 **peer review, research funding, university science, science policy, sociology of science 1977 Oct. p 34–41 [698] **new bill before Congress 1948 May p 32 **loses in Congress 1948 May p 32 **legislation fails again 1949 Aug. p 25 **legislation fails again 1949 Dec. p 27 **legislation fails again 1950 June p 26 **no appropriation 1950 Oct. p 24	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids 1956 a uranium fission, fission products, 'synthetic' elemen isotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium 2 fission fragments atomic nucleus, charge distribution, nuclear probe, s and size of nucleus fission products, natural reactor, Oklo phenomenon reactor, uranium deposits nuclear forces, unified field theory, gravity, electromag Generalized Theory of Gravitation', a personal ac Einstein matter, wave-particle duality, energy levels, electrom gravitation, field theory, fundamental research, qu corpuscular streams, what is matter? 1953 s electromagnetic force, proton, neutron, mesons, part high-energy physics, fundamental research, what i together? alpha clustering, alpha particles atomic nucleus, ele nuclear clustering, neutron, nuclear surface, proto 10 nuclear-free zones, nuclear nonproliferation treaty, ato proliferation Treaty of Tlatelolco nuclear fuel, 'atoms for peace', nuclear power, fuel-eler uranium ore, Geneva chemistry fission reactor, nuclear power, Purex process, reproc	1964 Nov. p 56 Ind state physics, Aug p 76–84 [245] Ist, radium, discovery of fission 1958 Feb p 76–84 135, shell model, 1965 Aug. p 49–59 hell model, shape 1969 Aug. p 58–73 Precambrian 1976 July p 36–47 Inetism, 'On the count by Albert 1950 Apr p 13–17 Ingnetic force, Inantum jumps, Sept p 52–57 [241] Incle scattering, Inolds the nucleus 1953 Sept p 58–63 Incle scattering, Incle scatte
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82–87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84–92 N S F.: National Science Foundation N.S F., science funding, university research, fundamental research, science education 1948 June p 7–11 science funding, university science science education, appraisal of the new institution upon its legislation 1950 July p 11–15 fundamental research, curiosity, science funding, 'mission-oriented' funding agencies, university science, introduction to a single-topic issue on fundamental questions in science 1953 Sept p 47–51 science funding, university science, fundamental research 1954 Mar p 29–33 science funding, science policy, university science. U S Federal funding basic and applied science 1957 Nov. p 45–49 'mission-oriented' funding agencies, science funding, institutional grants, science policy, fundamental research, project grants, university science, problems in government support of science in the U S 1965 July p 19–25 peer review, research funding, university science, science policy, sociology of science 1977 Oct p 34–41 [698] 1948 May p 32 legislation fewed 1949 Aug p 25 legislation fewed 1950 Oct p 24 legislation fulk aguin 1950 Oct p 24	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids 1956 a uranium fission, fission products, 'synthetic' elemen isotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium 2 fission fragments atomic nucleus, charge distribution, nuclear probe, s and size of nucleus fission products, natural reactor, Oklo phenomenon reactor, uranium deposits nuclear forces, unified field theory, gravity, electromag Generalized Theory of Gravitation', a personal ac Einstein matter, wave-particle duality, energy levels, electrom gravitation, field theory, fundamental research, qu corpuscular streams, what is matter? 1953 s electromagnetic force, proton, neutron, mesons, part high-energy physics, fundamental research, what i together? alpha clustering, alpha particles atomic nucleus, ele nuclear clustering, neutron, nuclear surface, proto surface, proto nuclear free zones, nuclear nonproliferation treaty, ato proliferation Treaty of Tlatelolco nuclear fuel, 'atoms for peace', nuclear power, fuel-eler uranium ore, Geneva chemistry fission reactor, nuclear power, Purex process, reproc	1964 Nov. p 56 lid state physics, Aug p 76–84 [245] is, radium, discovery of fission 1958 Feb p 76–84 [35, shell model, 1965 Aug. p 49–59 hell model, shape 1969 Aug. p 58–73, Precambrian 1976 July p 36–47 inctism, 'On the count by Albert 1950 Apr p 13–17 iagnetic force, iantium jumps, Sept p 52–57 [241] itsele scattering, holds the nucleus 1953 Sept p 58–63 mentary particles, in 172 Oct p 100–108 imic-weapon 1975 Nov p 25–35 nent fabrication, 1955 Oct p 34–37 essing
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82–87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84–92 N.S. F.: National Science Foundation N.S. F., science funding, university research, fundamental research, science education 1948 June p 7–11 science funding, university science science education, appraisal of the new institution upon its legislation 1950 July p 11–15 fundamental research, curiosity, science funding, 'mission-oriented' funding agencies, university science, introduction to a single-topic issue on fundamental questions in science 1953 Sept p 47–51 science funding, university science, fundamental research 1954 Mar p 29–33 science funding, science policy, university science, U.S. Federal funding basic and applied science 1957 Nov. p 45–49 'mission-oriented' funding agencies, science funding, institutional grants, science policy, fundamental research, project grants, university science, problems in government support of science in the U.S. 1965 July p 19–25 peer review, research funding, university science, science policy, sociology of science 1977 Oct. p 34–41 [698] legislation fulk aguin legislation fulk aguin legislation fulk aguin 1950 Apr. p 30 legislation fulk aguin 1950 Apr. p 30 1950 Nov. p 25 board members appointed	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids 1956 a uranium fission, fission products, 'synthetic' elemen isotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium 2 fission fragments atomic nucleus, charge distribution, nuclear probe, s and size of nucleus fission products, natural reactor, Oklo phenomenon reactor, uranium deposits nuclear forces, unified field theory, gravity, electromag Generalized Theory of Gravitation', a personal ac Einstein matter, wave-particle duality, energy levels, electrom gravitation, field theory, fundamental research, qu corpuscular streams, what is matter? 1953 s electromagnetic force, proton, neutron, mesons, part high-energy physics, fundamental research, what i together? alpha clustering, alpha particles atomic nucleus, ele nuclear clustering, neutron, nuclear surface, proto 19 nuclear-free zones, nuclear nonproliferation treaty, ato proliferation Treaty of Tlatelolco nuclear fuel, 'atoms for peace', nuclear power, fuel-eler uranium ore, Geneva chemistry fission reactor, nuclear power, Purex process, reproc	1964 Nov. p 56 Ind state physics, Aug p 76–84 [245] Its, radium, Its, radium, 1958 Feb p 76–84 Iss, shell model, 1965 Aug. p 49–59 hell model, shape 1969 Aug. p 58–73 Inecambrian 1976 July p 36–47 Inetism, 'On the count by Albert 1950 Apr p 13–17 Inagnetic force, Inantium jumps, Sept p 52–57 [241] Incle scattering, I
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82–87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84–92 N.S. F.; National Science Foundation N.S. F., science funding, university research, fundamental research, science education 1948 June p 7–11 science funding, university science science education, appraisal of the new institution upon its legislation 1950 July p 11–15 fundamental research, curiosity, science funding, mission-oriented' funding agencies, university science, introduction to a single-topic issue on fundamental questions in science 1953 Sept p 47–51 science funding, university science, fundamental research 1954 Mar p 29–33 science funding, science policy, university science, U.S. Federal funding basic and applied science 1957 Nov. p 45–49 'mission-oriented' funding agencies, science funding, institutional grants, science policy, fundamental research, project grants, university science, problems in government support of science in the U.S. 1965 July p 19–25 peer review, research funding, university science, science policy, sociology of science 1977 Oct p 34–41 [698] legislation fulk aguin 1949 Dec. p 27 legislation fulk aguin 1949 Dec. p 27 legislation fulk aguin 1950 Apr p 30 cyablished by Congress 1950 Nov. p 25 board members appointed Waterman at helm 1951 July p 39 1950 Dec. p 26 1951 Nov. p 25 1950 Dec. p 26 1951 Nov. p 25	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids uranium fission, fission products, 'synthetic' elemen isotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium 2 fission fragments atomic nucleus, charge distribution, nuclear probe, s and size of nucleus fission products, natural reactor, Oklo phenomenon reactor, uranium deposits nuclear forces, unified field theory, gravity, electromag Generalized Theory of Gravitation', a personal ac Einstein matter, wave-particle duality, energy levels, electrom gravitation, field theory, fundamental research, qi corpuscular streams, what is matter? 1953' electromagnetic force, proton, neutron, mesons, par high-energy physics, fundamental research, what i together? alpha clustering, alpha particles atomic nucleus, ele nuclear clustering, neutron, nuclear surface, proto 19 nuclear-free zones, nuclear nonproliferation treaty, ato proliferation Treaty of Tlatelolco nuclear fuel, 'atoms for peace', nuclear power, fuel-eler uranium ore, Geneva chemistry fission reactor, nuclear power, Purex process, reproce	1964 Nov. p 56 hld state physics, Aug p 76–84 [245] ts, radium, discovery of fission 1958 Feb p 76–84 135, shell model, 1965 Aug. p 49–59 hell model, shape 1969 Aug. p 58–73 Precambrian 1976 July p 36–47 Inetism, 'On the count by Albert 1950 Apr p 13–17 lagnetic force, lantium jumps, Sept p 52–57 [241] ticle scattering, holds the nucleus 1953 Sept p 58–63 mentary particles, n 172 Oct p 100–108 minic-weapon 1975 Nov p 25–35 ment fabrication, 1955 Oct p 34–37 essing 1976 Dec p 30–41 1964 Oct p 57 1976 Jan p 56
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82–87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84–92 N.S. F.: National Science Foundation N.S. F., science funding, university research, fundamental research, science education 1948 June p 7–11 science funding, university science science education, appraisal of the new institution upon its legislation 1950 July p 11–15 fundamental research, curiosity, science funding, 'mission-oriented' funding agencies, university science, introduction to a single-topic issue on fundamental questions in science 1953 Sept p 47–51 science funding, university science, fundamental research 1954 Mar p 29–33 science funding, science policy, university science, U.S. Federal funding basic and applied science 1957 Nov. p 45–49 'mission-oriented' funding agencies, science funding, institutional grants, science policy, fundamental research, project grants, university science, problems in government support of science in the U.S. 1965 July p 19–25 peer review, research funding, university science, science policy, sociology of science 1977 Oct. p 34–41 [698] 1984 May p 32 legislation fulk aguin legislation fewed 1994 Aug. p 25 legislation fulk aguin legislation fewed 1950 Oct. p 24 1950 Nov. p 25 board members appointed Waterman at helm 1951 Apr. p 32	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids uranium fission, fission products, 'synthetic' elemen isotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium 2 fission fragments atomic nucleus, charge distribution, nuclear probe, s and size of nucleus fission products, natural reactor, Oklo phenomenon reactor, uranium deposits nuclear forces, unified field theory, gravity, electromag Generalized Theory of Gravitation', a personal ac Einstein matter, wave-particle duality, energy levels, electrom gravitation, field theory, fundamental research, qi corpuscular streams, what is matter? 1953 'electromagnetic force, proton, neutron, mesons, part high-energy physics, fundamental research, what i together' alpha clustering, alpha particles atomic nucleus, ele nuclear clustering, neutron, nuclear surface, proto 19 nuclear-free zones, nuclear nonproliferation treaty, ato proliferation Treaty of Tlatelolco nuclear fuel, 'atoms for peace', nuclear power, fuel-eler uranium ore, Geneva chemistry fission reactor, nuclear power, Purex process, reproce private ownership legal in U S reprocessing nuclear fuel cutback, economic implications	1964 Nov. p 56 hld state physics, Aug p 76–84 [245] ts, radium, discovery of fission 1958 Feb p 76–84 135, shell model, 1965 Aug. p 49–59 hell model, shape 1969 Aug. p 58–73 Precambrian 1976 July p 36–47 Inetism, 'On the count by Albert 1950 Apr p 13–17 lagnetic force, lantium jumps, Sept p 52–57 [241] ticle scattering, holds the nucleus 1953 Sept p 58–63 mentary particles, n 172 Oct p 100–108 minic-weapon 1975 Nov p 25–35 ment fabrication, 1955 Oct p 34–37 essing 1976 Dec p 30–41 1964 Oct p 57 1976 Jan p 56
novelty, attention, learning, physiological psychology, conflict, monotony, conflict and arousal, aid to learning 1966 Aug p 82–87 [500] nozzles, aerospace technology, Coanda effect, fluid dynamics, aerodynamics propulsion burners, nature and applications of Coanda effect 1966 June p 84–92 N.S. F.; National Science Foundation N.S. F., science funding, university research, fundamental research, science education 1948 June p 7–11 science funding, university science science education, appraisal of the new institution upon its legislation 1950 July p 11–15 fundamental research, curiosity, science funding, 'mission-oriented' funding agencies, university science, introduction to a single-topic issue on fundamental questions in science 1953 Sept p 47–51 science funding, university science, fundamental research 1954 Mar p 29–33 science funding, science policy, university science, U.S. Federal funding basic and applied science 1957 Nov. p 45–49 'mission-oriented' funding agencies, science funding, institutional grants, science policy, fundamental research, project grants, university science, problems in government support of science in the U.S. 1965 July p 19–25 peer review, research funding, university science, science policy, sociology of science 1977 Oct p 34–41 [698] new bill before Congress 1948 May p 32 legislation revived 1949 Aug p 25 legislation fulk aguin 1949 Dec. p 27 legislation revived 1950 Apr p 30 legislation revived 1950 Apr p 30 legislation revived 1950 Nov. p 25 board members appointed Neteronal at below	UN conference nuclear fission, crystal structure, neutron, radiation, so effects of radiation on solids uranium fission, fission products, 'synthetic' elemen isotropy, transuranium elements, science history, heavy nuclei, liquid-drop model, neutron, uranium 2 fission fragments atomic nucleus, charge distribution, nuclear probe, s and size of nucleus fission products, natural reactor, Oklo phenomenon reactor, uranium deposits nuclear forces, unified field theory, gravity, electromag Generalized Theory of Gravitation', a personal ac Einstein matter, wave-particle duality, energy levels, electrom gravitation, field theory, fundamental research, qu corpuscular streams, what is matter? 1953 's electromagnetic force, proton, neutron, mesons, part high-energy physics, fundamental research, what i together' alpha clustering, alpha particles atomic nucleus, ele nuclear clustering, neutron, nuclear surface, proto 19 nuclear-free zones, nuclear nonproliferation treaty, ato proliferation Treaty of Tlatelolco nuclear fuel, 'atoms for peace', nuclear power, fuel-eler uranium ore, Geneva chemistry fission reactor, nuclear power, Purex process, reproc private ownership legal in U S reprocessing nuclear fuel cutback, economic implications	1964 Nov. p 56 Ind state physics, Aug p 76–84 [245] Its, radium, Its, radium, 1958 Feb p 76–84 Iss, shell model, 1965 Aug. p 49–59 hell model, shape 1969 Aug. p 58–73 Inecambrian 1976 July p 36–47 Inetism, 'On the count by Albert 1950 Apr p 13–17 Inagnetic force, Inantium jumps, Sept p 52–57 [241] Incle scattering, I

nuclear fuel cycle, plutomum separation, fission products	, fission reactor,	magnetic field, plasma instability about	,
nuclear fusion, ball lightning, gas plasma, ionization, Kar	57 Tules C2 C2	magnetic field, plasma instability, thermon reactor, magnetic bottle, anomalous diffi	ision, leakage of plasma
1963	Mar p 106-116	fission reactor, energy demand, alcotton and	1967 July p 7
by laser	1957 Feb p 60 1973 Mar p 45	fission reactor, energy demand, electric pow economics, history and prospects of nucl	ear power in US
by electron beam	1073 Tules - 40	thermal pollution, industrial analysis	1968 Feb p 2
nuclear magnetic resonance, magnetic resonance, spectros	conv	thermal pollution, industrial cooling, water cooling towers, waste heat	
magnetometer, molecular structure, large molecule sp	ectroscopy	calefaction, Connecticut River, fission react	1969 Mar p 18–27 [1
molecular beam electron d	p 58–66 [233]	industrial cooling, fisheries, ecology, fish	erisis
molecular beam, electron theory, resonance absorption,	atomic		1970 May p 42-52 [1]
radiation, coherent radiation, gas molecules, Stern-Gexperiment	erlach	breeder reactor, fast neutron reactor, uranu	m cycle, thorium cycle
nuclear medicine, environmental pollution, ionizing radiat	5 May p 58–74	liquid-metal reactor, fission reactor, energ	y demand
background radiation, atomic bomb test, introduction	ion, i to single tenin		1970 Nov p 13-21 [3
tissue on ionizing radiation 1959	Sept p 74-83	recycling, materials, fusion reactor, fusion to	rch, energy
atomic bomb test, ionizing radiation, isotopes, fallout, e	nvironmental	transformation, plasma containment, mag	1971 Feb p 50-64[3
pollution, circulation of radioisotopes 1959	Sept n 84-93	fusion reactor, laser-pulse fusion, plasma phy	
atomic bomb test, radiation damage, ionizing radiation.	leukemia.	energy transformation, energy demand, fuel-	conversion efficiency
immune response, fallout, radiation damage, whole-be	ody irradiation	power, prime movers, steam turbines, mag	
1959 S	ept p 117-137	turbine, internal combustion engine, fuel co	ell, solar cells, power,
cancer therapy, isotopes, X-ray, radiotherapy, ionizing radosimetry, roentgenology, radiation use in medicine	idiation,	comparative efficiencies of energy transform	mation pathways in
	mt = 164 176		71 Sept p 148-160 [6]
cancer therapy, radiation damage, nitrogen mustard, car	ept p 164–176	fusion reactor, plasma confinement, Tokomal	, magnetic bottle 1972 July p 65-
mutation, chemical imitation of radiation injury	inogenesis,	energy conservation, fossil fuel, solar energy,	
1960	Jan p 99-108	policy of U S	1974 Jan p 20–29 [65
mutation, radiation damage, high-energy radiation, X-ra	y, no	fusion reactor, laser implosion, nuclear power,	thermonuclear reaction
threshhold to biological damage by radiation	•	plasma confinement	1974 June p 24-
1960 Apr 1	142153 [71]	fusion reactor, laser implosion, nuclear power,	thermonuclear reaction
nuclear membrane, cell membrane, electron microscopy, en	doplasmic	plasma confinement	1974 June p 24-
reticulum, myelin sheath, mitochondria, electron micro		CANDU reactor, natural reactor, heavy-water	1975 Oct p 17-
of membranes in cell 1962 Apr nuclear nonproliferation treaty, India as atomic power, 'nuc	p 64-72 [151]	CANDU system	
	Apr p 18-33	fission reactor, nuclear fuel, Purex process, rep	1976 Dec p 30-
nuclear-free zones, atomic-weapon proliferation, Treaty of	f Tlatelolco	breeder reactor, fast neutron reactor, fission rea	actor. Superphenix in
,			
1975	Nov p 25-35	France	1977 Mar p 20-3
US-USSR draft	Nov p 25–35 967 Oct p 48	France environmental pollution fission reactor public	health, radioactive
US-USSR draft 19 UN Assembly approval 19	Nov p 25–35 967 Oct p 48 968 July p 48	France environmental pollution, fission reactor, public waste disposal, underground storage	health, radioactive 977 June p 21-31 [36]
US-USSR draft UN Assembly approval vertical proliferation 19	Nov p 25–35 967 Oct p 48 968 July p 48 75 Aug p 46	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plui	health, radioactive 977 June p 21-31 [36- conium fuel cycle
US-USSR draft UN Assembly approval vertical proliferation 19 nuclear physics, atomic nucleus, high-energy physics, particl	Nov p 25–35 967 Oct p 48 968 July p 48 75 Aug p 46 e-scattering	France environmental pollution, fission reactor, public waste disposal, underground storage atomic-weapon proliferation, arms control, plus	health, radioactive 977 June p 21-31 [36- conjum fuel cycle feration of atomic 78 Apr. p 45-57 [3004]
US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particl experiments, electron scattering, models of the atomic re	Nov p 25-35 067 Oct p 48 068 July p 48 75 Aug p 46 e-scattering	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plui breeder reactor, U S energy policy and prolif weapons 19	health, radioactive 977 June p 21–31 [36- continum fuel cycle eration of atomic 78 Apr p 45–57 [3004 1948 Sept p 2]
US-USSR draft UN Assembly approval vertical proliferation 19 nuclear physics, atomic nucleus, high-energy physics, particl experiments, electron scattering, models of the atomic re 1956 July p	Nov p 25–35 967 Oct p 48 968 July p 48 75 Aug p 46 e-scattering jucleus p 55–68 [217]	France environmental pollution, fission reactor, public waste disposal, underground storage atomic-weapon proliferation, arms control, plus	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36- ionium fuel cycle eration of atomic 78 Apr p 45-57 [3004 1948 Sept p 21 1948 Nov p 2-
US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particl experiments, electron scattering, models of the atomic r 1956 July p nuclear power, A E C, atomic weapons, science funding, uni research, military secrecy	Nov p 25–35 967 Oct p 48 968 July p 48 75 Aug p 46 e-scattering sucleus o 55–68 [217] versity July p 30–43	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plui breeder reactor, US energy policy and prolif weapons 19 A E C, optimistic report first on stream Lilienthal calls for private ownership	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36- tonium fuel cycle teration of atomic 78 Apr p 45-57 [3004 1948 Sept p 21 1948 Nov p 2- 1950 Aug p 21
US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particl experiments, electron scattering, models of the atomic r 1956 July p nuclear power, AEC, atomic weapons, science funding, uni research, military secrecy 1949 cost assessment, capital cost, energy economics, competitive	Nov p 25–35 967 Oct p 48 968 July p 48 75 Aug p 46 e-scattering succleus p 55–68 [217] versity July p 30–43 ve with fossil	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plui breeder reactor, US energy policy and prolif weapons 19 A E C, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36- tonium fuel cycle feration of atomic 78 Apr p 45-57 [3004 1948 Sept p 21 1948 Nov p 2- 1950 Aug p 21 1953 June p 44-
US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particl experiments, electron scattering, models of the atomic rapsolute physics, atomic weapons, science funding, universearch, military secrecy cost assessment, capital cost, energy economics, competiting fuels	Nov p 25–35 967 Oct p 48 968 July p 48 75 Aug p 46 e-scattering succleus p 55–68 [217] versity July p 30–43 we with fossil Jun p 32–38	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plui breeder reactor, US energy policy and prolif weapons 19 AEC, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act full-scale unit	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36- tonium fuel cycle eration of atomic 78 Apr p 45-57 [3004 1948 Sept p 21 1948 Nov p 2- 1950 Aug p 21 1953 June p 44 1953 Dec p 48 1955 Apr p 46
US-USSR draft UN Assembly approval vertical prohiferation nuclear physics, atomic nucleus, high-energy physics, particl experiments, electron scattering, models of the atomic r 1956 July in nuclear power, AEC, atomic weapons, science funding uni research, military secrecy 1949 cost assessment, capital cost, energy economics, competitiv fuels fission reactor, heavy-water reactor, homogeneous reactor,	Nov p 25–35 967 Oct p 48 968 July p 48 75 Aug p 46 e-scattering uicleus p 55–68 [217] versity July p 30–43 ver with fossil Jun p 32–38 enriched	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plui breeder reactor, U S energy policy and prolif weapons 19 A E C, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act full-scale unit Con Ed in market	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36- fonium fuel cycle eration of atomic 78 Apr p 45-57 [3004 1948 Sept p 21 1948 Nov p 2- 1950 Aug p 21 1953 June p 44 1953 Dec p 48 1955 Apr p 46
US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particl experiments, electron scattering, models of the atomic r 1956 July p nuclear power, AEC, atomic weapons, science funding, uni research, military secrecy 1949 cost assessment, capital cost, energy economics, competitiv fuels fission reactor, heavy-water reactor, homogeneous reactor, uranium, AEC program 1951 A	Nov p 25–35 967 Oct p 48 968 July p 48 75 Aug p 46 e-scattering sucleus p 55–68 [217] versity July p 30–43 ve with fossil Jun p 32–38 enriched Apr p 43–50	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plui breeder reactor, US energy policy and prolif weapons 19 AEC, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act full-scale unit	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36- tonium fuel cycle eration of atomic 78 Apr p 45-57 [3004 1948 Sept p 21 1948 Nov p 2- 1950 Aug p 21 1953 June p 44 1953 Dec p 48 1955 July p 48 1955 July p 48
US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particl experiments, electron scattering, models of the atomic r 1956 July p nuclear power, AEC, atomic weapons, science funding, uni research, military secrecy 1949 cost assessment, capital cost, energy economics, competitiv fuels fission reactor, heavy-water reactor, homogeneous reactor, uranium, AEC program 1951 nuclear fuel cycle, plutonium separation, fission products, reactor	Nov p 25–35 967 Oct p 48 968 July p 48 75 Aug p 46 e-scattering nucleus p 55–68 [217] versity July p 30–43 ve with fossil Jan p 32–38 enriched Apr p 43–50 fission fully p 62–67	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plut breeder reactor, US energy policy and prolif weapons 19 A E C, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act full-scale unit Con Ed in market 650mW plans	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36- tonium fuel cycle feration of atomic 78 Apr p 45-57 [3004 1948 Sept p 21 1948 Nov p 2- 1950 Aug p 21 1953 June p 44 1953 Dec p 48 1955 Apr p 46 1955 July p 48 1956 Mar p 48
US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particle experiments, electron scattering, models of the atomic research, military secrecy 1956 July proceedings, universearch, military secrecy 1949 cost assessment, capital cost, energy economics, competitive fuels fission reactor, heavy-water reactor, homogeneous reactor, uranium, A E C program 1951 Anuclear fuel cycle, plutonium separation, fission products, reactor fission reactor, breeder reactor, boiling-water reactor, homogeneous, homogeneous reactor,	Nov p 25–35 967 Oct p 48 968 July p 48 75 Aug p 46 e-scattering nucleus p 55–68 [217] versity July p 30–43 ve with fossil Jan p 32–38 enriched Apr p 43–50 fission fully p 62–67	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plui breeder reactor, U S energy policy and prolif weapons 19 A E C, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act full-scale unit Con Ed in market 650mW plans state of the art uranium on market Calder Hall on stream	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36- tonium fuel cycle feration of atomic 78 Apr p 45-57 [3004 1948 Sept p 21 1948 Nov p 2- 1950 Aug p 21 1953 June p 44 1953 Dec p 48 1955 Apr p 46 1955 Mar p 48 1956 Mar p 48 1956 Apr p 61 1956 July p 48
US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particle experiments, electron scattering, models of the atomic research, military secrecy 1956 July processor assessment, capital cost, energy economics, competitive fuels fission reactor, heavy-water reactor, homogeneous reactor, uranium, A E C program 1951 Annuclear fuel cycle, plutonium separation, fission products, reactor fission reactor, breeder reactor, boiling-water reactor, homogeneous reactor, sodium-cooled reactor, fast neutron reactor	Nov p 25–35 267 Oct p 48 268 July p 48 275 Aug p 46 28-scattering uicleus 29 55–68 [217] versity July p 30–43 29 with fossil Jan p 32–38 20 enriched Apr p 43–50 6 fission 1 uly p 62–67 20 ogeneous	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plui breeder reactor, U S energy policy and prolif weapons 19 A E C, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act full-scale unit Con Ed in market 650mW plans state of the art uranium on market Calder Hall on stream education in nuclear technology	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36- tonium fuel cycle teration of atomic 78 Apr p 45-57 [3004 1948 Sept p 21 1948 Nov p 2- 1950 Aug p 21 1953 June p 44 1953 Dec p 48 1955 Apr p 46 1955 Apr p 46 1956 Mar p 48 1956 Mar p 48 1956 Sept p 110 1956 Oct p 68
US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particl experiments, electron scattering, models of the atomic nuclear power, A E C, atomic weapons, science funding, uni research, military secrecy 1949 cost assessment, capital cost, energy economics, competitiv fuels fission reactor, heavy-water reactor, homogeneous reactor, uranium, A E C program 1951 A nuclear fuel cycle, plutonium separation, fission products, reactor fission reactor, breeder reactor, boiling-water reactor, nreactor, sodium-cooled reactor, fast neutron reactor	Nov p 25–35 267 Oct p 48 268 July p 48 75 Aug p 46 25-368 [217] 26 yersity 26 yersity 27 yersity 28 ye with fossil 28 ye with fossil 28 yersithed 29 p 43–50 29 fission 20 ye 62–67 20 yersity 20 ye 62–67 20 yersity 20 yersity 20 yersity 21 yersity 22 yersity 23 yersity 24 yersity 25 yersity 26 yersity 26 yersity 26 yersity 27 yersity 28 yersity 29 yersity 29 yersity 20 yersity 21 yersity 22 yersity 23 yersity 24 yersity 25 yersity 26 yersity 27 yersity 27 yersity 28 yersity 28 yersity 29 yersity 29 yersity 29 yersity 20 yer	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plui breeder reactor, U S energy policy and prolif weapons 19 A E C, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act full-scale unit Con Ed in market 650mW plans state of the art uranium on market Calder Hall on stream education in nuclear technology fusion reactor, thermonuclear power potential	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36-1 tonium fuel cycle eration of atomic 78 Apr p 45-57 [3004 1948 Sept p 21 1948 Nov p 2- 1950 Aug p 21 1953 June p 44 1953 Dec p 48 1955 Apr p 46 1955 Apr p 46 1956 Apr p 61 1956 Apr p 61 1956 Sept p 110 1956 Oct p 68 1957 May p 62
US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particl experiments, electron scattering, models of the atomic research, military secrecy 1956 July process assessment, capital cost, energy economics, competitivels fusion reactor, heavy-water reactor, homogeneous reactor, uranium, A E C program 1951 Annuclear fuel cycle, plutonium separation, fission products, reactor fission reactor, breeder reactor, boiling-water reactor, homogeneous, sodium-cooled reactor, fast neutron reactor 1954 Enternational cooperation, 'atomic pool' proposal	Nov p 25–35 267 Oct p 48 268 July p 48 75 Aug p 46 25-35 26-	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plui breeder reactor, U S energy policy and prolif weapons 19 A E C, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act full-scale unit Con Ed in market 650mW plans state of the art uranium on market Calder Hall on stream education in nuclear technology	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36-1 tonium fuel cycle teration of atomic 78 Apr p 45-57 [3004 1948 Sept p 21 1948 Nov p 2- 1950 Aug p 21 1953 June p 44 1953 Dec p 48 1955 Apr p 46 1955 July p 48 1956 Apr p 61 1956 July p 48 1956 Sept p 110 1956 Oct p 68 1957 May p 62 1957 Aug p 58
US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particl experiments, electron scattering, models of the atomic research, military secrecy 1956 July proceedings, universearch, military secrecy 1949 cost assessment, capital cost, energy economics, competitive fuels 1951 fission reactor, heavy-water reactor, homogeneous reactor, uranium, AEC program 1951 nuclear fuel cycle, plutonium separation, fission products, reactor 1952 fission reactor, breeder reactor, boiling-water reactor, homogeneous reactor, sodium-cooled reactor, fast neutron reactor 1954 International cooperation, 'atomic pool' proposal 1955 A'atoms for peace', thermonuclear reaction, fission reactor, freeder CERN, first of a four-part report on the International Coeperation of the International CERN, first of a four-part report on the International CERN, first of a four-part report on the International CERN, first of a four-part report on the International Coeperation, 'international CERN, first of a four-part report on the International CERN, first of a four-part report on the International CERN, first of a four-part report on the International CERN, first of a four-part report on the International CERN, first of a four-part report on the International CERN, first of a four-part report on the International CERN, first of a four-part report on the International CERN, first of a four-part report on the International CERN, first of a four-part report on the International CERN, first of a four-part report on the International CERN, first of a four-part report on the International CERN, first of a four-part report on the International CERN, first of a four-part report on the International CERN, first of a four-part report on the International CERN, first of a four-part report on the International CERN, first of a four-part report on the International CERN, first of a four-part report on the International CERN, first of a four-part report on the International CERN, first of a four-part report	Nov p 25–35 267 Oct p 48 268 July p 48 275 Aug p 46 25-scattering 25-68 [217] 26 versity 26 July p 30–43 27 with fossil 26 July p 30–43 28 enriched 26 July p 43–50 26 July p 62–67 27 July p 62–67 28 July p 62–67 29 July p 62–67 29 July p 62–67 20 July p 62–67 20 July p 62–67 20 July p 62–67 20 July p 63–39 20 July p 63–35 20 July p 63–67 20 July p	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plut breeder reactor, US energy policy and prolif weapons 19 A E C, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act full-scale unit Con Ed in market 650mW plans state of the art uranium on market Calder Hall on stream education in nuclear technology fusion reactor, thermonuclear power potential costs rising UN survey Shippingport reactor 'goes critical'	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36- tonium fuel cycle feration of atomic 78 Apr p 45-57 [3004 1948 Nov p 2- 1950 Aug p 21 1953 June p 44 1953 Dec p 45 1955 Apr p 46 1955 July p 48 1956 Mar p 48 1956 Apr p 61 1956 Oct p 68 1957 Aug p 58 1957 Aug p 58 1958 Feb p 46
US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particl experiments, electron scattering, models of the atomic r 1956 July p nuclear power, A E C, atomic weapons, science funding, uni research, military secrecy 1949 cost assessment, capital cost, energy economics, competitiv fuels fission reactor, heavy-water reactor, homogeneous reactor, uranium, A E C program 1951 nuclear fuel cycle, plutonium separation, fission products, reactor fission reactor, breeder reactor, boiling-water reactor, hom reactor, sodium-cooled reactor, fast neutron reactor international cooperation, 'atomic pool' proposal 'atoms for peace', thermonuclear reaction, fission reactor, f reactor, C E R N, first of a four-part report on the Intern Conference on the Peaceful Uses of Atomic Energy, Gen	Nov p 25–35 267 Oct p 48 268 July p 48 275 Aug p 46 25-scattering 25 55–68 [217] 26 with fossil 26 July p 30–43 27 with fossil 28 July p 30–43 28 July p 30–43 29 July p 30–43 29 July p 30–43 20 July p 62–67 20 July p 31–35 20 July p 31–35 20 July p 31–35 20 July p 43–50 20 July p 62–67	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plui breeder reactor, U S energy policy and prolif weapons 19 A E C, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act full-scale unit Con Ed in market 650mW plans state of the art uranium on market Calder Hall on stream education in nuclear technology fusion reactor, thermonuclear power potential costs rising U N survey Shippingport reactor 'goes critical' radioactive waste disposal	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36- tonium fuel cycle feration of atomic 78 Apr p 45-57 [3004 1948 Nov p 2- 1958 Nov p 2- 1950 Aug p 21 1953 June p 44 1953 Dec p 48 1955 Apr p 46 1955 July p 48 1956 Mar p 48 1956 Apr p 61 1956 Oct p 68 1957 Aug p 58 1957 Aug p 58 1958 Feb p 46 1958 Mar p 58
US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particle experiments, electron scattering, models of the atomic research, military secrecy 1956 July proceedings of the atomic research, military secrecy 1949 cost assessment, capital cost, energy economics, competitive fuels fission reactor, heavy-water reactor, homogeneous reactor, uranium, A E C program 1951 Annuclear fuel cycle, plutonium separation, fission products, reactor fission reactor, breeder reactor, boiling-water reactor, homogeneous reactor, sodium-cooled reactor, fast neutron reactor international cooperation, 'atomic pool' proposal 'atoms for peace', thermonuclear reaction, fission reactor, for reactor, C E R N, first of a four-part report on the International conference on the Peaceful Uses of Atomic Energy, Gen	Nov p 25–35 267 Oct p 48 268 July p 48 275 Aug p 46 26-scattering uicleus 25 55–68 [217] versity July p 30–43 26 with fossil Jan p 32–38 enriched Apr p 43–50 fission uly p 62–67 26 26 27 27 27 31–35 usion lational eva, August ct p 27–33	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plut breeder reactor, US energy policy and prolif weapons 19 A E C, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act full-scale unit Con Ed in market 650mW plans state of the art uranium on market Calder Hall on stream education in nuclear technology fusion reactor, thermonuclear power potential costs rising UN survey Shippingport reactor 'goes critical'	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36-1 fonum fuel cycle eration of atomic 78 Apr p 45-57 [3004 1948 Sept p 21 1948 Nov p 2- 1950 Aug p 21 1953 June p 44 1953 Dec p 48 1955 Apr p 46 1955 July p 48 1956 Mar p 48 1956 Apr p 61 1956 July p 48 1956 Sept p 110 1956 Oct p 68 1957 May p 62 1957 Aug p 58 1958 Feb p 46 1958 Mar p 58 1958 Feb p 46 1958 Mar p 58 1958 Aug p 50
US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particl experiments, electron scattering, models of the atomic r 1956 July p nuclear power, A E C, atomic weapons, science funding, uni research, military secrecy 1949 cost assessment, capital cost, energy economics, competitiv fuels fission reactor, heavy-water reactor, homogeneous reactor, uranium, A E C program 1951 nuclear fuel cycle, plutonium separation, fission products, reactor fission reactor, breeder reactor, boiling-water reactor, hom reactor, sodium-cooled reactor, fast neutron reactor international cooperation, 'atomic pool' proposal 1955 A 'atoms for peace', thermonuclear reaction, fission reactor, f reactor, C E R N, first of a four-part report on the Intern Conference on the Peaceful Uses of Atomic Energy, Gen 1945 'atoms for peace', nuclear fuel, fuel element fabrication, ura	Nov p 25–35 267 Oct p 48 268 July p 48 275 Aug p 46 26-scattering sucleus 255–68 [217] versity July p 30–43 ve with fossil Jan p 32–38 enriched Apr p 43–50 fission suly p 62–67 ogeneous dec p 33–39 pr p 31–35 usion lational eva, August ct p 27–33 nium ore	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plui breeder reactor, U S energy policy and prolif weapons 19 A E C, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act full-scale unit Con Ed in market 650mW plans state of the art uranium on market Calder Hall on stream education in nuclear technology fusion reactor, thermonuclear power potential costs rising U N survey Shippingport reactor 'goes critical' radioactive waste disposal peaceful use of atom, International Atomic Energy	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36- tonium fuel cycle eration of atomic 78 Apr p 45-57 [3004 1948 Sept p 21 1948 Nov p 2- 1950 Aug p 21 1953 June p 44 1953 Dec p 46 1955 Apr p 46 1955 Apr p 46 1955 Apr p 46 1956 Apr p 61 1956 July p 48 1956 Sept p 110 1956 Oct p 68 1957 Aug p 58 1958 Feb p 46 1958 Mar p 58 1958 Rar p 58 1958 Rar p 58 1958 Rar p 58 1958 Aug p 50 1958 Oct p 53
US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particl experiments, electron scattering, models of the atomic r 1956 July p nuclear power, AEC, atomic weapons, science funding, uni research, military secrecy 1949 cost assessment, capital cost, energy economics, competitiv fuels fission reactor, heavy-water reactor, homogeneous reactor, uranium, AEC program 1951 A nuclear fuel cycle, plutonium separation, fission products, reactor fission reactor, breeder reactor, boiling-water reactor, hom reactor, sodium-cooled reactor, fast neutron reactor international cooperation, 'atomic pool' proposal 'atoms for peace', thermonuclear reaction, fission reactor, freactor, CERN, first of a four-part report on the Intern Conference on the Peaceful Uses of Atomic Energy, Gen 1945 'atoms for peace', nuclear fuel, fuel element fabrication, ura	Nov p 25–35 267 Oct p 48 268 July p 48 275 Aug p 46 25-scattering 25 55–68 [217] 26 versity 26 July p 30–43 27 with fossil 27 July p 30–43 28 enriched 29 pp 43–50 29 fission 20 pp 31–35 29 pp 31–35 29 pp 31–35 29 pp 31–35 20 pp 31–35	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plut breeder reactor, US energy policy and prolif weapons 19 A E C, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act full-scale unit Con Ed in market 650mW plans state of the art uranium on market Calder Hall on stream education in nuclear technology fusion reactor, thermonuclear power potential costs rising UN survey Shippingport reactor 'goes critical' radioactive waste disposal peaceful use of atom, International Atomic Energy fusion reactor, astron technology cheerful predictions from A E C	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36- tonium fuel cycle feration of atomic 78 Apr p 45-57 [3004 1948 Nov p 2- 1958 Apr p 45- 1955 Aug p 21 1953 June p 45 1955 Apr p 46 1955 July p 48 1956 Mar p 48 1956 Apr p 61 1956 Oct p 68 1957 Aug p 58 1958 Feb p 46 1958 Mar p 58 1958 Mar p 58 1958 Oct p 53
US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particl experiments, electron scattering, models of the atomic research, military secrecy nuclear power, A E C, atomic weapons, science funding, uni research, military secrecy 1949 cost assessment, capital cost, energy economics, competitiv fuels fission reactor, heavy-water reactor, homogeneous reactor, uranium, A E C program 1951 nuclear fuel cycle, plutonium separation, fission products, reactor fission reactor, breeder reactor, boiling-water reactor, hom reactor, sodium-cooled reactor, fast neutron reactor international cooperation, 'atomic pool' proposal 1955 A' atoms for peace', thermonuclear reaction, fission reactor, for reactor, C E R N, first of a four-part report on the Intern Conference on the Peaceful Uses of Atomic Energy, Gen 1945 'atoms for peace', nuclear fuel, fuel element fabrication, ura Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva reatoms for peace', fission reactor, breeder reactor, Geneva r	Nov p 25–35 267 Oct p 48 268 July p 48 275 Aug p 46 25-scattering 25 55–68 [217] 26 versity 26 July p 30–43 27 with fossil 26 July p 30–43 28 enriched 29 Apr p 43–50 20 fission 21 fission 22 fission 23 fission 24 fission 25 fission 26 fission 27 fission 28 fission 28 fission 29 fission 29 fission 20 fission 20 fission 20 fission 20 fission 21 fission 22 fission 23 fission 24 fission 25 fission 26 fission 27 fission 28 fission 28 fission 29 fission 20 fission	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plut breeder reactor, U S energy policy and prolif weapons 19 A E C, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act full-scale unit Con Ed in market 650mW plans state of the art uranium on market Calder Hall on stream education in nuclear technology fusion reactor, thermonuclear power potential costs rising UN survey Shippingport reactor 'goes critical' radioactive waste disposal peaceful use of atom, International Atomic Energy fusion reactor, astron technology cheerful predictions from A E C in naval vessels	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36-1 tonium fuel cycle feration of atomic 78 Apr p 45-57 [3004 1948 Sept p 21 1948 Nov p 2- 1950 Aug p 21 1953 June p 44 1953 Dec p 45 1955 Apr p 46 1955 July p 48 1956 Mar p 48 1956 Apr p 61 1956 Oct p 67 1957 May p 58 1958 Feb p 46 1958 Mar p 58 1958 Aug p 50 1958 Aug p 53 1959 Mar p 60 1959 Oct p 81
US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particl experiments, electron scattering, models of the atomic r 1956 July p nuclear power, A E C, atomic weapons, science funding, uni research, military secrecy 1949 cost assessment, capital cost, energy economics, competitiv fuels fission reactor, heavy-water reactor, homogeneous reactor, uranium, A E C program 1951 A nuclear fuel cycle, plutonium separation, fission products, reactor fission reactor, breeder reactor, boiling-water reactor, hom reactor, sodium-cooled reactor, fast neutron reactor international cooperation, 'atomic pool' proposal 'atoms for peace', thermonuclear reaction, fission reactor, f reactor, C E R N, first of a four-part report on the Intern Conference on the Peaceful Uses of Atomic Energy, Gen 1945 'atoms for peace', nuclear fuel, fuel element fabrication, ura Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva finera reactor, magnetohydrodynamics, plasma containmen	Nov p 25–35 267 Oct p 48 268 July p 48 275 Aug p 46 25-scattering 25 55–68 [217] 26 with fossil 26 July p 30–43 26 with fossil 26 July p 30–43 27 with fossil 28 enriched 29 pr p 43–50 29 pr p 31–35 20 pr p 31–35	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plui breeder reactor, U S energy policy and prolif weapons 19 A E C, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act full-scale unit Con Ed in market 650mW plans state of the art uranium on market Calder Hall on stream education in nuclear technology fusion reactor, thermonuclear power potential costs rising U N survey Shippingport reactor 'goes critical' radioactive waste disposal peaceful use of atom, International Atomic Energy fusion reactor, astron technology cheerful predictions from A E C in naval vessels fusion reactor, fusion reactor technology	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36-1 tonium fuel cycle teration of atomic 78 Apr p 45-57 [3004 1948 Sept p 21 1948 Nov p 2- 1950 Aug p 21 1953 June p 44 1953 Dec p 44 1953 Dec p 44 1955 Apr p 46 1955 July p 48 1956 Mar p 48 1956 Mar p 48 1956 Sept p 110 1956 Oct p 68 1957 Aug p 58 1958 Feb p 46 1958 Mar p 58 1958 Feb p 46 1958 Aug p 58 1958 Oct p 53 1959 Mar p 60 1959 Oct p 81 1960 Nov p 100 1967 Jun p 54
US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particle experiments, electron scattering, models of the atomic research, military secrecy 1956 July processor assessment, capital cost, energy economics, competitive fuels fission reactor, heavy-water reactor, homogeneous reactor, uranium, A E C program 1951 nuclear fuel cycle, plutonium separation, fission products, reactor fission reactor, breeder reactor, boiling-water reactor, homogeneous reactor, sodium-cooled reactor, fast neutron reactor international cooperation, 'atomic pool' proposal 'atoms for peace', thermonuclear reaction, fission reactor, for reactor, C E R N, first of a four-part report on the International cooperation of the Peaceful Uses of Atomic Energy, Gen 1945 'atoms for peace', nuclear fuel, fuel element fabrication, ura Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva fusion reactor, magnetohydrodynamics, plasma containmen	Nov p 25–35 267 Oct p 48 268 July p 48 275 Aug p 46 26-scattering 26 July p 30 275 Aug p 46 28 July p 30 28 July p 30 29 July p 30–43 29 With fossil 29 July p 30–43 29 With fossil 20 July p 30–43 29 With fossil 20 July p 30–67 20 July p 62–67 20 July p 6	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plui breeder reactor, U S energy policy and prolif weapons 19 A E C, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act full-scale unit Con Ed in market 650mW plans state of the art uranium on market Calder Hall on stream education in nuclear technology fusion reactor, thermonuclear power potential costs rising U N survey Shippingport reactor 'goes critical' radioactive waste disposal peaceful use of atom, International Atomic Energy fusion reactor, astron technology cheerful predictions from A E C in naval vessels usion reactor, fusion reactor technology U S utilities' orders increase	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36-1 fonum fuel cycle teration of atomic 78 Apr p 45-57 [3004 1948 Sept p 21 1948 Nov p 2- 1950 Aug p 21 1953 June p 44 1953 Dec p 48 1955 Apr p 46 1955 July p 48 1956 Mar p 48 1956 Mar p 48 1956 Sept p 110 1956 Oct p 68 1957 May p 62 1957 Aug p 58 1958 Feb p 46 1958 Mar p 58 1958 Feb p 46 1958 Aug p 50 1958 Oct p 83 1959 Mar p 60 1958 Oct p 81 1960 Nov p 100 1967 Jan p 54 1967 Jan p 54 1967 Jan p 54
US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particl experiments, electron scattering, models of the atomic research, military secrecy research, military secrecy 1949 cost assessment, capital cost, energy economics, competitivels fission reactor, heavy-water reactor, homogeneous reactor, uranium, A E C program 1951 nuclear fuel cycle, plutonium separation, fission products, reactor fission reactor, breeder reactor, boiling-water reactor, hom reactor, sodium-cooled reactor, fast neutron reactor international cooperation, 'atomic pool' proposal 'atoms for peace', thermonuclear reaction, fission reactor, for reactor, C E R N, first of a four-part report on the Intern Conference on the Peaceful Uses of Atomic Energy, Gen 1945 'atoms for peace', nuclear fuel, fuel element fabrication, ura Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva 'atoms for peace', fission reactor, breeder reactor, Geneva fusion reactor, magnetohydrodynamics, plasma containmen effect, thermonuclear reaction, thermonuclear energy for	Nov p 25–35 267 Oct p 48 268 July p 48 275 Aug p 46 26-scattering sucleus 25 55–68 [217] 26 versity 30 July p 30–43 26 versith fossil 31 July p 30–43 27 versithed 32 pr p 43–50 33 fission 34 pr p 43–50 36 pr p 43–50 37 pr p 31–35 38 pr p 31–35 39 pr p 31–35 30 pr p 31	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plui breeder reactor, U S energy policy and prolif weapons 19 A E C, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act full-scale unit Con Ed in market 650mW plans state of the art uranium on market Calder Hall on stream education in nuclear technology fusion reactor, thermonuclear power potential costs rising U N survey Shippingport reactor 'goes critical' radioactive waste disposal peaceful use of atom, International Atomic Energy fusion reactor, astron technology cheerful predictions from A E C in naval vessels fusion reactor, fusion reactor technology	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36-10] 1977 June p 21-31 [36-10] 1948 Nor p 2-1948 Nor p 2-1948 Nor p 2-1950 Aug p 21 1953 June p 44 1953 Dec p 48 1955 Apr p 46 1955 July p 48 1956 Mar p 48 1956 Mar p 48 1956 Sept p 110 1956 Oct p 68 1957 Aug p 38 1958 Feb p 46 1958 Mar p 58 1958 Mar p 58 1958 Mar p 58 1958 Oct p 63 1959 Mar p 60 1958 Oct p 81 1960 Nor p 100 1967 Jun p 54 1969 July p 52 1971 June p 54
US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particl experiments, electron scattering, models of the atomic research, military secrecy 1956 July process assessment, capital cost, energy economics, competitive fuels fission reactor, heavy-water reactor, homogeneous reactor, uranium, A E C program 1951 Annuclear fuel cycle, plutonium separation, fission products, reactor fission reactor, breeder reactor, boiling-water reactor, homogeneous reactor, reactor, sodium-cooled reactor, fast neutron reactor international cooperation, 'atomic pool' proposal 1955 A'atoms for peace', thermonuclear reaction, fission reactor, for reactor, C E R N, first of a four-part report on the Internations for peace', nuclear fuel, fuel element fabrication, urangeneous chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission	Nov p 25–35 267 Oct p 48 268 July p 48 275 Aug p 46 25-scattering 25 55–68 [217] 26 versity 26 July p 30–43 27 with fossil 27 July p 30–43 28 veriched 29 pp 43–50 29 fission 20 pec p 33–39 29 pp 31–35 29 pp 31–35 29 pp 31–35 20 pp 31–	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plut breeder reactor, U S energy policy and prolif weapons 19 A E C, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act full-scale unit Con Ed in market 650mW plans state of the art uranium on market Calder Hall on stream education in nuclear technology fusion reactor, thermonuclear power potential costs rising U N survey Shippingport reactor 'goes critical' radioactive waste disposal peaceful use of atom, International Atomic Energy fusion reactor, astron technology cheerful predictions from A E C in naval vessels fusion reactor, fusion reactor technology J S utilities' orders increase pumped-storage plant ituation in U S lants in U S	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36-10] 1977 June p 21-31 [36-10] 1948 Sept p 21 1948 Nov p 2-1950 Aug p 21 1953 June p 41 1953 June p 42 1955 Apr p 44 1955 Apr p 44 1955 Mar p 48 1956 Apr p 61 1956 Oct p 67 1957 Aug p 58 1958 Feb p 46 1958 Mar p 58 1958 Aug p 50 1958 Oct p 81 1960 Nov p 100 1967 July p 52 1971 June p 54 1971 June p 54 1971 June p 54
US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particl experiments, electron scattering, models of the atomic research, military secrecy 1956 July process assessment, capital cost, energy economics, competitive fuels fission reactor, heavy-water reactor, homogeneous reactor, uranium, A E C program 1951 Anniclear fuel cycle, plutonium separation, fission products, reactor fission reactor, breeder reactor, boiling-water reactor, homogeneous reactor, reactor, sodium-cooled reactor, fast neutron reactor international cooperation, 'atomic pool' proposal 1955 A' atoms for peace', thermonuclear reaction, fission reactor, for reactor, C E R N, first of a four-part report on the Internations for peace', nuclear fuel, fuel element fabrication, urangeneous chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva for peace', fission reactor, breeder reactor, breeder reactor, Geneva for peace', fission reactor, breeder reactor, geneva for power fission reactor, magnetohydrodynamics, plasma containment effect, thermonuclear reaction, thermonuclear energy for power fission reactor, breeder reactor, energy economics atomic pofficial process for magnetic bottle, plasma confinement, deuternice power fission reactor, magnetic bottle, plasma confinement, deuterniced for the process of the power for magnetic bottle, plasma confinement, deuterniced for the process of	Nov p 25–35 267 Oct p 48 268 July p 48 275 Aug p 46 25-scattering 25 55–68 [217] 26 versity 26 July p 30–43 27 with fossil 26 July p 43–50 26 July p 43–50 26 July p 62–67 26 July p 62–67 27 July p 31–35 28 July p 62–67 28 July p 62–67 29 July p 62–67 29 July p 62–67 20	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plui breeder reactor, U S energy policy and prolif weapons 19 A E C, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act full-scale unit Con Ed in market 650mW plans state of the art uranium on market Calder Hall on stream education in nuclear technology fusion reactor, thermonuclear power potential costs rising U N survey Shippingport reactor 'goes critical' radioactive waste disposal peaceful use of atom, International Atomic Energy fusion reactor, astron technology cheerful predictions from A E C in naval vessels fusion reactor, fusion reactor technology U S utilities' orders increase pumped-storage plant ituation in U S clants in U S atural reactor, CANDU reactor	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36-1 tonium fuel cycle feration of atomic 78 Apr p 45-57 [3004 1948 Nov p 2- 1950 Aug p 21 1953 June p 41 1953 Dec p 42 1953 June p 44 1955 Apr p 44 1955 Apr p 44 1955 Apr p 48 1956 Apr p 61 1956 Apr p 61 1956 Oct p 63 1957 May p 62 1957 Aug p 58 1958 Aug p 50 1958 Aug p 50 1958 Aug p 50 1958 Oct p 81 1960 Nov p 100 1967 Jan p 54 1969 July p 54 1972 Oct p 47 1975 July p 45
US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particl experiments, electron scattering, models of the atomic research, military secrecy research, military secrecy 1949 cost assessment, capital cost, energy economics, competitivels fission reactor, heavy-water reactor, homogeneous reactor, uranium, A E C program 1951 A nuclear fuel cycle, plutonium separation, fission products, reactor fission reactor, breeder reactor, boiling-water reactor, homogeneous, reactor fission reactor, breeder reactor, boiling-water reactor, homogeneous reactor, action reactor, sodium-cooled reactor, fast neutron reactor international cooperation, 'atomic pool' proposal 'atoms for peace', thermonuclear reaction, fission reactor, for reactor, C E R N, first of a four-part report on the Internations for peace', nuclear fuel, fuel element fabrication, urangeneous chemistry 'atoms for peace', nuclear fuel, fuel element fabrication, urangeneous chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, geneva chemistry 'atoms for peace', fission reactor, breeder reactor, geneva chemistry 'atoms for peace', fission reactor, breeder reactor, geneva chemistry 'atoms for peace', fission reactor, breeder reactor, geneva chemistry 'atoms for peace', fission reactor, breeder reactor, geneva chemistry 'atoms for peace', fission reactor, breeder reactor, geneva chemistry 'atoms for peace', fission reactor, breeder reactor, geneva chemistry 'atoms for peace', fission reactor, breeder reactor, geneva chemistry 'atoms for peace', fission reactor, breeder reactor, geneva chemistry 'atoms for peace', fission reactor, breeder reactor, general chemistry 'atoms for peace', fission reactor, general chemistry 'atoms	Nov p 25–35 267 Oct p 48 268 July p 48 275 Aug p 46 26-scattering uicleus 25 55–68 [217] versity July p 30–43 26 with fossil Jan p 32–38 enriched Apr p 43–50 fission uly p 62–67 26 27 28 27 28 28 27 33 28 28 29 27 33 29 27 33 29 27 33 29 27 34–37 29 27 33 20 27 34–37 20 27 36 20 27 36 20 27 36 20 27 36 20 27 36 20 27 36 20 27 36 20 27 36 20 27 36 20 27 36 20 27 36 20 27 36 20 27 36 20 27 36 20 27 36 20 27 36 20 27 36 20 27 36 20 27 37 20 27	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plui breeder reactor, U S energy policy and prolif weapons 19 A E C, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act full-scale unit Con Ed in market 650mW plans state of the art uranium on market Calder Hall on stream education in nuclear technology fusion reactor, thermonuclear power potential costs rising U N survey Shippingport reactor 'goes critical' radioactive waste disposal peaceful use of atom, International Atomic Energy fusion reactor, astron technology cheerful predictions from A E C in naval vessels usion reactor, fusion reactor technology J S utilities' orders increase pumped-storage plant tituation in U S alants in U S alatis are referendum	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36-1 fonium fuel cycle eration of atomic 78 Apr p 45-57 [3004 1948 Sept p 21 1948 Nov p 2- 1950 Aug p 21 1953 June p 44 1953 Dec p 44 1953 Dec p 44 1955 Apr p 46 1955 July p 48 1956 Mar p 48 1956 Mar p 48 1956 Sept p 110 1956 Oct p 68 1957 Aug p 58 1958 Feb p 46 1958 Mar p 58 1958 Feb p 46 1958 Mar p 58 1958 Oct p 53 1959 Mar p 60 1958 Oct p 81 1960 Nov p 160 1967 July p 52 1971 June p 54 1975 July p 45 1976 Feb p 54 1976 Feb p 54 1976 Feb p 54
US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particl experiments, electron scattering, models of the atomic research, military secrecy research, military secrecy 1949 cost assessment, capital cost, energy economics, competitivels fission reactor, heavy-water reactor, homogeneous reactor, uranium, A E C program 1951 A nuclear fuel cycle, plutonium separation, fission products, reactor fission reactor, breeder reactor, boiling-water reactor, hom reactor, sodium-cooled reactor, fast neutron reactor international cooperation, 'atomic pool' proposal 'atoms for peace', thermonuclear reaction, fission reactor, for reactor, C E R N, first of a four-part report on the Intern Conference on the Peaceful Uses of Atomic Energy, Gen 1945 'atoms for peace', nuclear fuel, fuel element fabrication, ura Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva referct, thermonuclear reaction, thermonuclear energy for fusion reactor, magnetohydrody namics, plasma containmen effect, thermonuclear reaction, thermonuclear energy for power 1955 O fusion reactor, breeder reactor, energy economics atomic pe fission reactor, breeder reactor, energy economics atomic pe fission reactor, breeder reactor, energy economics atomic pe fission reactor, magnetic bottle, plasma confinement, deuter tritium magnetic pumping stellerator 1958 Oc	Nov p 25–35 267 Oct p 48 268 July p 48 275 Aug p 46 28-scattering sucleus 25 55–68 [217] versity July p 30–43 ve with fossil Jan p 32–38 enriched Apr p 43–50 fission fully p 62–67 ogeneous 26c p 33–39 pr p 31–35 asion factional eva, August ct p 27–33 nium ore ct p 34–37 eactors ct p 56–68 t, pinch domestic 73–84 [236] pincer in r p 29–35 pum. n t p 28–35 fuel s p 37–43	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plut breeder reactor, U S energy policy and prolif weapons 19 A E C, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act full-scale unit Con Ed in market 650mW plans state of the art uranium on market Calder Hall on stream education in nuclear technology fusion reactor, thermonuclear power potential costs rising U N survey Shippingport reactor 'goes critical' radioactive waste disposal peaceful use of atom, International Atomic Energy fusion reactor, astron technology cheerful predictions from A E C in naval vessels usion reactor, fusion reactor technology U S utilities' orders increase pumped-storage plant ituation in U S alants in U S atural reactor, CANDU reactor California referendum lowdown in U S infety assessed	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36-10] 1971 June p 21-31 [36-10] 1948 Nor p 2-1948 Nor p 2-1948 Nor p 2-1950 Aug p 21 1948 Nor p 2-1950 Aug p 21 1953 June p 44 1953 Dec p 48 1955 Apr p 46 1955 July p 48 1956 Mar p 48 1956 Mar p 48 1956 Sept p 110 1956 Oct p 68 1957 Aug p 58 1958 Feb p 46 1958 Mar p 58 1958 Feb p 46 1958 Mar p 58 1958 Oct p 83 1958 Oct p 83 1959 Mar p 60 1958 Oct p 81 1960 Nor p 100 1967 Jun p 54 1976 July p 52 1971 June p 54 1975 July p 43 1976 Har p 60 1976 Feb p 53 1976 Mar p 60 1976 June p 54
US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particl experiments, electron scattering, models of the atomic research, military secrecy 1956 July process assessment, capital cost, energy economics, competitive fuels fission reactor, heavy-water reactor, homogeneous reactor, uranium, A E C program 1951 Annuclear fuel cycle, plutonium separation, fission products, reactor fission reactor, breeder reactor, boiling-water reactor, homogeneous reactor, reactor, sodium-cooled reactor, fast neutron reactor international cooperation, 'atomic pool' proposal 1955 A'atoms for peace', thermonuclear reaction, fission reactor, for reactor, C E R N, first of a four-part report on the Internations for peace', nuclear fuel, fuel element fabrication, urangeneous chemistry 'atoms for peace', inssion reactor, breeder reactor, Geneva for power fusion reactor, magnetohydrody namics, plasma containment effect, thermonuclear reaction, thermonuclear energy for power fission reactor, breeder reactor, energy economics atomic power fission reactor, magnetic bottle, plasma confinement, deutent tritium magnetic pumping stellerator 1958 October 1959 Felements	Nov p 25–35 267 Oct p 48 268 July p 48 275 Aug p 46 28-scattering sucleus 25 55–68 [217] 26 versity 27 July p 30–43 27 versity 28 versith fossil 29 July p 43–50 29 fission 20 July p 62–67 29 geneous 20 July p 62–67 20 jeneous 21 july p 62–67 20 july p 62–68 20 july p 48 20	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plut breeder reactor, U S energy policy and prolif weapons 19 A E C, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act full-scale unit Con Ed in market 650mW plans state of the art uranium on market Calder Hall on stream education in nuclear technology fusion reactor, thermonuclear power potential costs rising U N survey Shippingport reactor 'goes critical' radioactive waste disposal peaceful use of atom, International Atomic Energy fusion reactor, astron technology cheerful predictions from A E C in naval vessels fusion reactor, fusion reactor technology J S utilities' orders increase pumped-storage plant ituation in U S lants in U S atural reactor, CANDU reactor california referendum lowdo+m in U S itely assessed 12 reactors 35 882 mega+atts	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36-10] 1977 June p 21-31 [36-10] 1918 Sept p 21 1948 Nov p 2-1948 Nov p 2-1950 Aug p 21 1953 June p 44 1953 June p 44 1955 Apr p 46 1955 July p 48 1956 Mar p 48 1956 Mar p 61 1956 Oct p 67 1957 Aug p 58 1958 Feb p 46 1958 Mar p 58 1958 Sept p 100 1958 Oct p 67 1958 Mar p 58 1958 Mar p 58 1958 Nov p 100 1967 June p 54 1971 June p 54 1976 Mar p 67 1975 July p 45 1976 Mar p 67 1976 June p 54 1976 June p 54 1976 June p 54 1976 June p 67 1976 June p 67
US-USSR draft UN Assembly approval vertical prohiferation nuclear physics, atomic nucleus, high-energy physics, particl experiments, electron scattering, models of the atomic research, military secrecy nuclear power, A E C, atomic weapons, science funding, universearch, military secrecy research, military secrecy 1949 cost assessment, capital cost, energy economics, competitive fuels fission reactor, heavy-water reactor, homogeneous reactor, uranium, A E C program nuclear fuel cycle, plutonium separation, fission products, reactor fission reactor, breeder reactor, boiling-water reactor, homogeneous reactor, fission reactor, breeder reactor, fast neutron reactor international cooperation, 'atomic pool' proposal international cooperation, 'atomic pool' proposal 'atoms for peace', thermonuclear reaction, fission reactor, for reactor, C E R N, first of a four-part report on the Internations for peace', nuclear fuel, fuel element fabrication, ura Geneva chemistry 'atoms for peace', nuclear fuel, fuel element fabrication, ura Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva reffect, thermonuclear reaction, thermonuclear energy for the power fusion reactor, magnetohydrody namics, plasma containment effect, thermonuclear reaction, thermonuclear energy for the power fission reactor, breeder reactor, energy economics atomic power fusion reactor, breeder reactor, energy economics atomic power fusion reactor, breeder reactor, energy economics atomic power fission reactor, breeder reactor, fuel rods design of reactor elements fission reactor, breeder reactor, energy economics	Nov p 25–35 267 Oct p 48 268 July p 48 275 Aug p 46 26-scattering uncleus 25 55–68 [217] versity July p 30–43 ve with fossil Jan p 32–38 enriched Apr p 43–50 fission uly p 62–67 ogeneous dec p 33–39 pr p 31–35 usion lational eva, August ct p 27–33 nium ore ct p 34–37 eactors ct p 56–68 t, pinch domestic 73–84 [236] p yer in r p 29–35 pum, tt p 28–35 fuel p 37–43 sigle, p p 37–43 sigle, p p 82–94	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plui breeder reactor, U S energy policy and prolif weapons 19 A E C, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act full-scale unit Con Ed in market 650mW plans state of the art uranium on market Calder Hall on stream education in nuclear technology fusion reactor, thermonuclear power potential costs rising U N survey Shippingport reactor 'goes critical' radioactive waste disposal peaceful use of atom, International Atomic Energy fusion reactor, astron technology cheerful predictions from A E C in naval vessels usion reactor, fusion reactor technology U S utilities' orders increase pumped-storage plant tituation in U S altural reactor, CANDU reactor california referendum lowdown in U S affety assessed 21 reactors 35 882 megawatts combs into fuel rody?	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36-10] fonium fuel cycle feration of atomic 78 Apr p 45-57 [3004 1948 Sept p 21 1948 Nov p 2- 1950 Aug p 21 1953 June p 44 1953 June p 44 1953 June p 44 1955 July p 48 1956 Mar p 48 1956 Apr p 61 1956 Oct p 63 1957 May p 62 1957 Aug p 58 1958 Aug p 50 1958 Oct p 63 1958 Oct p 63 1959 Oct p 63 1959 Oct p 7 1960 Nov p 100 1967 Jan p 54 1960 Nov p 100 1967 Jan p 54 1976 July p 45
US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particl experiments, electron scattering, models of the atomic research, military secrecy research, momenture, research,	Nov p 25–35 267 Oct p 48 268 July p 48 275 Aug p 46 28-scattering sucleus 29 55–68 [217] 29 versity 30–43 20 versity 30 30 30 30 30 30 30 30 30 30 30 30 30	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plut breeder reactor, U S energy policy and prolif weapons 19 A E C, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act full-scale unit Con Ed in market 650mW plans state of the art uranium on market Calder Hall on stream education in nuclear technology fusion reactor, thermonuclear power potential costs rising U N survey Shippingport reactor 'goes critical' radioactive waste disposal peaceful use of atom, International Atomic Energy fusion reactor, astron technology cheerful predictions from A E C in naval vessels fusion reactor, fusion reactor technology J S utilities' orders increase pumped-storage plant ituation in U S lants in U S atural reactor, CANDU reactor california referendum lowdo+m in U S itely assessed 12 reactors 35 882 mega+atts	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36-10] 1977 June p 21-31 [36-10] 1918 Sept p 21 1948 Nov p 2-1948 Nov p 2-1950 Aug p 21 1953 June p 44 1953 June p 44 1955 Apr p 46 1955 July p 48 1956 Mar p 48 1956 Mar p 61 1956 Oct p 67 1957 Aug p 58 1958 Feb p 46 1958 Mar p 58 1958 Sept p 100 1958 Oct p 67 1958 Mar p 58 1958 Mar p 58 1958 Nov p 100 1967 June p 54 1971 June p 54 1976 Mar p 67 1975 July p 45 1976 Mar p 67 1976 June p 54 1976 June p 54 1976 June p 54 1976 June p 67 1976 June p 67

164

fission reactor plants producing visible per centag	ge of U S electricity	assembly, first nucleotide sequence 1966 Feb p 30-	
	1978 June p 74	DNA, E. coli, gene structure, viral DNA, bacterial virus 0×17	4. plus-
see also nuclear energy	utrone neutron	and-minus method 1977 Dec p 54-	67 [1374]
nuclear probe, atomic nucleus, spectroscopy, fast ne spectroscopy, structure of atomic nucleus	1964 Mar p 79-88	nucleus, ribosome, protein synthesis, DNA, mRNA, tRNA, chro	mosome,
atomic nucleus, nuclear fission, charge distribution		cytology, how cells make molecules 1961 Sept p 7	4-82 [92]
and size of nucleus	1969 Aug p 58-73	elementary particles, energy levels, atom, high-energy physics,	
nuclear propulsion, 10n propulsion, nuclear rocket, s		spectroscopy, 'three spectroscopies' 1968 May	
rocket propulsion by nuclear reactions	1959 May p 46-51	leukocyte, DNA, Miescher, spermatozoon nucleus, chromatin.	
in submarine Nautilus	1955 May p 50	hereditary material, discovery of DNA 1968 June p 78-	
U S warships	1970 June p 46	nucleus transplantation, cell differentiation, clone, genetic engine	ering,
nuclear radiation, effect on man	1956 Jan p 44	somatic cell nucleus, gene complement, frog embryo, gene r	egulation
irradiated polyethylene	1957 Mar p 66	1968 Dec p 24-	
maximum permissible levels	1959 Dec p 80	number concepts, cardinal numbers, child development, mathem	atics
nuclear reaction, chemical reaction, hot-atom chem	ustry, hydrogen,	education, mathematics history, ordinal numbers 1973 Mar p	101 100
chemistry at high velocity	1966 Jan p 82–90	number theory, Srinivasa Ramanujan, mathematics history, obiti	
nuclear reactor, Norway, at Kieller, Norway	1951 Dec p 30-32	G H Hardy 1948 June	
tritium, cosmic radiation, lithium, radioisotope, t	1954 Apr p 38-40	magic squares, binary arithmetic, prime number, composite nu	
and an analysis of the first on the first one the first on the first on the first on the first one th		1951 July	
energy conservation, energy resources, fission readisposal, atomic-weapon proliferation, Rasmu	iccen report	mathematics, computer, computer finds five perfect numbers	r
disposal, atomic-weapon promeration, Rasing	976 Jan p 21–31 [348]	1953 Mar	p 84-86
at Brookhaven, on stream	1950 Oct p 25	mathematics, negative numbers, irrational numbers, complex i	
10kW research reactor	1950 Dec p 29	matrix 1964 Sept	
open (declassified) face	1951 June p 30	Benford's Law, probability, digits, first-digit distribution	-
waste heat warms buildings	1952 Jan p 42	1969 Dec p	109-120
for submarines	1953 May p 53	Gauss, mathematics history, Disquisitiones Arithmeticae	
\$200 million program	1954 May p 48	1977 July p 122-	
Chalk River breakdown	1954 Oct p 47	numeric displays, integrated circuits, light-emitting diode, liquid	
patented in 1939	1954 Dec p 53	Nixie tubes 1973 June	
safety weighed	1975 Sept p 53	numerical instructions, automatic control, machine tool, batch pr	ocess,
see also fission reactor, fusion reactor, breeder r	reactor and the like	digital-to-analogue conversion, automatic machine tool	101 114
nuclear reactor design, still classified	1953 Mar p 45	1952 Sept p	101-114
nuclear rocket, nuclear propulsion, ion propulsion	1959 May p 46–51	numerical taxonomy, botany, taxonomy, set theory, computer applications, zoology, computer classification of living thing	
rocket propulsion by nuclear reactions feasibility minimized	1949 June p 26	1966 Dec p 106–1	
nuclear-spin echo, crystal structure, phase memory	-	numismatics, archeology, coins, statistics, Taxila hoard, India	10 [1055]
mucical-spin ecilo, crystal structure, phase memory	1968 Apr p 32–40	1966 Feb p	102-111
nuclear stability, alpha decay, transuranium eleme			
nuclear stability, alpha decay, transuranium eleme decay, radioactive decay, 'synthetic' elements	ents, isotopes, beta	•	120-130
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103	ents, isotopes, beta s, periodic table, the 1969 Apr p 56-67	coins, counterfeiting, Roman Britain 1974 Dec p	120–130 Iding
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross so	ents, isotopes, beta s, periodic table, the 1969 Apr p 56–67 ections, 'model atom',	coins, counterfeiting, Roman Britain 1974 Dec p nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, nitrogen fertilizer, soil structure, foo	120–130 lding p 62–69 d and
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross so 'cloudy crystal ball'	ents, isotopes, beta s, periodic table, the 1969 Apr p 56-67 ections, 'model atom', 1955 Dec p 84-91	coins, counterfeiting, Roman Britain 1974 Dec p nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, nitrogen fertilizer, soil structure, foo agriculture, food chain 1976 Sept	120–130 lding p 62–69 d and
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross so 'cloudy crystal ball' nuclear submarine, 'Thresher' post mortem	ents, isotopes, beta s, periodic table, the 1969 Apr p 56-67 ections, 'model atom', 1955 Dec p 84-91 1963 Nov p 66	coins, counterfeiting, Roman Britain 1974 Dec p nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, nitrogen fertilizer, soil structure, foo agriculture, food chain 1976 Sept nutrition, see human nutrition, diet, food chain	120–130 lding p 62–69 d and p 74–86
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross so 'cloudy crystal ball' nuclear submarine, 'Thresher' post mortem nuclear surface, alpha clustering, alpha particles, a	ents, isotopes, beta s, periodic table, the 1969 Apr p 56–67 ections, 'model atom', 1955 Dec p 84–91 1963 Nov p 66 atomic nucleus,	coins, counterfeiting, Roman Britain 1974 Dec p nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, nitrogen fertilizer, soil structure, foo agriculture, food chain 1976 Sept nutrition, see human nutrition, diet, food chain nylon, synthetic fiber, rayon, synthetic macromolecules, cellulose	120-130 Ilding p 62-69 d and p 74-86
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross so 'cloudy crystal ball' nuclear submarine, 'Thresher' post mortem nuclear surface, alpha clustering, alpha particles, a elementary particles, nuclear clustering, neut	ents, isotopes, beta s, periodic table, the 1969 Apr p 56–67 ections, 'model atom', 1955 Dec p 84–91 1963 Nov p 66 atomic nucleus, iron nuclear forces,	coins, counterfeiting, Roman Britain 1974 Dec p nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, nitrogen fertilizer, soil structure, foo agriculture, food chain 1976 Sept nutrition, see human nutrition, diet, food chain nylon, synthetic fiber, rayon, synthetic macromolecules, cellulose man-made textile fibers 1951 July	120–130 ilding p 62–69 d and p 74–86 e, glass, p 37–45
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross so 'cloudy crystal ball' nuclear submarine, 'Thresher' post mortem nuclear surface, alpha clustering, alpha particles, a elementary particles, nuclear clustering, neut proton	ents, isotopes, beta s, periodic table, the 1969 Apr p 56–67 ections, 'model atom', 1955 Dec p 84–91 1963 Nov p 66 atomic nucleus, fron nuclear forces, 1972 Oct p 100–108	coins, counterfeiting, Roman Britain 1974 Dec p nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, nitrogen fertilizer, soil structure, foo agriculture, food chain 1976 Sept nutrition, see human nutrition, diet, food chain nylon, synthetic fiber, rayon, synthetic macromolecules, cellulose man-made textile fibers 1951 July	120-130 Ilding p 62-69 d and p 74-86
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross so 'cloudy crystal ball' nuclear submarine, 'Thresher' post mortem nuclear surface, alpha clustering, alpha particles, a elementary particles, nuclear clustering, neut proton nuclear tracks, cosmic radiation, fission-track dat	ents, isotopes, beta s, periodic table, the 1969 Apr p 56-67 ections, 'model atom', 1955 Dec p 84-91 1963 Nov p 66 atomic nucleus, ron nuclear forces, 1972 Oct p 100-108 ing etching, ionizing	coins, counterfeiting, Roman Britain 1974 Dec p nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, nitrogen fertilizer, soil structure, foo agriculture, food chain 1976 Sept nutrition, see human nutrition, diet, food chain nylon, synthetic fiber, rayon, synthetic macromolecules, cellulose man-made textile fibers 1951 July	120–130 ilding p 62–69 d and p 74–86 e, glass, p 37–45
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross so 'cloudy crystal ball' nuclear submarine, 'Thresher' post mortem nuclear surface, alpha clustering, alpha particles, a elementary particles, nuclear clustering, neut proton	ents, isotopes, beta s, periodic table, the 1969 Apr p 56-67 ections, 'model atom', 1955 Dec p 84-91 1963 Nov p 66 atomic nucleus, ron nuclear forces, 1972 Oct p 100-108 ing etching, ionizing	coins, counterfeiting, Roman Britain 1974 Dec p nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, nitrogen fertilizer, soil structure, foo agriculture, food chain 1976 Sept nutrition, see human nutrition, diet, food chain nylon, synthetic fiber, rayon, synthetic macromolecules, cellulose man-made textile fibers 1951 July	120–130 ilding p 62–69 d and p 74–86 e, glass, p 37–45
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross so 'cloudy crystal ball' nuclear submarine, 'Thresher' post mortem nuclear surface, alpha clustering, alpha particles, a elementary particles, nuclear clustering, neut proton nuclear tracks, cosmic radiation, fission-track dat	ents, isotopes, beta is, periodic table, the 1969 Apr p 56-67 ections, 'model atom', 1955 Dec p 84-91 1963 Nov p 66 atomic nucleus, ron nuclear forces, 1972 Oct p 100-108 ing etching, ionizing acks in solids 1969 June p 30-39	coins, counterfeiting, Roman Britain 1974 Dec p nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, nitrogen fertilizer, soil structure, foo agriculture, food chain 1976 Sept nutrition, see human nutrition, diet, food chain nylon, synthetic fiber, rayon, synthetic macromolecules, cellulose man-made textile fibers 1951 July	120–130 ilding p 62–69 d and p 74–86 e, glass, p 37–45
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross so 'cloudy crystal ball' nuclear submarine, 'Thresher' post mortem nuclear surface, alpha clustering, alpha particles, a elementary particles, nuclear clustering, neut proton nuclear tracks, cosmic radiation, fission-track dat radiation, applications of charged-particle tracks nuclear-waste disposal, energy conservation, energing reactor, fission reactor, atomic-weapon probi	ents, isotopes, beta 5, periodic table, the 1969 Apr p 56–67 ections, 'model atom'. 1955 Dec p 84–91 1963 Nov p 66 atomic nucleus, eron nuclear forces, 1972 Oct p 100–108 ing etching, ionizing acks in solids 1969 June p 30–39 gy resources, nuclear feration, Rasmussen	coins, counterfeiting, Roman Britain 1974 Dec p nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, nitrogen fertilizer, soil structure, foo agriculture, food chain 1976 Sept nutrition, see human nutrition, diet, food chain nylon, synthetic fiber, rayon, synthetic macromolecules, cellulose man-made textile fibers 1951 July in filters 1952 A	120–130 Ilding p 62–69 d and p 74–86 c. glass, p 37–45 aug p 34
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross so 'cloudy crystal ball' nuclear submarine, 'Thresher' post mortem nuclear surface, alpha clustering, alpha particles, a elementary particles, nuclear clustering, neut proton nuclear tracks, cosmic radiation, fission-track dat radiation, applications of charged-particle tracks nuclear-waste disposal, energy conservation, energy reactor, fission reactor, atomic-weapon proliticiport	ents, isotopes, beta 5, periodic table, the 1969 Apr p 56–67 ections, 'model atom', 1955 Dec p 84–91 1963 Nov p 66 atomic nucleus, ron nuclear forces, 1972 Oct p 100–108 ing etching, ionizing acks in solids 1969 June p 30–39 gy resources, nuclear feration, Rasmussen 1976 Jan p 21–31 [348]	coins, counterfeiting, Roman Britain 1974 Dec p nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, nitrogen fertilizer, soil structure, foo agriculture, food chain 1976 Sept nutrition, see human nutrition, diet, food chain nylon, synthetic fiber, rayon, synthetic macromolecules, cellulose man-made textile fibers 1951 July in filters 1952 A	120–130 diding p 62–69 d and p 74–86 e. glass, p 37–45 aug p 34
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross so 'cloudy crystal ball' nuclear submarine, 'Thresher' post mortem nuclear surface, alpha clustering, alpha particles, a elementary particles, nuclear clustering, neut proton nuclear tracks, cosmic radiation, fission-track dat radiation, applications of charged-particle tracks nuclear-waste disposal, energy conservation, energy reactor, fission reactor, atomic-weapon proliticiport nuclear weapon, see atomic bomb, hydrogen bon	ents, isotopes, beta 5, periodic table, the 1969 Apr p 56–67 ections, 'model atom', 1955 Dec p 84–91 1963 Nov p 66 atomic nucleus, ron nuclear forces, 1972 Oct p 100–108 ing etching, ionizing acks in solids 1969 June p 30–39 gy resources, nuclear feration, Rasmussen 1976 Jan p 21–31 [348] nb, neutron bomb	coins, counterfeiting, Roman Britain 1974 Dec p nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, nitrogen fertilizer, soil structure, foo agriculture, food chain 1976 Sept nutrition, see human nutrition, diet, food chain nylon, synthetic fiber, rayon, synthetic macromolecules, cellulose man-made textile fibers 1951 July in filters 1952 A	120–130 diding p 62–69 d and p 74–86 e. glass, p 37–45 aug p 34
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross so 'cloudy crystal ball' nuclear submarine, 'Thresher' post mortem nuclear surface, alpha clustering, alpha particles, a elementary particles, nuclear clustering, neut proton nuclear tracks, cosmic radiation, fission-track dat radiation, applications of charged-particle traces nuclear-waste disposal, energy conservation, energy reactor, fission reactor, atomic-weapon prolitice report nuclear weapon, see atomic bomb, hydrogen bon nucleation, fluid dynamics, liquid, supercooling of	ents, isotopes, beta b, periodic table, the 1969 Apr p 56–67 ections, 'model atom', 1955 Dec p 84–91 1963 Nov p 66 atomic nucleus, fron nuclear forces, 1972 Oct p 100–108 ling etching, ionizing acks in solids 1969 June p 30–39 gy resources, nuclear feration, Rasmussen 1976 Jan p 21–31 [348] inb, neutron bomb cryogenics crystal	coins, counterfeiting, Roman Britain 1974 Dec p nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, nitrogen fertilizer, soil structure, foo agriculture, food chain 1976 Sept nutrition, see human nutrition, diet, food chain nylon, synthetic fiber, rayon, synthetic macromolecules, cellulose man-made textile fibers 1951 July in filters 1952 A Oak, agronomy, auxins, plant growth, giberellin, function of plan hormone 1957 Apr p 125 oak blight, fungi, forestry, threat to U S oak population	120–130 diding p 62–69 d and p 74–86 e. glass, p 37–45 aug p 34
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross so 'cloudy crystal ball' nuclear submarine, 'Thresher' post mortem nuclear surface, alpha clustering, alpha particles, a elementary particles, nuclear clustering, neut proton nuclear tracks, cosmic radiation, fission-track dat radiation, applications of charged-particle trace nuclear-waste disposal, energy conservation, energy reactor, fission reactor, atomic-weapon proli report nuclear weapon, see atomic bomb, hydrogen bon nucleation, fluid dynamics, liquid, supercooling of growth behavior of supercooled fluids	ents, isotopes, beta 5, periodic table, the 1969 Apr p 56–67 ections, 'model atom', 1955 Dec p 84–91 1963 Nov p 66 atomic nucleus, ron nuclear forces, 1972 Oct p 100–108 ing etching, ionizing acks in solids 1969 June p 30–39 gy resources, nuclear feration, Rasmussen 1976 Jan p 21–31 [348] inb, neutron bomb cryogenics crystal 1965 Jan p 38–46	coins, counterfeiting, Roman Britain 1974 Dec p nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, nitrogen fertilizer, soil structure, foo agriculture, food chain 1976 Sept nutrition, see human nutrition, diet, food chain nylon, synthetic fiber, rayon, synthetic macromolecules, cellulose man-made textile fibers 1951 July in filters 1952 A Oak, agronomy, auxins, plant growth, giberellin, function of plan hormone 1957 Apr p 125 oak blight, fungi, forestry, threat to U S oak population 1957 May p	120–130 Ilding p 62–69 d and p 74–86 e. glass, p 37–45 aug p 34 it growth –134 [11]
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross so 'cloudy crystal ball' nuclear submarine, 'Thresher' post mortem nuclear surface, alpha clustering, alpha particles, a elementary particles, nuclear clustering, neut proton nuclear tracks, cosmic radiation, fission-track dat radiation, applications of charged-particle trace nuclear-waste disposal, energy conservation, energors nuclear weapon, see atomic bomb, hydrogen bon nuclearion, fluid dynamics, liquid, supercooling of growth behavior of supercooled fluids nucleic acid, interferon, virology, virus interference	ents, isotopes, beta is, periodic table, the 1969 Apr p 56–67 ections, 'model atom', 1955 Dec p 84–91 1963 Nov p 66 atomic nucleus, iron nuclear forces, 1972 Oct p 100–108 ing etching, ionizing acks in solids 1969 June p 30–39 gy resources, nuclear feration, Rasmussen 1976 Jan p 21–31 [348] inb, neutron bomb cryogenics crystal 1965 Jan p 38–46 ce, infection, anti-varal	coins, counterfeiting, Roman Britain 1974 Dec p nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, nitrogen fertilizer, soil structure, foo agriculture, food chain 1976 Sept nutrition, see human nutrition, diet, food chain nylon, synthetic fiber, rayon, synthetic macromolecules, cellulose man-made textile fibers 1951 July in filters 1952 A O oak, agronomy, auxins, plant growth, giberellin, function of plar hormone 1957 Apr p 125 oak blight, fungi, forestry, threat to U S oak population 1957 May p Chalara quercina	120–130 Ilding p 62–69 d and p 74–86 c. glass, p 37–45 aug p 34 it growth –134 [11] 112–122 apr p 32
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross so 'cloudy crystal ball' nuclear submarine, 'Thresher' post mortem nuclear surface, alpha clustering, alpha particles, a elementary particles, nuclear clustering, neut proton nuclear tracks, cosmic radiation, fission-track dat radiation, applications of charged-particle trace nuclear-waste disposal, energy conservation, energy reactor, fission reactor, atomic-weapon proli report nuclear weapon, see atomic bomb, hydrogen bon nucleation, fluid dynamics, liquid, supercooling of growth behavior of supercooled fluids	ents, isotopes, beta is, periodic table, the 1969 Apr p 56–67 ections, 'model atom', 1955 Dec p 84–91 1963 Nov p 66 atomic nucleus, ron nuclear forces, 1972 Oct p 100–108 ing etching, ionizing acks in solids 1969 June p 30–39 gy resources, nuclear feration, Rasmussen 1976 Jan p 21–31 [348] inb, neutron bomb cryogenics crystal 1965 Jan p 38–46 ce, infection, anti-viral	coins, counterfeiting, Roman Britain 1974 Dec p nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, introgen fertilizer, soil structure, foo agriculture, food chain 1976 Sept nutrition, see human nutrition, diet, food chain nylon, synthetic fiber, rayon, synthetic macromolecules, cellulose man-made textile fibers 1951 July in filters 1952 A O oak, agronomy, auxins, plant growth, giberellin, function of plan hormone 1957 Apr p 125 oak blight, fungi, forestry, threat to U S oak population 1957 May p Chalara quercina 1950 A oak blight spreads 1958 A	120–130 Ilding p 62–69 d and p 74–86 c, glass, p 37–45 aug p 34 It growth 134 [11] I12–122 Apr p 32 Apr p 32
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross se 'cloudy crystal ball' nuclear submarine, 'Thresher' post mortem nuclear surface, alpha clustering, alpha particles, elementary particles, nuclear clustering, neut proton nuclear tracks, cosmic radiation, fission-track dat radiation, applications of charged-particle traction, applications of charged-particle traction, fission reactor, atomic-weapon proli report nuclear weapon, see atomic bomb, hydrogen bon nucleation, fluid dynamics, liquid, supercooling of growth behavior of supercooled fluids nucleic acid, interferon, virology, virus interferent agent found to act against foreign nucleic acid	ents, isotopes, beta 6, periodic table, the 1969 Apr p 56–67 ections, 'model atom', 1955 Dec p 84–91 1963 Nov p 66 atomic nucleus, eron nuclear forces, 1972 Oct p 100–108 ing etching, ionizing acks in solids 1969 June p 30–39 gy resources, nuclear feration, Rasmussen 1976 Jan p 21–31 [348] nb, neutron bomb cryogenies crystal 1965 Jan p 38–46 ce, infection, anti-viral ind 1963 Oct p 46–50 [166]	coins, counterfeiting, Roman Britain 1974 Dec p nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, introgen fertilizer, soil structure, foo agriculture, food chain 1976 Sept nutrition, see human nutrition, diet, food chain nylon, synthetic fiber, rayon, synthetic macromolecules, cellulose man-made texule fibers 1951 July in filters 1952 A oak, agronomy, auxins, plant growth, giberellin, function of plan hormone 1957 Apr p 125 oak blight, fungi, forestry, threat to U S oak population 1957 May p Chalara quercina 1958 A oak blight spreads 1958 A obelisk, a feat of Renaissance engineering 1951 June	120–130 Ilding p 62–69 d and p 74–86 c, glass, p 37–45 aug p 34 It growth 134 [11] I12–122 Apr p 32 Apr p 32
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross so 'cloudy crystal ball' nuclear submarine, 'Thresher' post mortem nuclear surface, alpha clustering, alpha particles, a elementary particles, nuclear clustering, neut proton nuclear tracks, cosmic radiation, fission-track dat radiation, applications of charged-particle tradiation, applications of charged-particle tradiation, applications of charged-particle tradiation, fission reactor, atomic-weapon proli report nuclear-waste disposal, energy conservation, energy reactor, fission reactor, atomic-weapon proli report nuclear weapon, see atomic bomb, hydrogen bon nucleation, fluid dynamics, liquid, supercooling of growth behavior of supercooled fluids nucleic acid, interferon, virology, virus interferent agent found to act against foreign nucleic acid. RNA, nucleotide sequence, alanine, tRNA, enactional secuence.	ents, isotopes, beta is, periodic table, the 1969 Apr p 56–67 ections, 'model atom', 1955 Dec p 84–91 1963 Nov p 66 atomic nucleus, ron nuclear forces, 1972 Oct p 100–108 ing etching, ionizing acks in solids 1969 June p 30–39 gy resources, nuclear feration, Rasmussen 1976 Jan p 21–31 [348] inb, neutron bomb cryogenics crystal 1965 Jan p 38–46 ce, infection, anti-viral and 1963 Oct p 46–50 [166] zyme cleavage, fragment 966 Feb p 30–39 [1033]	coins, counterfeiting, Roman Britain 1974 Dec p nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, introgen fertilizer, soil structure, foo agriculture, food chain 1976 Sept nutrition, see human nutrition, diet, food chain nylon, synthetic fiber, rayon, synthetic macromolecules, cellulose man-made textile fibers 1951 July in filters 1952 A Oak, agronomy, auxins, plant growth, giberellin, function of plan hormone 1957 Apr p 125 oak blight, fungi, forestry, threat to U S oak population 1957 May p Chalara quercina 1950 A oak blight spreads 1958 A obelisk, a feat of Renaissance engineering 1951 June obesity, human nutrition hunger, appetite, neurophysiology.	120–130 Ilding p 62–69 d and p 74–86 e. glass, p 37–45 aug p 34 It growth 134 [11] 112–122 apr p 32 apr p 32 p 58–59
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross so 'cloudy crystal ball' nuclear submarine, 'Thresher' post mortem nuclear surface, alpha clustering, alpha particles, a elementary particles, nuclear clustering, neut proton nuclear tracks, cosmic radiation, fission-track dat radiation, applications of charged-particle traction, applications of charged-particle traction, fission reactor, atomic-weapon proli report nuclear weapon, see atomic bomb, hydrogen bon nucleation, fluid dynamics, liquid, supercooling of growth behavior of supercooled fluids nucleic acid, interferon, virology, virus interferent agent found to act against foreign nucleic acid. RNA, nucleotide sequence, alanine, tRNA, emassembly, first nucleotide sequence.	ents, isotopes, beta is, periodic table, the 1969 Apr p 56–67 ections, 'model atom', 1955 Dec p 84–91 1963 Nov p 66 atomic nucleus, ron nuclear forces, 1972 Oct p 100–108 ing etching, ionizing acks in solids 1969 June p 30–39 gy resources, nuclear feration, Rasmussen 1976 Jan p 21–31 [348] in, neutron bomb cryogenics crystal 1965 Jan p 38–46 ce, infection, anti-viral and 1963 Oct p 46–50 [166] zyme cleavage, fragment 966 Feb p 30–39 [1033] rotein 'overcoat',	coins, counterfeiting, Roman Britain 1974 Dec p nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, nitrogen fertilizer, soil structure, foo agriculture, food chain 1976 Sept nutrition, see human nutrition, diet, food chain nylon, synthetic fiber, rayon, synthetic macromolecules, cellulose man-made textile fibers 1951 July in filters 1952 A Oak, agronomy, auxins, plant growth, giberellin, function of plan hormone 1957 Apr p 125 oak blight, fungi, forestry, threat to U S oak population Chalara quercina 1950 A oak blight spreads obelisk, a feat of Renaissance engineering 1951 June obesity, human nutrition hunger, appetite, neurophysiology, physiological mechanisms of overeating 1956 No. p	120–130 Ilding p 62–69 d and p 74–86 c, glass, p 37–45 aug p 34 It growth 134 [11] 112–122 apr p 32 p 58–59
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross so 'cloudy crystal ball' nuclear submarine, 'Thresher' post mortem nuclear surface, alpha clustering, alpha particles, a elementary particles, nuclear clustering, neut proton nuclear tracks, cosmic radiation, fission-track dat radiation, applications of charged-particle tradiation, applications of charged-particle tradiation, applications of charged-particle tradiation, fission reactor, atomic-weapon proli report nuclear-waste disposal, energy conservation, energy reactor, fission reactor, atomic-weapon proli report nuclear weapon, see atomic bomb, hydrogen bon nucleation, fluid dynamics, liquid, supercooling of growth behavior of supercooled fluids nucleic acid, interferon, virology, virus interferent agent found to act against foreign nucleic acid. RNA, nucleotide sequence, alanine, tRNA, enactional secuence.	ents, isotopes, beta is, periodic table, the 1969 Apr p 56–67 ections, 'model atom', 1955 Dec p 84–91 1963 Nov p 66 atomic nucleus, ron nuclear forces, 1972 Oct p 100–108 ing etching, ionizing acks in solids 1969 June p 30–39 gy resources, nuclear feration, Rasmussen 1976 Jan p 21–31 [348] into, neutron bomb cryogenics crystal 1965 Jan p 38–46 ce, infection, anti-viral and 1963 Oct p 46–50 [166] zyme cleavage, fragment 966 Feb p 30–39 [1033] rotein 'overcoat', particles	coins, counterfeiting, Roman Britain nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, introgen fertilizer, soil structure, foo agriculture, food chain 1976 Sept nutrition, see human nutrition, diet, food chain nylon, synthetic fiber, rayon, synthetic macromolecules, cellulose man-made textile fibers 1951 July in filters 1952 A O oak, agronomy, auxins, plant growth, giberellin, function of plan hormone 1957 Apr p 125 oak blight, fungi, forestry, threat to U S oak population 1957 May p Chalara quercina 1950 A oak blight spreads 1958 A obelisk, a feat of Renaissance engineering obesity, human nutrition hunger, appetite; neurophysiology, physiological mechanisms of overeating 1956 Nov p fat metabolism tissue, hormone, fat tissue, diet, role of fat me- in human physiology 1959 Dec	120–130 Ilding p 62–69 d and p 74–86 e. glass, p 37–45 aug p 34 It growth 134 [11] I12–122 apr p 32 apr p 32 p 58–59 108–116 cabolism
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross so 'cloudy crystal ball' nuclear submarine, 'Thresher' post mortem nuclear surface, alpha clustering, alpha particles, a elementary particles, nuclear clustering, neut proton nuclear tracks, cosmic radiation, fission-track dat radiation, applications of charged-particle tradiation, applications of charged-particle tractor, fission reactor, atomic-weapon profit report nuclear-waste disposal, energy conservation, energing reactor, fission reactor, atomic-weapon profit report nuclear weapon, see atomic bomb, hydrogen bon nucleation, fluid dynamics, liquid, supercooling of growth behavior of supercooled fluids nucleic acid, interferon, virology, virus interferent agent found to act against foreign nucleic acid. RNA, nucleotide sequence, alanine, tRNA, encassembly, first nucleotide sequence. I nucleic acid 'core', virus, tobacco mosaic virus profits dissociation and reconstitution of infective profits.	ents, isotopes, beta is, periodic table, the 1969 Apr p 56–67 ections, 'model atom', 1955 Dec p 84–91 1963 Nov p 66 atomic nucleus, iron nuclear forces, 1972 Oct p 100–108 ing etching, ionizing acks in solids 1969 June p 30–39 gy resources, nuclear feration, Rasmussen 1976 Jan p 21–31 [348] inb, neutron bomb cryogenics crystal 1965 Jan p 38–46 ce, infection, anti-viral ind 1963 Oct p 46–50 [166] zyme cleavage, fragment 966 Feb p 30–39 [1033] rotein 'overcoat', particles	coins, counterfeiting, Roman Britain 1974 Dec p nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, nitrogen fertilizer, soil structure, foo agriculture, food chain 1976 Sept nutrition, see human nutrition, diet, food chain nylon, synthetic fiber, rayon, synthetic macromolecules, cellulose man-made textile fibers 1951 July in filters 1952 A Oak, agronomy, auxins, plant growth, giberellin, function of plan hormone 1957 Apr p 125 oak blight, fungi, forestry, threat to U S oak population 1957 May p Chalara quercina 1950 A oak blight spreads 1958 A obelisk, a feat of Renaissance engineering 1951 June obesity, human nutrition hunger, appetite, neurophysiology, physiological mechanisms of overeating 1956 Nov p fat metabolism tissue, hormone, fat tissue, diet, role of fat me in human physiology 1959 Dec	120–130 Ilding p 62–69 d and p 74–86 e. glass, p 37–45 aug p 34 It growth 134 [11] 112–122 Apr p 32 Apr p 32 p 58–59 108–116 abolism p 70–76
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross so 'cloudy crystal ball' nuclear submarine, 'Thresher' post mortem nuclear surface, alpha clustering, alpha particles, a elementary particles, nuclear clustering, neut proton nuclear tracks, cosmic radiation, fission-track dat radiation, applications of charged-particle tradiation, applications of charged-particle tradiation, applications of charged-particle tradiation, fission reactor, atomic-weapon proli report nuclear-waste disposal, energy conservation, energy reactor, fission reactor, atomic-weapon proli report nuclear weapon, see atomic bomb, hydrogen bon nucleation, fluid dynamics, liquid, supercooling of growth behavior of supercooled fluids nucleic acid, interferon, virology, virus interferent agent found to act against foreign nucleic acid. RNA, nucleotide sequence, alanine, tRNA, encassembly, first nucleotide sequence nucleic acid 'core', virus, tobacco mosaic virus produced dissociation and reconstitution of infective procedures.	ents, isotopes, beta is, periodic table, the 1969 Apr p 56–67 ections, 'model atom', 1955 Dec p 84–91 1963 Nov p 66 atomic nucleus, iron nuclear forces, 1972 Oct p 100–108 ing etching, ionizing acks in solids 1969 June p 30–39 gy resources, nuclear feration, Rasmussen 1976 Jan p 21–31 [348] ind, neutron bomb cryogenics crystal 1965 Jan p 38–46 ce, infection, anti-viral and 1963 Oct p 46–50 [166] zyme cleavage, fragment 966 Feb p 30–39 [1033] rotein 'overcoat', particles 1956 June p 42–47 age of universe element	coins, counterfeiting, Roman Britain 1974 Dec p nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, introgen fertilizer, soil structure, foo agriculture, food chain 1976 Sept nutrition, see human nutrition, diet, food chain nylon, synthetic fiber, rayon, synthetic macromolecules, cellulose man-made textile fibers 1951 July in filters 1952 A oak, agronomy, auxins, plant growth, giberellin, function of planthormone 1957 Apr p 125 oak blight, fungi, forestry, threat to U S oak population Chalara quercina 1950 A oak blight spreads 1958 A obelisk, a feat of Renaissance engineering 1951 June obesity, human nutrition hunger, appetite, neurophysiology, physiological mechanisms of overeating 1956 Nov p fat metabolism tissue, hormone, fat tissue, diet, role of fat me in human physiology 1959 Dec	120–130 Ilding p 62–69 d and p 74–86 e. glass, p 37–45 aug p 34 It growth 134 [11] 112–122 Apr p 32 Apr p 32 p 58–59 108–116 abolism p 70–76 aug p 44
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross so 'cloudy crystal ball' nuclear submarine, 'Thresher' post mortem nuclear surface, alpha clustering, alpha particles, a elementary particles, nuclear clustering, neut proton nuclear tracks, cosmic radiation, fission-track dat radiation, applications of charged-particle tradiation, applications of charged-particle tractor, fission reactor, atomic-weapon profit report nuclear-waste disposal, energy conservation, energing reactor, fission reactor, atomic-weapon profit report nuclear weapon, see atomic bomb, hydrogen bon nucleation, fluid dynamics, liquid, supercooling of growth behavior of supercooled fluids nucleic acid, interferon, virology, virus interferent agent found to act against foreign nucleic acid. RNA, nucleotide sequence, alanine, tRNA, encassembly, first nucleotide sequence. I nucleic acid 'core', virus, tobacco mosaic virus profits dissociation and reconstitution of infective profits.	ents, isotopes, beta is, periodic table, the 1969 Apr p 56–67 ections, 'model atom', 1955 Dec p 84–91 1963 Nov p 66 atomic nucleus, iron nuclear forces, 1972 Oct p 100–108 ing etching, ionizing acks in solids 1969 June p 30–39 gy resources, nuclear feration, Rasmussen 1976 Jan p 21–31 [348] inb, neutron bomb cryogenics crystal 1965 Jan p 38–46 ce, infection, anti-viral ind 1963 Oct p 46–50 [166] zyme cleavage, fragment 966 Feb p 30–39 [1033] rotein 'overcoat', particles 1956 June p 42–47 age of universe element indes tellar evolution	coins, counterfeiting, Roman Britain nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, introgen fertilizer, soil structure, foo agriculture, food chain 1976 Sept nutrition, see human nutrition, diet, food chain nylon, synthetic fiber, rayon, synthetic macromolecules, cellulose man-made textile fibers 1951 July in filters 1952 A oak, agronomy, auxins, plant growth, giberellin, function of plan hormone 1957 Apr p 125 oak blight, fungi, forestry, threat to U S oak population 1957 May p Chalara quercina 1957 May p Chalara quercina 1958 A obelisk, a feat of Renaissance engineering 1951 June obesity, human nutrition hunger, appetite, neurophysiology, physiological mechanisms of overeating 1956 Nov p fat metabolism tissue, hormone, fat tissue, diet, role of fat me in human physiology 1959 Dec baby fat, pathological obesity 1973 A object concept, child development, eye-hand coordination infan perceptions, perceptual development	120–130 Ilding p 62–69 d and p 74–86 e. glass, p 37–45 aug p 34 It growth 134 [11] I12–122 apr p 32 apr p 32 p 58–59 I08–116 abolism p 70–76 aug p 44 aug p 44
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross so 'cloudy crystal ball' nuclear submarine, 'Thresher' post mortem nuclear surface, alpha clustering, alpha particles, a elementary particles, nuclear clustering, neut proton nuclear tracks, cosmic radiation, fission-track dat radiation, applications of charged-particle traction, applications of charged-particle traction, applications of charged-particle traction, fission reactor, atomic-weapon proli report nuclear-waste disposal, energy conservation, energing reactor, fission reactor, atomic-weapon proli report nuclear-waste disposal, energy conservation, energing reactor, fission reactor, atomic-weapon proli report nuclear-waste disposal, energy conservation, energing reactor, fluid dynamics, liquid, supercooling of growth behavior of supercooled fluids nucleic acid, interferon, virology, virus interferent agent found to act against foreign nucleic acid core', virus, tobacco mosaic virus pusissociation and reconstitution of infective pusissociation and reconstitution of infective pusissociation and reconstitution of infective pusissociation, mass spectroscopy, radioactive nucleons, mesons particle accelerator, pions pro	ents, isotopes, beta is, periodic table, the 1969 Apr p 56–67 ections, 'model atom', 1955 Dec p 84–91 1963 Nov p 66 atomic nucleus, iron nuclear forces, 1972 Oct p 100–108 ing etching, ionizing acks in solids 1969 June p 30–39 gy resources, nuclear feration, Rasmussen 1976 Jan p 21–31 [348] ind, neutron bomb cryogenics crystal 1965 Jan p 38–46 ce, infection, anti-viral ind 1963 Oct p 46–50 [166] zyme cleavage, fragment 966 Feb p 30–39 [1033] rotein 'overcoat', particles 1956 June p 42–47 age of universe element inclei stellar evolution 1974 Jan p 69–77 pron quark high-generes	coins, counterfeiting, Roman Britain nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, nitrogen fertilizer, soil structure, foo agriculture, food chain nutrition, see human nutrition, diet, food chain nylon, synthetic fiber, rayon, synthetic macromolecules, cellulose man-made textile fibers 1951 July in filters 1957 Apr p 125 oak blight, fungi, forestry, threat to U S oak population 1957 May p Chalara quercina 1950 A oak blight spreads obelisk, a feat of Renaissance engineering obesity, human nutrition hunger, appetite, neurophysiology, physiological mechanisms of overeating 1958 Nov p fat metabolism tissue, hormone, fat tissue, diet, role of fat me in human physiology baby fat, pathological obesity object concept, child development, eye-hand coordination infan perceptions, perceptual development 1971 Oct p 30 oboe, musical instruments vibrating air column, clarinet. fluite h	120–130 Ilding p 62–69 d and p 74–86 e. glass, p 37–45 aug p 34 It growth 134 [11] I12–122 apr p 32 apr p 32 p 58–59 I08–116 abolism p 70–76 aug p 44 aug p 44
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross so 'cloudy crystal ball' nuclear submarine, 'Thresher' post mortem nuclear surface, alpha clustering, alpha particles, a elementary particles, nuclear clustering, neut proton nuclear tracks, cosmic radiation, fission-track dat radiation, applications of charged-particle traction, applications of charged-particle traction, applications of charged-particle traction, fission reactor, atomic-weapon proli report nuclear-waste disposal, energy conservation, energing reactor, fission reactor, atomic-weapon proli report nuclear-waste disposal, energy conservation, energing reactor, fission reactor, atomic-weapon proli report nuclear-waste disposal, energy conservation, energing reactor, fluid dynamics, liquid, supercooling of growth behavior of supercooled fluids nucleic acid, interferon, virology, virus interferent agent found to act against foreign nucleic acid core', virus, tobacco mosaic virus pusissociation and reconstitution of infective pusissociation and reconstitution of infective pusissociation and reconstitution of infective pusissociation, mass spectroscopy, radioactive nucleons, mesons particle accelerator, pions pro	ents, isotopes, beta is, periodic table, the 1969 Apr p 56–67 ections, 'model atom', 1955 Dec p 84–91 1963 Nov p 66 atomic nucleus, iron nuclear forces, 1972 Oct p 100–108 ing etching, ionizing acks in solids 1969 June p 30–39 gy resources, nuclear feration, Rasmussen 1976 Jan p 21–31 [348] ind, neutron bomb cryogenics crystal 1965 Jan p 38–46 ce, infection, anti-viral and 1963 Oct p 46–50 [166] zyme cleavage, fragment 966 Feb p 30–39 [1033] rotein 'overcoat', particles 1956 June p 42–47 age of universe element inclei stellar evolution 1974 Jan p 69–77 oton, quark, high-energy ering	coins, counterfeiting, Roman Britain 1974 Dec p nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, nitrogen fertilizer, soil structure, foo agriculture, food chain 1976 Sept nutrition, see human nutrition, diet, food chain nylon, synthetic fiber, rayon, synthetic macromolecules, cellulose man-made textile fibers 1951 July in filters 1952 A Oak, agronomy, auxins, plant growth, giberellin, function of plan hormone 1957 Apr p 125 oak blight, fungi, forestry, threat to U S oak population Chalara quercina 1957 May p Chalara quercina 1957 May p Chalara quercina 1958 A oak blight spreads 1958 A obelisk, a feat of Renaissance engineering 1951 June obesity, human nutrition hunger, appetite, neurophysiology, physiological mechanisms of overeating 1956 Nov p fat metabolism tissue, hormone, fat tissue, diet, role of fat me in human physiology 1959 Dec baby fat, pathological obesity 1973 A object concept, child development, eye-hand coordination infan perceptions, perceptual development 1971 Oct p 30 oboe, musical instruments vibrating air column, clarinet, flute, b English horn saxophone, physics of the wood winds	120–130 Ilding p 62–69 d and p 74–86 c, glass, p 37–45 aug p 34 It growth 134 [11] I12–122 apr p 32 p 58–59 I08–116 abolism p 70–76 aug p 44 c -38 [539]
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross so 'cloudy crystal ball' nuclear submarine, 'Thresher' post mortem nuclear surface, alpha clustering, alpha particles, a elementary particles, nuclear clustering, neut proton nuclear tracks, cosmic radiation, fission-track dat radiation, applications of charged-particle tractions of charged-particle tractions applications of charged-particle tractions. In the submariance of t	ents, isotopes, beta is, periodic table, the 1969 Apr p 56–67 ections, 'model atom', 1955 Dec p 84–91 1963 Nov p 66 atomic nucleus, ron nuclear forces, 1972 Oct p 100–108 ing etching, ionizing acks in solids 1969 June p 30–39 gy resources, nuclear feration, Rasmussen 1976 Jan p 21–31 [348] inb, neutron bomb cryogenics crystal 1965 Jan p 38–46 ce, infection, anti-viral and 1966 Feb p 30–39 [1033] rotein 'overcoat', particles 1956 June p 42–47 age of universe element inclei stellar evolution 1974 Jan p 69–77 oton, quark, high-energy ening 1967 Dec p 76–91	coins, counterfeiting, Roman Britain nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, introgen fertilizer, soil structure, foo agriculture, food chain 1976 Sept nutrition, see human nutrition, diet, food chain nylon, synthetic fiber, rayon, synthetic macromolecules, cellulose man-made textile fibers 1951 July in filters 1952 A oak, agronomy, auxins, plant growth, giberellin, function of plan hormone 1957 Apr p 125 oak blight, fungi, forestry, threat to U S oak population less May p Chalara quercina 1950 A oak blight spreads 1958 A obelisk, a feat of Renaissance engineering 1951 June obesity, human nutrition hunger, appetite, neurophysiology, physiological mechanisms of overeating 1956 Nov p fat metabolism tissue, hormone, fat tissue, diet, role of fat me in human physiology 1959 Dec baby fat, pathological obesity 1973 A object concept, child development, eye-hand coordination infan perceptions, perceptual development 1971 Oct p 30 oboe, musical instruments vibrating air column, clarinet, flute, E English horn saxophone, physics of the wood winds 1960 Oct p observatory, astronomy, scientific instrumentation Tycho Righe	120–130 Ilding p 62–69 d and p 74–86 e. glass, p 37–45 aug p 34 It growth 134 [11] I12–122 Apr p 32 Apr p 32 p 58–59 108–116 abolism p 70–76 aug p 44 t -38 [539] assoon
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross so 'cloudy crystal ball' nuclear submarine, 'Thresher' post mortem nuclear surface, alpha clustering, alpha particles, a elementary particles, nuclear clustering, neut proton nuclear tracks, cosmic radiation, fission-track dat radiation, applications of charged-particle tradiation, applications of charged-particle tradiation, applications of charged-particle tradiation, applications of charged-particle tradiation, fission reactor, atomic-weapon proli report nuclear-waste disposal, energy conservation, energy reactor, fission reactor, atomic-weapon proli report nuclear weapon, see atomic bomb, hydrogen bon nucleation, fluid dynamics, liquid, supercooling of growth behavior of supercooled fluids nucleic acid, interferon, virology, virus interferent agent found to act against foreign nucleic acid. RNA, nucleotide sequence, alanine, tRNA, enassembly, first nucleotide sequence. nucleic acid 'core', virus, tobacco mosaic virus prodissociation and reconstitution of infective processing and reconstitution of infective processing mucleons, mass spectroscopy, radioactive in supernovae nucleons, mesons particle accelerator, pions prophysics. Regge trajectory, high-energy scattinucleoproteins, heredity, chromosome. DNA References	ents, isotopes, beta is, periodic table, the 1969 Apr p 56–67 ections, 'model atom', 1955 Dec p 84–91 1963 Nov p 66 atomic nucleus, iron nuclear forces, 1972 Oct p 100–108 ing etching, ionizing acks in solids 1969 June p 30–39 gy resources, nuclear feration, Rasmussen 1976 Jan p 21–31 [348] inb, neutron bomb cryogenics crystal 1965 Jan p 38–46 ce, infection, anti-viral ind 1963 Oct p 46–50 [166] zyme cleavage, fragment 966 Feb p 30–39 [1033] rotein 'overcoat', particles 1956 June p 42–47 age of universe element inclei stellar evolution 1974 Jan p 69–77 oton, quark, high-energy ening 1967 Dec p 76–91 NA protein synthesis	coins, counterfeiting, Roman Britain nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, introgen fertilizer, soil structure, foo agriculture, food chain 1976 Sept nutrition, see human nutrition, diet, food chain nylon, synthetic fiber, rayon, synthetic macromolecules, cellulose man-made textile fibers 1951 July in filters 1952 A oak, agronomy, auxins, plant growth, giberellin, function of plan hormone 1957 Apr p 125 oak blight, fungi, forestry, threat to U S oak population less May p Chalara quercina 1950 A oak blight spreads 1958 A obelisk, a feat of Renaissance engineering 1951 June obesity, human nutrition hunger, appetite, neurophysiology, physiological mechanisms of overeating 1956 Nov p fat metabolism tissue, hormone, fat tissue, diet, role of fat me in human physiology 1959 Dec baby fat, pathological obesity 1973 A object concept, child development, eye-hand coordination infan perceptions, perceptual development 1971 Oct p 30 oboe, musical instruments vibrating air column, clarinet, flute, E English horn saxophone, physics of the wood winds 1960 Oct p observatory, astronomy, scientific instrumentation Tycho Righe	120–130 Ilding p 62–69 d and p 74–86 e. glass, p 37–45 aug p 34 It growth 134 [11] I12–122 Apr p 32 Apr p 32 p 58–59 108–116 abolism p 70–76 aug p 44 t -38 [539] assoon
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross so 'cloudy crystal ball' nuclear submarine, 'Thresher' post mortem nuclear surface, alpha clustering, alpha particles, a elementary particles, nuclear clustering, neut proton nuclear tracks, cosmic radiation, fission-track dat radiation, applications of charged-particle traction, applications of charged-particle traction, applications of charged-particle traction, fission reactor, atomic-weapon proli report nuclear-waste disposal, energy conservation, energing reactor, fission reactor, atomic-weapon proli report nuclear weapon, see atomic bomb, hydrogen bon nucleation, fluid dynamics, liquid, supercooling of growth behavior of supercooled fluids nucleic acid, interferon, virology, virus interferent agent found to act against foreign nucleic acid nucleic acid 'core', virus, tobacco mosaic virus prodissociation and reconstitution of infective processing formation, mass spectroscopy, age of elements formation, mass spectroscopy, radioactive nucleons, mesons particle accelerator, pions prophysics. Regge trajectory, high-energy scattinucleoproteins, heredity, chromosome, DNA, Right-energy scattinucl	ents, isotopes, beta is, periodic table, the 1969 Apr p 56–67 ections, 'model atom', 1955 Dec p 84–91 1963 Nov p 66 atomic nucleus, ron nuclear forces, 1972 Oct p 100–108 ing etching, ionizing acks in solids 1969 June p 30–39 gy resources, nuclear feration, Rasmussen 1976 Jan p 21–31 [348] in, neutron bomb cryogenics crystal 1965 Jan p 38–46 ce, infection, anti-viral aid 1963 Oct p 46–50 [166] zyme cleavage, fragment 1966 Feb p 30–39 [1033] rotein 'overcoat', particles 1956 June p 42–47 age of universe element inclei stellar evolution 1974 Jan p 69–77 oton, quark, high-energy ering 1967 Dec p 76–91 NA protein synthesis 1953 Feb p 47–57 [281]	coins, counterfeiting, Roman Britain nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, nitrogen fertilizer, soil structure, foo agriculture, food chain 1976 Sept nutrition, see human nutrition, diet, food chain nylon, synthetic fiber, rayon, synthetic macromolecules, cellulose man-made textile fibers 1951 July in filters 1952 A oak, agronomy, auxins, plant growth, giberellin, function of plar hormone 1957 Apr p 125 oak blight, fungi, forestry, threat to U S oak population Chalara quercina 1957 May p Chalara quercina 1957 May p Chalara quercina 1958 A oak blight spreads 1958 A obelisk, a feat of Renaissance engineering 1956 Nov p fat metabolism tissue, hormone, fat tissue, diet, role of fat me in human physiology 1959 Dec baby fat, pathological obesity 1973 A object concept, child development, eye-hand coordination infan perceptions, perceptual development 1971 Oct p 30 oboe, musical instruments vibrating air column, clarinet, flute, b English horn saxophone, physics of the wood winds 1960 Oct p observatory, astronomy, scientific instrumentation Tycho Brahe Stjerneborg, science history, 16th century Hyen observatory	120–130 Ilding p 62–69 d and p 74–86 c, glass, p 37–45 dug p 34 It growth –134 [11] I12–122 Apr p 32 Apr p 32 p 58–59 I08–116 abolism p 70–76 dug p 44 t –38 [539] assoon I44–154
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross so 'cloudy crystal ball' nuclear submarine, 'Thresher' post mortem nuclear surface, alpha clustering, alpha particles, a elementary particles, nuclear clustering, neut proton nuclear tracks, cosmic radiation, fission-track dat radiation, applications of charged-particle tradiation, applications of charged-particle tradiation, applications of charged-particle tradiation, fission reactor, atomic-weapon proli report nuclear-waste disposal, energy conservation, energy reactor, fission reactor, atomic-weapon proli report nuclear weapon, see atomic bomb, hydrogen bon nucleation, fluid dynamics, liquid, supercooling of growth behavior of supercooled fluids nucleic acid, interferon, virology, virus interferent agent found to act against foreign nucleic acid. RNA, nucleotide sequence, alanine, tRNA, encassembly, first nucleotide sequence. nucleic acid 'core', virus, tobacco mosaic virus prodissociation and reconstitution of infective procession, mass spectroscopy, age of elements formation, mass spectroscopy, radioactive nucleons, mesons particle accelerator, pions prophysics. Regge trajectory, high-energy scattinucleons, mesons particle accelerator, pions prophysics. Regge trajectory, high-energy scattinucleons, heredity, chromosome, DNA, R. DNA identified as agent of heredity cell nucleus chromatin chromosomal protein histories oxidative phosphorylation.	ents, isotopes, beta 5, periodic table, the 1969 Apr p 56–67 ections, 'model atom', 1955 Dec p 84–91 1963 Nov p 66 atomic nucleus, ron nuclear forces, 1972 Oct p 100–108 ing etching, ionizing acks in solids 1969 June p 30–39 gy resources, nuclear feration, Rasmussen 1976 Jan p 21–31 [348] inb, neutron bomb cryogenics crystal 1965 Jan p 38–46 ce, infection, anti-viral and 1963 Oct p 46–50 [166] zyme cleavage, fragment 966 Feb p 30–39 [1033] rotein 'overcoat', particles 1956 June p 42–47 age of universe element inclei stellar evolution 1974 Jan p 69–77 oton, quark, high-energy ening 1967 Dec p 76–91 NA protein synthesis 1953 Feb p 47–57 [28] s DNA gene regulation 1975 Feb p 36 57 113181	coins, counterfeiting, Roman Britain nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, nitrogen fertilizer, soil structure, foo agriculture, food chain 1976 Sept nutrition, see human nutrition, diet, food chain nylon, synthetic fiber, rayon, synthetic macromolecules, cellulose man-made textile fibers 1951 July in filters 1952 A Oak, agronomy, auxins, plant growth, giberellin, function of plan hormone 1957 May p Chalara quercina 1958 A oak blight spreads 1958 A obelisk, a feat of Renaissance engineering 1951 June obesity, human nutrition hunger, appetite, neurophysiology, physiological mechanisms of overeating 1956 Nov p fat metabolism tissue, hormone, fat tissue, diet, role of fat me in human physiology 1959 Dec baby fat, pathological obesity 1973 A object concept, child development, eye-hand coordination infan perceptions, perceptual development 1971 Oct p 30 oboe, musical instruments vibrating air column, clarinet, flute, t English horn saxophone, physics of the wood winds 1960 Oct p observatory, astronomy, scientific instrumentation Tycho Brahe Stjerneborg, science history, 16th century Hven observatory 1961 Feb p obsidian, anthropology, Paleolithic culture, stone tools Andes E	120–130 Ilding p 62–69 d and p 74–86 c, glass, p 37–45 aug p 34 It growth –134 [11] I12–122 Apr p 32 Apr p 32 p 58–59 I08–116 abolism p 70–76 aug p 44 I —38 [539] assoon I44–154 I18–128 I Inga
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross so 'cloudy crystal ball' nuclear submarine, 'Thresher' post mortem nuclear surface, alpha clustering, alpha particles, a elementary particles, nuclear clustering, neut proton nuclear tracks, cosmic radiation, fission-track dat radiation, applications of charged-particle tradiation, fission reactor, atomic-weapon proli report nuclear-waste disposal, energy conservation, energing reactor, fission reactor, atomic-weapon proli report nuclear-waste disposal, energy conservation, energing reactor, fission reactor, atomic-weapon proli report nuclear-waste disposal, energy conservation, and dynamics, liquid, supercooling of growth behavior of supercooled fluids nucleic acid, interferon, virology, virus interferent agent found to act against foreign nucleic acid second to act against foreign nucleic acid core', virus, tobacco mosaic virus prossembly, first nucleotide sequence assembly, first nucleotide sequence nucleons, mass spectroscopy, age of elements formation, mass spectroscopy, radioactive nucleons, mesons particle accelerator, pions prophysics Regge trajectory, high-energy scatticell nucleus chromatin chromosomal protein histories oxidative phosphoylation nucleotide sequence, DNA genetic code base trained to sequence, DNA genetic code base trained to the sequence.	ents, isotopes, beta 5, periodic table, the 1969 Apr p 56–67 ections, 'model atom', 1955 Dec p 84–91 1963 Nov p 66 atomic nucleus, ron nuclear forces, 1972 Oct p 100–108 ing etching, ionizing acks in solids 1969 June p 30–39 gy resources, nuclear feration, Rasmussen 1976 Jan p 21–31 [348] inb, neutron bomb cryogenics crystal 1965 Jan p 38–46 ce, infection, anti-viral and 1963 Oct p 46–50 [166] zyme cleavage, fragment 966 Feb p 30–39 [1033] rotein 'overcoat', particles 1956 June p 42–47 age of universe element inclei stellar evolution 1974 Jan p 69–77 oton, quark, high-energy ening 1967 Dec p 76–91 NA protein synthesis 1953 Feb p 47–57 [28] s DNA gene regulation 1975 Feb p 36 57 113181	coins, counterfeiting, Roman Britain nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, introgen fertilizer, soil structure, foo agriculture, food chain 1976 Sept nutrition, see human nutrition, diet, food chain nylon, synthetic fiber, rayon, synthetic macromolecules, cellulose man-made textule fibers 1951 July in filters 1952 A oak, agronomy, auxins, plant growth, giberellin, function of plan hormone 1957 Apr p 125 oak blight, fungi, forestry, threat to U S oak population Chalara quercina 1950 A oak blight spreads 1958 A obelisk, a feat of Renaissance engineering 1951 June obesity, human nutrition hunger, appetite, neurophysiology, physiological mechanisms of overeating 1956 Nov p fat metabolism tissue, hormone, fat tissue, diet, role of fat me in human physiology 1959 Dec baby fat, pathological obesity 1973 A object concept, child development, eye-hand coordination infan perceptions, perceptual development 1971 Oct p 30 oboe, musical instruments vibrating air column, clarinet, flute, b English horn savophone, physics of the wood winds 1960 Oct p observatory, astronomy, scientific instrumentation Tycho Brahe Stigerneborg, science history, 16th century Hyen observatory 1961 Feb p obsidian, anthropology, Paleolithic culture, stone tools Andes E site, prehistoric man in the Andes	120–130 Ilding p 62–69 d and p 74–86 e. glass, p 37–45 aug p 34 It growth 134 [11] I12–122 Apr p 32 Apr p 32 Apr p 32 p 58–59 I08–116 abolism p 70–76 aug p 44 aug p 34 I18–128 I18–128 Inga
decay, radioactive decay, 'synthetic' elements 'superheavy' elements beyond 103 nuclear structure, atomic nucleus, neutron cross so 'cloudy crystal ball' nuclear submarine, 'Thresher' post mortem nuclear surface, alpha clustering, alpha particles, a elementary particles, nuclear clustering, neut proton nuclear tracks, cosmic radiation, fission-track dat radiation, applications of charged-particle traction, applications of charged-particle traction, applications of charged-particle traction, fission reactor, atomic-weapon proli report nuclear-waste disposal, energy conservation, energy reactor, fission reactor, atomic-weapon proli report nuclear-waste disposal, energy conservation, energy reactor, fission reactor, atomic-weapon proli report nuclear-waste disposal, energy conservation, energy reactor, fluid dynamics, liquid, supercooling of growth behavior of supercooled fluids nucleic acid, interferon, virology, virus interferent agent found to act against foreign nucleic acid sequence. I nucleic acid core', virus, tobacco mosaic virus prodissociation and reconstitution of infective process formation, mass spectroscopy, age of elements formation, mass spectroscopy, radioactive nucleons, mesons particle accelerator, pions prophysics. Regge trajectory, high-energy scattinucleoproteins, heredity, chromosome, DNA, Ricell nucleus chromatin, chromosomal protein	ents, isotopes, beta 5, periodic table, the 1969 Apr p 56–67 ections, 'model atom', 1955 Dec p 84–91 1963 Nov p 66 atomic nucleus, ron nuclear forces, 1972 Oct p 100–108 ing etching, ionizing acks in solids 1969 June p 30–39 gy resources, nuclear feration, Rasmussen 1976 Jan p 21–31 [348] inb, neutron bomb cryogenics crystal 1965 Jan p 38–46 ce, infection, anti-viral and 1963 Oct p 46–50 [166] zyme cleavage, fragment 966 Feb p 30–39 [1033] rotein 'overcoat', particles 1956 June p 42–47 age of universe element inclei stellar evolution 1974 Jan p 69–77 oton, quark, high-energy ening 1967 Dec p 76–91 NA protein synthesis 1953 Feb p 47–57 [28] s DNA gene regulation 1975 Feb p 36 57 113181	coins, counterfeiting, Roman Britain nuraghi, Mycenaean civilization, castle, Classical archeology, bu construction, 1000 BC proto-castles in Sardinia 1959 Dec nutrient cycle, energy cycle, nitrogen fertilizer, soil structure, foo agriculture, food chain 1976 Sept nutrition, see human nutrition, diet, food chain nylon, synthetic fiber, rayon, synthetic macromolecules, cellulose man-made textile fibers 1951 July in filters 1952 A Oak, agronomy, auxins, plant growth, giberellin, function of plan hormone 1957 May p Chalara quercina 1958 A oak blight spreads 1958 A obelisk, a feat of Renaissance engineering 1951 June obesity, human nutrition hunger, appetite, neurophysiology, physiological mechanisms of overeating 1956 Nov p fat metabolism tissue, hormone, fat tissue, diet, role of fat me in human physiology 1959 Dec baby fat, pathological obesity 1973 A object concept, child development, eye-hand coordination infan perceptions, perceptual development 1971 Oct p 30 oboe, musical instruments vibrating air column, clarinet, flute, t English horn saxophone, physics of the wood winds 1960 Oct p observatory, astronomy, scientific instrumentation Tycho Brahe Stjerneborg, science history, 16th century Hven observatory 1961 Feb p obsidian, anthropology, Paleolithic culture, stone tools Andes E	120–130 Ilding p 62–69 d and p 74–86 c, glass, p 37–45 aug p 34 It growth 112–122 apr p 32 p 58–59 I08–116 abolism p 70–76 aug p 44 t -38 [539] assoon I44–154 Illinga Ill6–128 Illinga Ill6–128 ttens

	Forth great manuscia &
obstetrical labor, uterine muscle, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar. p. 52-5	Earth crust, mountain formation, isostasis, granitization, ocean basins,
occuration patterns, radio source, duasars, radio astronomy, agouste	accontance of continuent 1 is
fixing of radio-source position, occulation by moon	acceptance of continental drift) 1950 May p. 32-41
1066 Juno n. 20. 4	sonar, seismology, sedimentary cores, Albatross voyage, isotope dating
occupational cancer, cancer, cancer epidemiology, carcinogenesis, cancer	TYNI AND IS A CALL
prevention, increased incidence of cancer sought in environmental	by determined, Solicited, Lattin Cole, Lattin indiana,
and denavioral factors 1940 for n 11 1	geochronology, geology 1900-1950 1950 Sept. p. 36-39
occupational neatth, epidemiology, morbidity, mortality rates economic	distribution, scambatta, fathogram, soliat, con-
development, income status, 'social medicine', environment, materia	sounding, the Pacific floor 1952 Apr. p. 19-33
well-being, behavior of disease 1949 Apr. p. 11-13	The state of the s
berylliosis, phosphorus, fluorescent light, chelation, high technology	
disease 1958 Aug. p. 27–33	Pacific Ocean, earth crust, Acapulco trench, Tonga Trench, Cedros
noise-induced hearing loss, noise pollution, auditory impairment,	
industrial hygiene, public health,	submarine canyons, turbidity currents, continental shelf, submanne
loss, U.S. noise pollution legislation	avalanches and topography of ocean floor 1956 Aug. p. 36-41
	bathymetry, sonar, gravimetry, continental shelf, sedimentary cores,
and the proof	
occupational injuries, of housewives 1951 Mar. p. 30 ocean, beaches, sand dune, sand bar, berm, surf, rip channels,	
	glaciation, sea level, continental uplift, sea level variations
conservation of beaches 1960 Aug. p. 80-94 [845] ocean floor, sea power, sea water, marine resources, introduction to	
single-topic issue on the ocean 1969 Sept. p. 54–65 [879]	gravity, mid-ocean ridge, oceanography, African rifts, discovery of
single-topic issue on the ocean 1969 Sept. p. 54-65 [879] continental shelf, glaciation, shelf sediments, marine geology	
	mineral resources, manganese nodules, mining industry, minerals on
1969 Sept. p. 106~122 [882]	the ocean floor 1960 Dec. p. 64-72
sea, food chain, plankton, marine ecology, fish, marine life, life in the	geomagnetism, magnetometer, magnetic reversals, patterned magnetic
pollution, mineral resources, sea water, wetlands, ocean floor, physical resources of the ocean 1969 Sept. p. 166-176 [885]	East Pacific Rise, subterranean heat flow, trench faults, earthquakes.
	convection currents 1961 Dec. p. 52-61
food chain, fisheries, food supply, food resources of the ocean	seismology, Vema, explosion-generated sound waves map ocean floor
1969 Sept. p. 178-194 [886]	1962 May p. 116-126
marine technology, drilling platforms, supertankers, submersibles,	sonar, echo-sounding, plankton, deep-sea scattering layer, photic zone, 'false bottom' 1962 July p. 44-50
containerization, technology and the ocean	
1969 Sept. p. 198~217 [887]	micropaleontology, foraminifera, climate history recorded in ocean
water cycle, transpiration, evaporation, runoff, agricultural system,	sediments 1962 July p. 96–106 [856]
precipitation, biosphere, photosynthesis 1970 Sept. p. 98-108 [1191]	continental drift, remanent magnetism, plate tectonics, island arcs.
origins, from water of crystallization? 1951 Jan. p. 28	Wegener hypothesis re-stated with new evidence, age of rocks 1963 Apr. p. 86-100 [868]
ocean abyss, abyssal life, bioluminescence, marine biology, fauna at 4000	1903 Apr. p. 60-100 feet
meters 1957 Nov. p. 50–57	ocean, sea power, sea water, marine resources, introduction to single- topic issue on the ocean 1969 Sept. p. 54-65 [879]
ocean-atmosphere interface, trade wind clouds, climate, atmospheric	topic issue on the ocean 1969 Sept. p. 34-03 [67] sea-floor spreading, lava, dikes, magnetic bands, mid-ocean ridge, the
circulation, cumulus clouds 1953 Nov. p. 31-35 ocean basins, Earth crust, mountain formation, isostasis, granitization,	deep-ocean floor 1969 Sept. p. 126-142 [883]
ocean pasms, Earth Crust, mountain formation, isostasis, grantization,	
	deep-ocean floor 1969 Sept. p. 120-142 [609]
ocean floor, tectonic processes, comprehensive review of	pollution ocean mineral resources sea water wetlands, physical
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift)	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166-176 [885]
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift) 1950 May p. 32-41	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166-176 [885] brine, Red Sea hot brines, salinity, percolation, sea-floor spreading 1970 Apr. p. 32-42
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift) 1950 May p. 32-41 ocean circulation, Coriolis effect, atmospheric circulation, relativity of	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166-176 [885] brine, Red Sea hot brines, salinity, percolation, sea-floor spreading 1970 Apr. p. 32-42 submarine afted ridge 1957 Mar. p. 66
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift) 1950 May p. 32-41 ocean circulation, Coriolis effect, atmospheric circulation, relativity of motion 1952 May p. 72-78 [839]	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166-176 [885] brine, Red Sea hot brines, salinity, percolation, sea-floor spreading 1970 Apr. p. 32-42 submarine rifted ridge 1957 Mar. p. 66 layer of volcanic ash on Pacific floor 1959 May p. 74
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift) 1950 May p. 32-41 ocean circulation, Coriolis effect, atmospheric circulation, relativity of motion 1952 May p. 72-78 [839] Atlantic Ocean, Gulf Stream, salinity, oxygen level, ocean temperature,	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166-176 [885] brine, Red Sea hot brines, salinity, percolation, sea-floor spreading 1970 Apr. p. 32-42 submarine rifted ridge 1957 Mar. p. 66 layer of volcanic ash on Pacific floor 1959 May p. 74
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift) 1950 May p. 32-41 ocean circulation, Coriolis effect, atmospheric circulation, relativity of motion 1952 May p. 72-78 [839] Atlantic Ocean, Gulf Stream, salinity, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30-35 [810]	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166-176 [885] brine, Red Sea hot brines, salinity, percolation, sea-floor spreading 1970 Apr. p. 32-42 submarine rifted ridge 1957 Mar. p. 66 layer of volcanic ash on Pacific floor 1959 May p. 74 mid-ocean ridges 1960 May p. 92
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift) 1950 May p. 32-41 ocean circulation, Coriolis effect, atmospheric circulation, relativity of motion Atlantic Ocean, Gulf Stream, salinity, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30-35 [810] Earth, gyres, wind, upwelling, the circulation of the oceans	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166-176 [885] brine, Red Sea hot brines, salinity, percolation, sea-floor spreading 1970 Apr. p. 32-42 submarine rifted ridge 1957 Mar. p. 66 layer of volcanic ash on Pacific floor 1959 May p. 74 mid-ocean ridges 1960 May p. 92 seismography, microseism tracking for weather forecasting 1960 Oct. p. 95
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift) 1950 May p. 32-41 ocean circulation, Coriolis effect, atmospheric circulation, relativity of motion 1952 May p. 72-78 [839] Atlantic Ocean, Gulf Stream, salinity, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30-35 [810] Earth, gyres, wind, upwelling, the circulation of the oceans 1955 Sept. p. 96-104	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166-176 [885] brine, Red Sea hot brines, salinity, percolation, sea-floor spreading 1970 Apr. p. 32-42 submarine rifted ridge 1957 Mar. p. 66 layer of volcanic ash on Pacific floor 1959 May p. 74 mid-ocean ridges 1960 May p. 92 seismography, microseism tracking for weather forecasting 1960 Oct. p. 95 anomalous Atlanta fault 1963 Nov. p. 69
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift) 1950 May p. 32-41 ocean circulation, Coriolis effect, atmospheric circulation, relativity of motion 1952 May p. 72-78 [839] Atlantic Ocean, Gulf Stream, salinity, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30-35 [810] Earth, gyres, wind, upwelling, the circulation of the oceans 1955 Sept. p. 96-104	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166-176 [885] brine, Red Sea hot brines, salinity, percolation, sea-floor spreading 1970 Apr. p. 32-42 submarine rifted ridge 1957 Mar. p. 66 layer of volcanic ash on Pacific floor 1959 May p. 74 mid-ocean ridges 1960 May p. 92 seismography, microseism tracking for weather forecasting 1960 Oct. p. 95 anomalous Atlantic fault 1963 Nov. p. 69 oasis at rift zone 1977 Nov. p. 74
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift) 1950 May p. 32-41 ocean circulation, Coriolis effect, atmospheric circulation, relativity of motion 1952 May p. 72-78 [839] Atlantic Ocean, Gulf Stream, salinity, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30-35 [810] Earth, gyres, wind, upwelling, the circulation of the oceans 1955 Sept. p. 96-104 Sargasso Sea, sea weed, Sargassum weed in oceanic desert 1956 Jan. p. 98-104 climate, abyss, currents in the abyss	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166-176 [885] brine, Red Sea hot brines, salinity, percolation, sea-floor spreading 1970 Apr. p. 32-42 submarine rifted ridge 1957 Mar. p. 66 layer of volcanic ash on Pacific floor 1959 May p. 74 mid-ocean ridges 1960 May p. 92 seismography, microseism tracking for weather forecasting 1960 Oct. p. 95 anomalous Atlantic fault 1963 Nov. p. 69 oasis at rift zone 1977 Nov. p. 74
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift) 1950 May p. 32-41 ocean circulation, Coriolis effect, atmospheric circulation, relativity of motion 1952 May p. 72-78 [839] Atlantic Ocean, Gulf Stream, salinity, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30-35 [810] Earth, gyres, wind, upwelling, the circulation of the oceans 1955 Sept. p. 96-104 Sargasso Sea, sea weed, Sargassum weed in oceanic desert 1956 Jan. p. 98-104 climate, abyss, currents in the abyss 1958 July p. 85-90 Cromwell Current, subsurface Equator stream	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166-176 [885] brine, Red Sea hot brines, salinity, percolation, sea-floor spreading 1970 Apr. p. 32-42 submarine rifted ridge 1957 Mar. p. 66 layer of volcanic ash on Pacific floor 1959 May p. 74 mid-ocean ridges 1960 May p. 92 seismography, microseism tracking for weather forecasting 1960 Oct. p. 95 anomalous Atlantic fault 1963 Nov. p. 69 oasis at rift zone 1977 Nov. p. 74 ocean-floor animals, marine life, ocean floor photography
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift) 1950 May p. 32-41 ocean circulation, Coriolis effect, atmospheric circulation, relativity of motion 1952 May p. 72-78 [839] Atlantic Ocean, Gulf Stream, salinity, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30-35 [810] Earth, gyres, wind, upwelling, the circulation of the oceans 1955 Sept. p. 96-104 Sargasso Sea, sea weed, Sargassum weed in oceanic desert 1956 Jan. p. 98-104 climate, abyss, currents in the abyss 1958 July p. 85-90 Cromwell Current, subsurface Equator stream 1961 Apr. p. 105-116 Arctic Ocean, telemetry, meteorology, Northeast Passage, ice-floe	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166-176 [885] brine, Red Sea hot brines, salinity, percolation, sea-floor spreading 1970 Apr. p. 32-42 submarine rifted ridge 1957 Mar. p. 66 layer of volcanic ash on Pacific floor 1959 May p. 74 mid-ocean ridges 1960 May p. 92 seismography, microseism tracking for weather forecasting 1960 Oct. p. 95 anomalous Atlantic fault 1963 Nov. p. 69 oasis at rift zone 1977 Nov. p. 74 ocean-floor animals, marine life, ocean floor photography 1975 Oct. p. 84-91 ocean floor life, photography underwater 1952 July p. 68-69
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift) 1950 May p. 32-41 ocean circulation, Coriolis effect, atmospheric circulation, relativity of motion 1952 May p. 72-78 [839] Atlantic Ocean, Gulf Stream, salinity, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30-35 [810] Earth, gyres, wind, upwelling, the circulation of the oceans 1955 Sept. p. 96-104 Sargasso Sea, sea weed, Sargassum weed in oceanic desert 1956 Jan. p. 98-104 climate, abyss, currents in the abyss 1958 July p. 85-90 Cromwell Current, subsurface Equator stream 1961 Apr. p. 105-116 Arctic Ocean, telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, marine biology, Soviet Arctic research	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166-176 [885] brine, Red Sea hot brines, salinity, percolation, sea-floor spreading 1970 Apr. p. 32-42 submarine rifted ridge 1957 Mar. p. 66 layer of volcanic ash on Pacific floor 1959 May p. 74 mid-ocean ridges 1960 May p. 92 seismography, microseism tracking for weather forecasting 1960 Oct. p. 95 anomalous Atlantic fault 1963 Nov. p. 69 oasis at rift zone 1977 Nov. p. 74 ocean-floor animals, marine life, ocean floor photography 1975 Oct. p. 84-91 ocean floor life, photography underwater 1952 July p. 68-69 high-pressure samples
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift) 1950 May p. 32-41 ocean circulation, Coriolis effect, atmospheric circulation, relativity of motion 1952 May p. 72-78 [839] Atlantic Ocean, Gulf Stream, salinity, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30-35 [810] Earth, gyres, wind, upwelling, the circulation of the oceans 1955 Sept. p. 96-104 Sargasso Sea, sea weed, Sargassum weed in oceanic desert 1956 Jan. p. 98-104 climate, abyss, currents in the abyss 1958 July p. 85-90 Cromwell Current, subsurface Equator stream 1961 Apr. p. 105-116 Arctic Ocean, telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, marine biology, Soviet Arctic research 1961 May p. 88-102	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166–176 [885] brine, Red Sea hot brines, salinity, percolation, sea-floor spreading 1970 Apr. p. 32–42 submarine rifted ridge 1957 Mar. p. 66 layer of volcanic ash on Pacific floor 1959 May p. 74 mid-ocean ridges 1960 May p. 92 seismography, microseism tracking for weather forecasting 1960 Oct. p. 95 anomalous Atlantic fault 1963 Nov. p. 69 oasis at rift zone 1977 Nov. p. 74 ocean-floor animals, marine life, ocean floor photography 1975 Oct. p. 84–91 ocean floor life, photography underwater 1952 July p. 68–69 high-pressure samples 1952 July p. 38 abyssal monsters, plans for trolling 1954 Feb. p. 50
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift) 1950 May p. 32-41 ocean circulation, Coriolis effect, atmospheric circulation, relativity of motion 1952 May p. 72-78 [839] Atlantic Ocean, Gulf Stream, salinity, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30-35 [810] Earth, gyres, wind, upwelling, the circulation of the oceans 1955 Sept. p. 96-104 Sargasso Sea, sea weed, Sargassum weed in oceanic desert 1956 Jan. p. 98-104 climate, abyss, currents in the abyss 1958 July p. 85-90 Cromwell Current, subsurface Equator stream 1961 Apr. p. 105-116 Arctic Ocean, telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, marine biology, Soviet Arctic research 1961 May p. 88-102 Antarctica, Antarctic convergence, Antarctic Ocean, physical	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166–176 [885] brine, Red Sea hot brines, salinity, percolation, sea-floor spreading 1970 Apr. p. 32–42 submarine rifted ridge 1957 Mar. p. 66 layer of volcanic ash on Pacific floor 1959 May p. 74 mid-ocean ridges 1960 May p. 92 seismography, microseism tracking for weather forecasting 1960 Oct. p. 95 anomalous Atlantic fault 1963 Nov. p. 69 oasis at rift zone 1977 Nov. p. 74 ocean-floor animals, marine life, ocean floor photography 1975 Oct. p. 84–91 ocean-floor life, photography underwater 1952 July p. 68–69 high-pressure samples 1952 July p. 35 acean-floor minerals, marganese podules there for the dredging
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift) 1950 May p. 32-41 ocean circulation, Coriolis effect, atmospheric circulation, relativity of motion 1952 May p. 72-78 [839] Atlantic Ocean, Gulf Stream, salinity, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30-35 [810] Earth, gyres, wind, upwelling, the circulation of the oceans 1955 Sept. p. 96-104 Sargasso Sea, sea weed, Sargassum weed in oceanic desert 1956 Jan. p. 98-104 climate, abyss, currents in the abyss 1958 July p. 85-90 Cromwell Current, subsurface Equator stream 1961 Apr. p. 105-116 Arctic Ocean, telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, marine biology, Soviet Arctic research 1961 May p. 88-102 Antarctica, Antarctic convergence, Antarctic Ocean, physical oceanography of Antarctic 1962 Sept. p. 113-128 [860]	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166–176 [885] brine, Red Sea hot brines, salinity, percolation, sea-floor spreading 1970 Apr. p. 32–42 submarine rifted ridge 1957 Mar. p. 66 layer of volcanic ash on Pacific floor 1959 May p. 74 mid-ocean ridges 1960 May p. 92 seismography, microseism tracking for weather forecasting 1960 Oct. p. 95 anomalous Atlantic fault 1963 Nov. p. 69 oasis at rift zone 1977 Nov. p. 74 ocean-floor animals, marine life, ocean floor photography 1975 Oct. p. 84–91 ocean floor life, photography underwater 1952 July p. 68–69 high-pressure samples 1952 July p. 38 abyssal monsters, plans for trolling 1954 Feb. p. 50 ocean floor minerals, manganese nodules there for the dredging 1958 Oct. p. 58
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift) 1950 May p. 32-41 ocean circulation, Coriolis effect, atmospheric circulation, relativity of motion 1952 May p. 72-78 [839] Atlantic Ocean, Gulf Stream, salinity, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30-35 [810] Earth, gyres, wind, upwelling, the circulation of the oceans 1955 Sept. p. 96-104 Sargasso Sea, sea weed, Sargassum weed in oceanic desert 1956 Jan. p. 98-104 climate, abyss, currents in the abyss 1958 July p. 85-90 Cromwell Current, subsurface Equator stream Arctic Ocean, telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, marine biology, Soviet Arctic research 1961 May p. 88-102 Antarctica, Antarctic convergence, Antarctic Ocean, physical oceanography of Antarctic 1962 Sept. p. 113-128 [860] 1969 Sept. p. 76-86	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166–176 [885] brine, Red Sea hot brines, salinity, percolation, sea-floor spreading 1970 Apr. p. 32–42 1970 Apr. p. 32–43 1970 Apr. p. 32
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift) 1950 May p. 32-41 ocean circulation, Coriolis effect, atmospheric circulation, relativity of motion 1952 May p. 72-78 [839] Atlantic Ocean, Gulf Stream, salinity, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30-35 [810] Earth, gyres, wind, upwelling, the circulation of the oceans 1955 Sept. p. 96-104 Sargasso Sea, sea weed, Sargassum weed in oceanic desert 1956 Jan. p. 98-104 climate, abyss, currents in the abyss 1958 July p. 85-90 Cromwell Current, subsurface Equator stream 1961 Apr. p. 105-116 Arctic Ocean, telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, marine biology, Soviet Arctic research 1961 May p. 88-102 Antarctica, Antarctic convergence, Antarctic Ocean, physical oceanography of Antarctic 1962 Sept. p. 113-128 [860] atmosphere, wind, climate, Coriolis effect 1969 Sept. p. 76-86	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166–176 [885] brine, Red Sea hot brines, salinity, percolation, sea-floor spreading 1970 Apr. p. 32–42 submarine rifted ridge 1957 Mar. p. 66 layer of volcanic ash on Pacific floor 1959 May p. 74 mid-ocean ridges 1960 May p. 92 seismography, microseism tracking for weather forecasting 1960 Oct. p. 95 anomalous Atlantic fault 1963 Nov. p. 69 oasis at rift zone 1977 Nov. p. 74 ocean floor animals, marine life, ocean floor photography 1975 Oct. p. 84–91 ocean floor life, photography underwater 1952 July p. 68–69 high-pressure samples 1952 July p. 68–69 high-pressure samples 1952 July p. 50 ocean floor minerals, manganese nodules there for the dredging 1958 Oct. p. 58 ocean foam, meteorology, condensation nuclei, salt particles, cloud physics, rain, seasalt and rain 1957 Oct. p. 42–47
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift) 1950 May p. 32-41 ocean circulation, Coriolis effect, atmospheric circulation, relativity of motion 1952 May p. 72-78 [839] Atlantic Ocean, Gulf Stream, salinity, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30-35 [810] Earth, gyres, wind, upwelling, the circulation of the oceans 1955 Sept. p. 96-104 Sargasso Sea, sea weed, Sargassum weed in oceanic desert 1956 Jan. p. 98-104 climate, abyss, currents in the abyss 1958 July p. 85-90 Cromwell Current, subsurface Equator stream 1961 Apr. p. 105-116 Arctic Ocean, telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, marine biology, Soviet Arctic research 1961 May p. 88-102 Antarctica, Antarctic convergence, Antarctic Ocean, physical oceanography of Antarctic 1962 Sept. p. 113-128 [860] atmosphere, wind, climate, Coriolis effect 1969 Sept. p. 76-86 Coriolis effect, wind effect, currents, laboratory analogues	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166–176 [885] brine, Red Sea hot brines, salinity, percolation, sea-floor spreading 1970 Apr. p. 32–42 1970 May p. 74 1970 May p. 75 1970 May p. 75 1970 May p. 76 1970 May p. 76 1970 May p. 77 1970 May p. 78 1970 May p. 79
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift) 1950 May p. 32-41 ocean circulation, Coriolis effect, atmospheric circulation, relativity of motion 1952 May p. 72-78 [839] Atlantic Ocean, Gulf Stream, salinity, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30-35 [810] Earth, gyres, wind, upwelling, the circulation of the oceans 1955 Sept. p. 96-104 Sargasso Sea, sea weed, Sargassum weed in oceanic desert 1956 Jan. p. 98-104 climate, abyss, currents in the abyss 1958 July p. 85-90 Cromwell Current, subsurface Equator stream 1961 Apr. p. 105-116 Arctic Ocean, telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, marine biology, Soviet Arctic research 1961 May p. 88-102 Antarctica, Antarctic convergence, Antarctic Ocean, physical oceanography of Antarctic 1962 Sept. p. 113-128 [860] atmosphere, wind, climate, Coriolis effect 1970 Jan. p. 114-121 [390]	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166–176 [885] brine, Red Sea hot brines, salinity, percolation, sea-floor spreading 1970 Apr. p. 32–42 1970 Apr. p. 32–42 1971 Mar. p. 66 1975 Mar. p. 66 1975 Mar. p. 66 1975 Mar. p. 66 1975 Mar. p. 69 1975 Mar. p. 69 1960 May p. 92 1960 May p. 92 1960 May p. 92 1960 May p. 92 1960 Oct. p. 95 1960 Oct. p. 95 1960 Oct. p. 95 1977 Nov. p. 69 1977 Nov. p. 69 1977 Nov. p. 74 1975 Oct. p. 84–91 1975 Oct. p. 95 1975 Mar. p. 69 1975 Mar. p. 69 1975 Oct. p. 84–91 1975 Oct. p. 95 1975 Oct. p. 95 1975 Oct. p. 95 1975 Oct. p. 95 1975 Oct. p. 97 1
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift) 1950 May p. 32-41 ocean circulation, Coriolis effect, atmospheric circulation, relativity of motion 1952 May p. 72-78 [839] Atlantic Ocean, Gulf Stream, salinity, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30-35 [810] Earth, gyres, wind, upwelling, the circulation of the oceans 1955 Sept. p. 96-104 Sargasso Sea, sea weed, Sargassum weed in oceanic desert 1956 Jan. p. 98-104 climate, abyss, currents in the abyss 1958 July p. 85-90 Cromwell Current, subsurface Equator stream 1961 Apr. p. 105-116 Arctic Ocean, telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, marine biology, Soviet Arctic research 1961 May p. 88-102 Antarctica, Antarctic convergence, Antarctic Ocean, physical oceanography of Antarctic 1962 Sept. p. 113-128 [860] atmosphere, wind, climate, Coriolis effect 1969 Sept. p. 76-86 Coriolis effect, wind effect, currents, laboratory analogues 1970 Jan. p. 114-121 [390] wind, solar radiation, energy cycle, biosphere, albedo, atmospheric circulation, climate, terrestrial radiation, carbon dioxide 'window', and the correction of th	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166–176 [885] brine, Red Sea hot brines, salinity, percolation, sea-floor spreading 1970 Apr. p. 32–42 submarine rifted ridge 1957 Mar. p. 66 layer of volcanic ash on Pacific floor 1959 May p. 74 mid-ocean ridges 1960 May p. 92 seismography, microseism tracking for weather forecasting 1960 Oct. p. 95 anomalous Atlantic fault 1963 Nov. p. 69 oasis at rift zone 1977 Nov. p. 74 ocean floor animals, marine life, ocean floor photography 1975 Oct. p. 84–91 ocean floor life, photography underwater 1952 July p. 68–69 high-pressure samples 1952 July p. 68–69 high-pressure samples 1952 July p. 50 ocean floor minerals, manganese nodules there for the dredging 1958 Oct. p. 59 ocean floam, meteorology, condensation nuclei, salt particles, cloud physics, rain, seasalt and rain 1957 Oct. p. 42–47 bubbles concentrate food for neuston 1964 Nov. p. 69 ocean microstructure, energy exchange, ocean circulation, sea-water salinity, oceanic stirring, sea-water temperature
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift) 1950 May p. 32-41 ocean circulation, Coriolis effect, atmospheric circulation, relativity of motion 1952 May p. 72-78 [839] Atlantic Ocean, Gulf Stream, salinity, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30-35 [810] Earth, gyres, wind, upwelling, the circulation of the oceans 1955 Sept. p. 96-104 Sargasso Sea, sea weed, Sargassum weed in oceanic desert 1956 Jan. p. 98-104 climate, abyss, currents in the abyss 1958 July p. 85-90 Cromwell Current, subsurface Equator stream 1961 Apr. p. 105-116 Arctic Ocean, telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, marine biology, Soviet Arctic research 1961 May p. 88-102 Antarctica, Antarctic convergence, Antarctic Ocean, physical oceanography of Antarctic 1962 Sept. p. 113-128 [860] atmosphere, wind, climate, Coriolis effect 1969 Sept. p. 76-86 Coriolis effect, wind effect, currents, laboratory analogues 1970 Jan. p. 114-121 [390] wind, solar radiation, energy cycle, biosphere, albedo, atmospheric circulation, climate, terrestrial radiation, carbon dioxide 'window', 1970 Sept. p. 54-63 [1189]	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166–176 [885] brine, Red Sea hot brines, salinity, percolation, sea-floor spreading 1970 Apr. p. 32–42 1970 Apr. p. 32–42 1970 Apr. p. 32–42 1971 Mar. p. 66 1975 Mar. p. 66 1975 Mar. p. 66 1975 Mar. p. 66 1975 Mar. p. 69 1970 May p. 74 1960 May p. 92 1960 May p. 95 1960 May p. 95 1960 May p. 95 1960 May p. 96 1977 Nov. p. 69 1977 Nov. p. 74 1975 Oct. p. 84–91 1975 Inc. photography 1975 Oct. p. 84–91 1975 Inc. photography 1975 Oct. p. 84–91 1975 Inc. photography 1975 Oct. p. 84–91 1975 Oct. p. 84–91 1975 Oct. p. 84–91 1975 Oct. p. 84–91 1975 Oct. p. 95 1975 Inc. photography 1975 Oct. p. 95 1975 Oct. p. 975 Oct.
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift) 1950 May p. 32-41 ocean circulation, Coriolis effect, atmospheric circulation, relativity of motion 1952 May p. 72-78 [839] Atlantic Ocean, Gulf Stream, salinity, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30-35 [810] Earth, gyres, wind, upwelling, the circulation of the oceans 1955 Sept. p. 96-104 Sargasso Sea, sea weed, Sargassum weed in oceanic desert 1956 Jan. p. 98-104 climate, abyss, currents in the abyss 1958 July p. 85-90 Cromwell Current, subsurface Equator stream 1961 Apr. p. 105-116 Arctic Ocean, telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, marine biology, Soviet Arctic research 1961 May p. 88-102 Antarctica, Antarctic convergence, Antarctic Ocean, physical oceanography of Antarctic 1962 Sept. p. 113-128 [860] atmosphere, wind, climate, Coriolis effect 1969 Sept. p. 76-86 Coriolis effect, wind effect, currents, laboratory analogues 1970 Jan. p. 114-121 [390] wind, solar radiation, energy cycle, biosphere, albedo, atmospheric circulation, climate, terrestrial radiation, carbon dioxide window', Earth energy cycle 1970 Sept. p. 54-63 [1189]	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166–176 [885] brine, Red Sea hot brines, salinity, percolation, sea-floor spreading 1970 Apr. p. 32–42 1970 Apr. p. 32–42 1970 Apr. p. 32–42 1971 Mar. p. 66 1975 Mar. p. 66 1975 Mar. p. 66 1975 Mar. p. 66 1975 Mar. p. 69 1975 Mar. p. 69 1960 May p. 92 1960 May p. 95 1960 May p. 95 1960 May p. 95 1960 May p. 96 1977 Nov. p. 69 1977 Nov. p. 74 1975 Oct. p. 84–91 1975 Oct. p. 95 1975 Feb. p. 50 1975 Poct. p. 1975 Oct. p. 1975 O
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift) 1950 May p. 32-41 ocean circulation, Coriolis effect, atmospheric circulation, relativity of motion 1952 May p. 72-78 [839] Atlantic Ocean, Gulf Stream, salinity, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30-35 [810] Earth, gyres, wind, upwelling, the circulation of the oceans 1955 Sept. p. 96-104 Sargasso Sea, sea weed, Sargassum weed in oceanic desert 1956 Jan. p. 98-104 climate, abyss, currents in the abyss 1958 July p. 85-90 Cromwell Current, subsurface Equator stream 1961 Apr. p. 105-116 Arctic Ocean, telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, marine biology, Soviet Arctic research 1961 May p. 88-102 Antarctica, Antarctic convergence, Antarctic Ocean, physical oceanography of Antarctic 1962 Sept. p. 113-128 [860] atmosphere, wind, climate, Coriolis effect 1969 Sept. p. 76-86 Coriolis effect, wind effect, currents, laboratory analogues 1970 Jan. p. 114-121 [390] wind, solar radiation, energy cycle, biosphere, albedo, atmospheric circulation, climate, terrestrial radiation, carbon dioxide 'window', Earth energy cycle energy exchange, ocean microstructure, sea-water salinity, oceanic 1973 Feb. p. 64-77 [905]	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166–176 [885] brine, Red Sea hot brines, salinity, percolation, sea-floor spreading 1970 Apr. p. 32–42 submarine rifted ridge 1957 Mar. p. 66 layer of volcanic ash on Pacific floor 1959 May p. 74 mid-ocean ridges 1960 May p. 92 seismography, microseism tracking for weather forecasting 1960 Oct. p. 95 anomalous Atlantic fault 1963 Nov. p. 69 oasis at rift zone 1977 Nov. p. 74 ocean-floor animals, marine life, ocean floor photography 1975 Oct. p. 84–91 ocean floor life, photography underwater 1952 July p. 68–69 high-pressure samples 1952 July p. 38 abyssal monsters, plans for trolling 1954 Feb. p. 50 ocean floor minerals, manganese nodules there for the dredging ocean floor minerals, manganese nodules there for the dredging 1958 Oct p. 58 ocean floor minerals and rain 1957 Oct. p. 42–47 bubbles concentrate food for neuston 1964 Nov. p. 69 ocean microstructure, energy exchange, ocean circulation, sea-water salinity, oceanic stirring, sea-water temperature 1973 Feb. p. 64–77 [905] ocean pollution, pollution control, water quality, waste disposal in oceans 1974 Aug. p. 16–25 ocean ridges, sea-floor spreading, continental dnft, magnetic reversity.
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift) 1950 May p. 32-41 ocean circulation, Coriolis effect, atmospheric circulation, relativity of motion 1952 May p. 72-78 [839] Atlantic Ocean, Gulf Stream, salinity, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30-35 [810] Earth, gyres, wind, upwelling, the circulation of the oceans 1955 Sept. p. 96-104 Sargasso Sea, sea weed, Sargassum weed in oceanic desert 1956 Jan. p. 98-104 climate, abyss, currents in the abyss 1958 July p. 85-90 Cromwell Current, subsurface Equator stream 1961 Apr. p. 105-116 Arctic Ocean, telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, marine biology, Soviet Arctic research 1961 May p. 88-102 Antarctica, Antarctic convergence, Antarctic Ocean, physical oceanography of Antarctic 1962 Sept. p. 113-128 [860] atmosphere, wind, climate, Coriolis effect 1969 Sept. p. 76-86 Coriolis effect, wind effect, currents, laboratory analogues 1970 Jan. p. 114-121 [390] wind, solar radiation, energy cycle, biosphere, albedo, atmospheric circulation, climate, terrestrial radiation, carbon dioxide 'window', Earth energy cycle 1970 Sept. p. 54-63 [1189] energy exchange, ocean microstructure, sea-water salinity, oceanic stirring, sea-water temperature 1973 Feb. p. 64-77 [905] east-flowing Equatorial current in Pacific 1958 Aug. p. 49 east-flowing Equatorial current in Pacific plate, plate	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166–176 [885] brine, Red Sea hot brines, salinity, percolation, sea-floor spreading 1970 Apr. p. 32–42 1973 Mar. p. 66 1975 Mar. p. 69 1976 May p. 74 1960 May p. 92 1960 May p. 92 1960 May p. 92 1960 Oct. p. 95 1960 Oct. p. 96 1977 Nov. p. 69 1977 Nov. p. 74 1975 Oct. p. 84–91 1975 Oct. p. 84–91 1975 Oct. p. 84–91 1975 Oct. p. 84–91 1975 Oct. p. 95 1975 Oc
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift) 1950 May p. 32-41 ocean circulation, Coriolis effect, atmospheric circulation, relativity of motion 1952 May p. 72-78 [839] Atlantic Ocean, Gulf Stream, salinity, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30-35 [810] Earth, gyres, wind, upwelling, the circulation of the oceans 1955 Sept. p. 96-104 Sargasso Sea, sea weed, Sargassum weed in oceanic desert 1956 Jan. p. 98-104 climate, abyss, currents in the abyss 1958 July p. 85-90 Cromwell Current, subsurface Equator stream 1961 Apr. p. 105-116 Arctic Ocean, telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, marine biology, Soviet Arctic research 1961 May p. 88-102 Antarctica, Antarctic convergence, Antarctic Ocean, physical oceanography of Antarctic 1962 Sept. p. 113-128 [860] atmosphere, wind, climate, Coriolis effect 1969 Sept. p. 76-86 Coriolis effect, wind effect, currents, laboratory analogues 1970 Jan. p. 114-121 [390] wind, solar radiation, energy cycle, biosphere, albedo, atmospheric circulation, climate, terrestrial radiation, carbon dioxide 'window', Earth energy cycle 1970 Sept. p. 54-63 [1189] energy exchange, ocean microstructure, sea-water salinity, oceanic stirring, sea-water temperature 1973 Feb. p. 64-77 [905] east-flowing Equatorial current in Pacific ocean evolution, Earth crust, deep-sea drilling, Pacific plate, plate ocean evolution, Earth crust, deep-sea drilling, Pacific plate, plate	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166–176 [885] brine, Red Sea hot brines, salinity, percolation, sea-floor spreading 1970 Apr. p. 32–42 1957 Mar. p. 66 1957 Mar. p. 66 1959 May p. 74 1959 May p. 74 1960 May p. 92 1960 May p. 92 1960 May p. 92 1960 May p. 92 1960 Oct. p. 95 1960 Oct. p. 95 1960 Oct. p. 95 1960 Oct. p. 95 1960 Oct. p. 96 1977 Nov. p. 74 1960 Oct. p. 97 1975 Oct. p. 94 1975 Oct. p. 94 1975 Oct. p. 94 1975 Oct. p. 95 1977 Nov. p. 74 1975 Oct. p. 95 1975
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift) 1950 May p. 32-41 ocean circulation, Coriolis effect, atmospheric circulation, relativity of motion 1952 May p. 72-78 [839] Atlantic Ocean, Gulf Stream, salinity, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30-35 [810] Earth, gyres, wind, upwelling, the circulation of the oceans 1955 Sept. p. 96-104 Sargasso Sea, sea weed, Sargassum weed in oceanic desert 1956 Jan. p. 98-104 Climate, abyss, currents in the abyss 1958 July p. 85-90 Cromwell Current, subsurface Equator stream Arctic Ocean, telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, marine biology, Soviet Arctic research 1961 May p. 88-102 Antarctica, Antarctic convergence, Antarctic Ocean, physical oceanography of Antarctic 1962 Sept. p. 113-128 [860] atmosphere, wind, climate, Coriolis effect 1969 Sept. p. 76-86 Coriolis effect, wind effect, currents, laboratory analogues 1970 Jan. p. 114-121 [390] wind, solar radiation, energy cycle, biosphere, albedo, atmospheric circulation, climate, terrestrial radiation, carbon dioxide 'window', Earth energy cycle energy exchange, ocean microstructure, sea-water salinity, oceanic stirring, sea-water temperature 1973 Feb. p. 64-77 [905] east-flowing Equatorial current in Pacific ocean evolution, Earth crust, deep-sea drilling, Pacific plate, plate tectonics, sedimentary cores, voyager of the Glomar Challenger 1973 Nov. p. 102-112 [911]	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166–176 [885] brine, Red Sea hot brines, salinity, percolation, sea-floor spreading 1970 Apr. p. 32-42 1970 Apr. p. 32
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift) 1950 May p. 32-41 ocean circulation, Coriolis effect, atmospheric circulation, relativity of motion 1952 May p. 72-78 [839] Atlantic Ocean, Gulf Stream, salinity, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30-35 [810] Earth, gyres, wind, upwelling, the circulation of the oceans 1955 Sept. p. 96-104 Sargasso Sea, sea weed, Sargassum weed in oceanic desert 1956 Jan. p. 98-104 climate, abyss, currents in the abyss 1958 July p. 85-90 Cromwell Current, subsurface Equator stream 1961 Apr. p. 105-116 Arctic Ocean, telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, marine biology, Soviet Arctic research 1961 May p. 88-102 Antarctica, Antarctic convergence, Antarctic Ocean, physical oceanography of Antarctic 1962 Sept. p. 113-128 [860] atmosphere, wind, climate, Coriolis effect 1969 Sept. p. 76-86 Coriolis effect, wind effect, currents, laboratory analogues 1970 Jan. p. 114-121 [390] wind, solar radiation, energy cycle, biosphere, albedo, atmospheric circulation, climate, terrestrial radiation, carbon dioxide window', Earth energy cycle 1970 Sept. p. 54-63 [1189] energy exchange, ocean microstructure, sea-water salinity, oceanic stirring, sea-water temperature 1973 Feb. p. 64-77 [905] energy exchange, ocean microstructure, sea-water salinity, oceanic stirring, sea-water temperature 1973 Feb. p. 64-77 [905] 1958 Aug. p. 49 ocean evolution, Earth crust, deep-sea drilling, Pacific plate, plate tectonics, sedimentary cores, voyager of the Glomar Challenger 1973 Nov. p. 102-112 [911]	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166–176 [885] brine, Red Sea hot brines, salinity, percolation, sea-floor spreading 1970 Apr. p. 32–42 1977 Mar. p. 66 1977 Mar. p. 66 1978 May p. 74 1959 May p. 74 1960 May p. 92 1960 May p. 92 1960 May p. 92 1960 Oct. p. 95 1960 Oct. p. 95 1960 Oct. p. 95 1960 Oct. p. 95 1960 Oct. p. 96 1977 Nov. p. 74 1960 Oct. p. 97 1977 Nov. p. 74 1977 Nov. p. 75 1977 Nov. p. 75 1977 Nov. p. 76 1977 Nov. p. 76 1977 Nov. p. 77 1977 Nov. p. 77 1977 Nov. p. 78 1977 Nov. p. 78 1977 Nov. p. 78 1977 Nov. p. 79 1977
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift) 1950 May p. 32-41 ocean circulation, Coriolis effect, atmospheric circulation, relativity of motion 1952 May p. 72-78 [839] Atlantic Ocean, Gulf Stream, salinity, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30-35 [810] Earth, gyres, wind, upwelling, the circulation of the oceans 1955 Sept. p. 96-104 Sargasso Sea, sea weed, Sargassum weed in oceanic desert 1956 Jan. p. 98-104 climate, abyss, currents in the abyss 1958 July p. 85-90 Cromwell Current, subsurface Equator stream 1961 Apr. p. 105-116 Arctic Ocean, telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, marine biology, Soviet Arctic research 1961 May p. 88-102 Antarctica, Antarctic convergence, Antarctic Ocean, physical oceanography of Antarctic 1962 Sept. p. 113-128 [860] atmosphere, wind, climate, Coriolis effect 1969 Sept. p. 76-86 Coriolis effect, wind effect, currents, laboratory analogues 1970 Jan. p. 114-121 [390] wind, solar radiation, energy cycle, biosphere, albedo, atmospheric circulation, climate, terrestrial radiation, carbon dioxide window', Earth energy cycle 1970 Sept. p. 54-63 [1189] energy exchange, ocean microstructure, sea-water salinity, oceanic stirring, sea-water temperature 1973 Feb. p. 64-77 [905] energy exchange, ocean microstructure, sea-water salinity, oceanic 1958 Aug. p. 49 coean evolution, Earth crust, deep-sea drilling, Pacific plate, plate 1958 Aug. p. 49 coean evolution, Earth crust, deep-sea drilling, Pacific plate, plate 1973 Nov. p. 102-112 [911] biosphere, continental drift, marine biology, Pangaea, plate tectonics 1974 Apr. p. 80-89 [912]	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166–176 [885] brine, Red Sea hot brines, salinity, percolation, sea-floor spreading 1970 Apr. p. 32–42 1971 Mar. p. 66 1975 Mar. p. 69 1975 Mar. p. 69 May p. 74 1960 Oct. p. 95 1977 Nov. p. 69 1977 Nov. p. 74 1975 Oct. p. 84–91 1975 Oct. p. 95 1975 O
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift) 1950 May p. 32-41 ocean circulation, Coriolis effect, atmospheric circulation, relativity of motion 1952 May p. 72-78 [839] Atlantic Ocean, Gulf Stream, salinity, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30-35 [810] Earth, gyres, wind, upwelling, the circulation of the oceans 1955 Sept. p. 96-104 Sargasso Sea, sea weed, Sargassum weed in oceanic desert 1956 Jan. p. 98-104 climate, abyss, currents in the abyss 1958 July p. 85-90 Cromwell Current, subsurface Equator stream Arctic Ocean, telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, marine biology, Soviet Arctic research 1961 May p. 88-102 Antarctica, Antarctic convergence, Antarctic Ocean, physical oceanography of Antarctic 1962 Sept. p. 113-128 [860] atmosphere, wind, climate, Coriolis effect 1969 Sept. p. 76-86 Coriolis effect, wind effect, currents, laboratory analogues 1970 Jan. p. 114-121 [390] wind, solar radiation, energy cycle, biosphere, albedo, atmospheric circulation, climate, terrestrial radiation, carbon dioxide 'window', Earth energy cycle energy exchange, ocean microstructure, sea-water salinity, oceanic stirring, sea-water temperature 1973 Feb. p. 64-77 [905] east-flowing Equatorial current in Pacific ocean evolution, Earth crust, deep-sea drilling, Pacific plate, plate tectonics, sedimentary cores, voyager of the Glomar Challenger 1973 Nov. p. 102-112 [911] biosphere, continental drift, marine biology, Pangaea, plate tectonics 1974 Apr. p. 80-89 [912] 1949 Apr. p. 44-45	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166–176 [885] brine, Red Sea hot brines, salinity, percolation, sea-floor spreading 1970 Apr. p. 32–42 submarine rifted ridge 1957 Mar. p. 66 layer of volcanic ash on Pacific floor 1959 May p. 74 mid-ocean ridges 1960 May p. 92 seismography, microseism tracking for weather forecasting 1960 Oct. p. 95 anomalous Atlantic fault 1963 Nov. p. 69 ocean-floor animals, marine life, ocean floor photography 1975 Oct. p. 84–91 ocean floor life, photography underwater 1952 July p. 68–69 high-pressure samples 1952 July p. 68–69 high-pressure samples 1952 July p. 68–69 ocean floor minerals, manganese nodules there for the dredging 1958 Oct. p. 58 ocean floor minerals, manganese nodules there for the dredging 1958 Oct. p. 58 ocean floor minerals, manganese nodules there for the dredging 1958 Oct. p. 42–47 bubbles concentrate food for neuston 1957 Oct. p. 42–47 bubbles concentrate food for neuston 1957 Oct. p. 42–47 ocean microstructure, energy exchange, ocean circulation, sea-water salinity, oceanic stirring, sea-water temperature 1973 Feb. p. 64–77 [905] ocean pollution, pollution control, water quality, waste disposal in oceans 1974 Aug. p. 16. 25 ocean ridges, sea-floor spreading, continental drift, magnetic reversal, origin of oceans 1969 Sept. p. 66–75 [826] continental drift, plate tectonics, sea-floor spreading, convection currents, Earth mantle, tensile-stress hypothesis 1969 Nov. p. 102–119 remanent magnetism, mid-Atlantic rift, pillow lava, sea-floor spreading, submersible research craft 1975 Aug. p. 79–61 [918]
ocean floor, tectonic processes, comprehensive review of understanding (before acceptance of continental drift) 1950 May p. 32-41 ocean circulation, Coriolis effect, atmospheric circulation, relativity of motion 1952 May p. 72-78 [839] Atlantic Ocean, Gulf Stream, salinity, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30-35 [810] Earth, gyres, wind, upwelling, the circulation of the oceans 1955 Sept. p. 96-104 Sargasso Sea, sea weed, Sargassum weed in oceanic desert 1956 Jan. p. 98-104 climate, abyss, currents in the abyss 1958 July p. 85-90 Cromwell Current, subsurface Equator stream 1961 Apr. p. 105-116 Arctic Ocean, telemetry, meteorology, Northeast Passage, ice-floe islands, bathymetry, marine biology, Soviet Arctic research 1961 May p. 88-102 Antarctica, Antarctic convergence, Antarctic Ocean, physical oceanography of Antarctic 1962 Sept. p. 113-128 [860] atmosphere, wind, climate, Coriolis effect 1969 Sept. p. 76-86 Coriolis effect, wind effect, currents, laboratory analogues 1970 Jan. p. 114-121 [390] wind, solar radiation, energy cycle, biosphere, albedo, atmospheric circulation, climate, terrestrial radiation, carbon dioxide 'window', Earth energy cycle 1970 Sept. p. 54-63 [1189] energy exchange, ocean microstructure, sea-water salinity, oceanic stirring, sea-water temperature 1973 Feb. p. 64-77 [905] energy exchange, ocean microstructure, sea-water salinity, oceanic stirring, sea-water temperature 1973 Feb. p. 64-77 [905] 1958 Aug. p. 49 ocean evolution, Earth crust, deep-sea drilling, Pacific plate, plate rectonics, sedimentary cores, voyager of the Glomar Challenger 1973 Nov. p. 102-112 [911] biosphere, continental drift, marine biology, Pangaea, plate tectonics	pollution, ocean, mineral resources, sea water, wetlands, physical resources of the ocean 1969 Sept. p. 166–176 [885] brine, Red Sea hot brines, salinity, percolation, sea-floor spreading 1970 Apr. p. 32-42 submarine rifted ridge 1957 Mar. p. 66 layer of volcanic ash on Pacific floor 1959 May p. 74 mid-ocean ridges 1960 May p. 92 seismography, microseism tracking for weather forecasting 1960 Oct. p. 95 anomalous Atlantic fault 1963 Nov. p. 69 ocean-floor animals, marine life, ocean floor photography 1975 Oct. p. 84-91 ocean-floor animals, marine life, ocean floor photography 1952 July p. 68-69 high-pressure samples 1952 July p. 68-69 high-pressure samples 1952 July p. 68-69 ocean floor minerals, manganese nodules there for the dredging 1958 Oct. p. 59 ocean floam, meteorology, condensation nuclei, salt particles, cloud physics, rain, seasalt and rain 1957 Oct. p. 42-47 bubbles concentrate food for neuston 1964 Nov. p. 69 ocean microstructure, energy exchange, ocean circulation, sea-water salinity, oceanic stirring, sea-water temperature 1973 Feb. p. 64-77 [905] ocean ridges, sea-floor spreading, continental drift, magnetic reversalt, origin of oceans 1960 Sept. p. 66-75 [846] continental drift, plate tectonics, sea-floor spreading, convection currents, Earth mantle, tensile-stress hypothesis.

ocean sediments, meteorites, meteoritic dust, solar system evolution,	energy economics, tar sands, petroleum, shale retorts, potential liquid- hydrocarbon reserves 1966 Feb p 21–29
'cosmic spherules' in ocean sediments 1960 Feb p 123–132	Oklo phenomenon, fission products, natural reactor, nuclear fission,
carbon dioxide 'window', atmosphere, climate, biomass, humus, 'greenhouse effect', threat of 'greenhouse effect'	Precambrian reactor, uranium deposits 1976 July p 36–47
1978 Jan p 34–43 [1376]	Other's paradox, cosmology, universe expansion, world lines, curvature of
ocean surface, carbon dioxide, neuston, manne life, microlayer	space, red shift, galactic evolution, evolutionary universe, element formation, genesis 1954 Mar p 54-63
oceanography, rainwater composition, surfactant	formation, genesis Old Copper culture, metallurgy, New World archeology, New World
1974 May p 62-77 [913] ocean temperature, Atlantic Ocean, Gulf Stream, ocean circulation,	archeology, Peru, copper, gold, lost-wax casting, metalwork, pre-
salinity, oxygen level, Coriolis effect, 'anatomy' of the Atlantic	Columbian, New World, 4,000 B C 1966 Apr p 72–81
1955 Jan p 30–35 [810]	Olduvai Gorge, human evolution, toolmakers, man-apes, hand axes, stone
ocean waves, tsunamis, seiches, surf, breakers, generation and	tools 1954 Jan p 66-71 toolmakers, man-apes, human evolution, cultural evolution, role of
propagation of ocean waves 1959 Aug p 74–84 [828]	tool-making in biological evolution of man, introduction to single-
oceanographic exploration, continental shelf exploitation, saturation diving, underwater shelters, decompression, diving	topic issue 1960 Sept p 62–75 [601]
1966 Mar p 24–33 [1036]	hominid, toolmakers, human evolution, foodsharing, evolution of
oceanography, Woods Hole, marine biology 1949 Sept p 13-17	behavior, evidence for protohuman behavior in two-million-year-old
Challenger, marine biology 1953 May p 88–94	sites 1978 Apr p 90–108 [706] human evolution, Homo habilis 1965 May p 50
Atka, icebreaker, Antarctica, I GY, introduction to a single topic	oleoresins, essential oils, steam distillation, vacuum distillation, flavors,
gravity, ocean floor, mid-ocean ridge, African rifts, discovery of	perfumes 1953 Aug p 70–74
submanne rifted ridge 1960 Oct p 98–110	olfaction, chemical senses, taste, chemoreceptor
plant migration. New World archeology, animal migration, Bering land	1952 Mar p 28–32 [404]
bridge, continental shelf, glaciation, Wisconsin glaciation, animal- plant migration. Asia-North America 1962 Jan p 112–123	silkworm, taste, chemical senses, insect chemoreception, comparative physiology 1958 Apr p 97-106
plant migration, Asia-North America 1962 Jan p 112–123 Antarctica, marine biology, food chain, krill, blue whale, ecology,	olfactory nerve, sensory perception, stereochemistry, stereochemical
Antarctic convergence, biological province of Antarctic convergence	theory of odor perception 1964 Feb p 42-49
1962 Sept p 186–210	enantiomers, stereochemical theory of odor 1971 Aug p 46
pollution control, international cooperation, jurisdictional disputes,	olfactory bulb, nerve circuits, dendrites, synapse, postsynaptic potential, retina, microcircuits in the nervous system
resource management, international competition and cooperation 1969 Sept p 218-234 [888]	1978 Feb p 92–103 [1380]
pneumatic breakwaters 1959 Jan p 70	olfactory nerve, sensory perception, stereochemistry, olfaction,
US Federal funding 1959 Apr p 63	stereochemical theory of odor perception 1964 Feb p 42-49
US Office of Naval Research 10 yr plan 1959 Aug p 66	olfactory receptors, sensory perception, Pacinian corpuscle, touch, taste
Vema research ship data 1960 Aug. p 71 dating epochs by foraminefera 1963 Mar p 76	receptors, mechanoreceptors, pain receptors, biological transducers 1960 Aug. p 98-108 [70]
deepsea research craft 1964 May p 64	gypsy moth, biological pest control, pheromones, sex attractants, silk
US grant program announced 1967 Aug p 39	moth, chemotaxis, communication 1974 July p 28-35 [1299]
U.S. Marine Sciences Council 1969 Mar. p. 48	olfactory system, brain circuitry, microscopy, nerve signals, nerve
octopus, conditioned behavior, learning, long-term memory, short-term memory, lobotomy, touch, sensory perception, correlation of brain	structure, staining techniques, Golgi stain, Nissl stain 1971 July p 48-60 [1227]
structure and function in octopus 1965 Mar p 42–50 [1006]	Olsen-Chubbuck site, Paleo-Indians hunting, bison, New World
odds, chance, probability, calculus of chances, causation, philosophy of	archeology, reconstruction of bison hunt, kill, butchering
science, logician's point-of-view 1965 Oct p 44-54	1967 Jan p 44–52
odor-baited lure, insecticide, insect attractant, synthetic attractants, chemotaxis, pheromones, third-generation insecticides	Olympic games, Greek civilization, sports, Iliad account 1968 Aug p 78-85
1964 Aug p 20–27 [189]	omega-minus particle, alternating-gradient synchrotron, 'eightfold way',
Oedipus complex, psychoanalysis, emotional illness 1949 Jan p 22-27	bubble chamber, particle accelerator, high-energy physics, U S
Office of Naval Research, science funding university research	Brookhaven National Laboratory experiment 1964 Oct p 36-45
omap process, continental shelf, continental terrace onlap process,	ommatidia, horseshoe crab, vision, Limulus, visual perception optic nerve, horseshoe crab as laboratory animal 1956 Dec p 113-122
geology 1955 Mar p 82-86 [808]	hearing, vision, sensory organs, neuroreceptor cells cytology, taste
oil, pipelines, fluid dynamics, gas, slurries history and technology of	buds, how cells receive stimuli 1961 Sept p 222-238 [99]
pipelines 1967 Jan p 62–72	compound eye, eye insect eye 1977 July p 108-120 [1364]
oil and gas, North Sea prospects 1966 Mar p 58 oil and gas from coal, coal hydrogenation, coal liquefaction, energy	omnitron accelerator, element 126(?) 1967 Oct p 50 omnivorous chimpanzees, chimpanzee, food sharing, hunting carnivorous
economics, energy resources 1976 May p 24-29	chimpanzees feeding behavior, Gombe National Park, Tanzania
'oil birds', guacharos, sonar, bird navigation 1954 Mar p 78–83	1973 Jan p 32-42 [382]
oil consumption, petroleum oil reserves energy resources, OPEC, finite honzon of petroleum energy economy 1978 Mar p 42-49 [930]	Onandaga tribe, Amerindian, Iroquois Confederacy, New World archeology, cannibalism 1971 Feb p 32-42 [658]
oil diffusion pump, spectroscopy, vacuum ultra-high vacuum sputter-ion	onion Portage site, New World archeology, Eskimo, Bering land bridge,
pump, cryogenic pump, mass, vacuum down to 10 12 mm of mercury	human migration Alaska stone artifacts, gateway to America
oil drilling, petroleum industrial technology, advances in drilling	1968 June n. 24-33
technicology 1958 Nov. p. 99-111	onlap process, continental shelf, continental terrace, offlap process, geology 1955 Mar. p. 82, 86 (508)
water 'coning' counteracted 1956 July p. 52	geology 1955 Mar p 82-86 [808] oocy togenesis, embryonic development, meiosis, mitosis, mammalian
oil drive, ultracentrifuge, molecular weight sedimentation fractionation	eggs chromosomal anomalies, ovum, in vitro fertilization
air drive magnetic suspension 900 000 g, 60 million r p m 1951 June p 42-51	1966 Aug n 72_81 (10.17)
oil gasification, coal gasification gas turbine, pollution control energy	opal colors, diffraction gemstones grain structure, periodic structures silica-sphere packing 1976 Apr. p. 84-95
resources 1972 Oct p. 26–35	OPFC Organization of Petroleum Exporting Countries
oll reserves, coal energy resources natural gas energy economies fossil fuel impending petroleum shortage 1956 Oct p 43-49	OPEC, petroleum oil reserves oil consumption energy resources finite
petroleum oil consumption energy resources OPIC, finite horizon of	nonzon di petidicum energy economy 1978 Vor = 12 to topo
petroleum energy economy 1978 Mar in 42-49 [930]	open hearth furnace, oxygen injection steel production basic oxygen process
oil shales, shale notors mining, energy resources fossil fuel oil from	open universe, cosmology, 'big bang' theory, 'closed' universe universe
1952 Feb p 15-19	est moon dediction abundance age of elements average density
<u>-</u>	1976 Mar p 62-79

obstetrical labor, uterine muscle, strain gauge, measureme	ent of forces in	Farth crist mountain formation	
aterme muscle at delivery 105	D Mar - 52 55	Earth crust, mountain formation, isostasis, granitization occ	an bas
occuration patterns, radio source, quasars, radio astronom	y, accurate	Process, comprehensive review of understanding	
fixing of radio-source position, occulation by moon	•	sonar seismology sedimental drift) 1950 Ma	1 p 1
196	6 June p 30-41	sonar, seismology, sedimentary cores, Albatross voyage, isoto Swedish deep-sea expedition 1950 Aug	
occupational cancer, cancer, cancer epidemiology, carcino	Denesis cancer	Swedish deep-sea expedition 1950 Aug	z. p. 4.
prevention, increased incidence of cancer sought in ea	nvironmental	geology, seismology, Earth science, science, Earth core, Earth	
and behavioral factors 192	10 Ian n 11 15	geochronology, geology 1900-1950 1950 Sept	трч
occupational nearth, epidemiology, morbidity, mortality ra	tes economic	topography, Aleutian Trench, seamounts, fathogram, sonar, e	echo-
development, income status, 'social medicine', enviro	nment material	sounding, the Pacific floor 1952 Apr	грв
well-being, behavior of disease 194	9 Apr p 11–15	Pacific Ocean, Mendocino escarpment, fracture zones seamon	
berylliosis, phosphorus, fluorescent light, chelation, high	technology	Earth mantle convection 1955 July	p 36
disease	3 Aug p 27–33	Pacific Ocean, earth crust, Acapulco trench, Tonga Trench Co	
noise-induced hearing loss, noise pollution, auditory imp	nag p 21-33	Trough 1955 Nov p 36	5-41 Ji
industrial hygiene, public health, preventing noise-ind	January Jugad bannan	submarine canyons, turbidity currents, continental shell, subm	
loss, US noise pollution legislation 1966 Dec	= 66 76 (206)	avalanches and topography of ocean floor 1956 Aug	
maximum irradiation limits	p 00~70 [300]	bathymetry, sonar, gravimetry, continental shelf, sedimentary	
	957 Mar p 68	Lamont Geophyscial Observatory 1956 Dec	•
ocean, beaches, sand dune, sand bar, berm, surf, rip channel	951 Mar p 30	bathyscaph, submarine 'blimp' 1958 Apr	P 24
conservation of beaches 1960 Ang	eis,	glaciation, sea level, continental uplift, sea level variations	70
	p 80-94 [845]	1960 May	
ocean floor, sea power, sea water, marine resources, intro single-topic issue on the ocean 1969 Sept	oauction to	gravity, mid-ocean ridge, oceanography, African nfis discover	3 01
	p 54-65 [879]	submarine rifted ridge 1960 Oct p	
continental shelf, glaciation, shelf sediments, marine geol	logy	muneral resources, manganese nodules, muning industry, miner	als on
1969 Sept p	106-122 [882]	the ocean floor 1960 Dec	
sea, food chain, plankton, marine ecology, fish, marine life	ie, life in the	geomagnetism, magnetometer, magnetic reversals, patterned m	agneti
ocean 1969 Sept p	146-162 [884]	field variations in the ocean floor 1961 Oct p	146~1
pollution, mineral resources, sea water, wetlands, ocean f.	loor, physical	East Pacific Rise, subterranean heat flow, trench faults, earthque	rayes
resources of the ocean 1969 Sept p	166-176 [885]	convection currents 1961 Dec	p 32-
food chain, fisheries, food supply, food resources of the o		seismology, Vema, explosion generated sound waves map ocean	n 11001
1969 Sept p	178–194 [886]	(962 May p	110-120
marine technology, drilling platforms, supertankers, subn	nersibles,	sonar, echo-sounding, plankton, deep-sea scattering layer, photo	IC ZONC
containerization, technology and the ocean		'false bottom' 1962 July p	p 44-30
	198-217 [887]	micropaleontology, foraminifera, climate history recorded in oc	ean oc tessi
water cycle, transpiration, evaporation, runoff, agricultura		sediments 1962 July p 96-10	00 (020)
precipitation, biosphere, photosynthesis 1970 Sept p	98–108 [1191]	continental drift, remanent magnetism, plate tectonics, island ar	rcs
	951 Jan p 28	Wegener hypothesis re-stated with new evidence, age of tooks	i
ocean abyss, abyssal life, bioluminescence, marine biology, f	fauna at 4000	1963 Apr p 86-10	-ojo UU lou i
	Nov p 50-57	ocean, sea power, sea water, marine resources, introduction to si	ngie cs (270)
ocean-atmosphere interface, trade wind clouds, climate, atm	ospheric	tonic issue on the ocean 1969 Sept P 3400	17 (017)
circulation, cumulus clouds 1953 1	Nov p 31-35	sea-floor spreading, lava, dikes magnetic bands, mid ocean ridge	e 1110 12831
ocean basins, Earth crust, mountain formation, isostasis, gra	nitization,	deen ocean floor 1909 Sept p 120-13	12 10 1
ocean floor, tectonic processes, comprehensive review of	f	pollution, ocean, mineral resources, sea water, wetlands, physical	16 18851
understanding (before acceptance of continental drift)		resources of the ocean 1969 Sept p 166-17	no (o -)
	May p 32–41	brine, Red Sea hot brines salinity, percolation, sea floor spreadit 1970 Apr p	32-42
ocean circulation, Corrolis effect, atmospheric circulation, rel	lativity of	1057 Mar	n 66
	72-78 [839]		n 74
Atlantic Ocean, Gulf Stream, salinity, oxygen level, ocean		inco Mai	n 92
	30-35 [810]		, .
Earth, gyres, wind, upwelling, the circulation of the oceans		seismography, microseism tracking for weather forecasting 1960 Oct	p 95
1955 Sep	pt p 96-104		p 69
Sargasso Sea, sea weed, Sargassum weed in oceanic desert	. 00 104	anomalous Atlantic fault oasis at rift zone 1963 Nov 1977 Nov	p 74
	m p 98-104	floor operate marine life ocean floor photography	
		1975 UCL P	84-91
Cromwell Current, subsurface Equator stream 1961 Apr	p 105–116	- and floor life who to graphy undersister 1952 July P	64 64
Arctic Ocean telemetry, meteorology, Northeast Passage, to		hack massure comples 1952 July	b 38
islands, bathymetry, marine biology, Soviet Arctic resear	ryp 88–102	abyssal monsters plans for trolling 1954 Feb	p 50
Automatic Ocean which	13 b 00-10*	and the manager manager podules there for the dreugille	
Antarctica, Antarctic convergence, Antarctic Ocean physic	12 170 (040)	1938 OCI	יכ ק
	pt p 76-86	ocean foam, meteorology, condensation nuclei, salt particles cloud	. 17
	p. p 10 02	always and contribution density (937 Oct 1) 7	- 60
Corrolis effect, wind effect, currents, laboratory analogues 1970 Jan p 11	4-121 [390]	bubbles concentrate food for neuston 1964 Nov 1	f. (-,
wind, solar radiation, energy cycle, biosphere, albedo, atmos	spheric C	ocean microstructure, energy exchange ocean circulation sea water	
circulation, climate, terrestrial radiation, earbon dioxide		- I	1905)
E 1 or old 1970 SCDL D 2		sammly, occanic stiffing, sea water temperature 1973 Feb p 64-77 (art
Earli chorp of the microstructure sea water salinity, of	ceanic o	scean pollution, pollution control water quality, waste disposal in occ 1974 Aug. p. 16	6 25
		the second of th	i
Stiffing, scarrater temperature Pacific 1958	Aug p 49 o	seean ridges, sea floor spreading continent il drift magnetic reversifs	ree}
	ate	origin of oceans continental drift plate tectorics sea floor specific, convection	
		Carl monet a tame to title BVDOUCTS	
		370 F 101 D 2004	119
biosphere, continental drift, marine biology, Pangaea plate t	CC1011CS 2089 (917)	te 1 plant coft pillow live see floor	. 461
101.11		craft 1973 Aug p 79 9919	1373
ocean floor, continental shell, submitted and Loag Dec	cp 44-45 oc	rean rifts, domes hot spots island ares plate trett nics plumes. 1976 Aug. p. 45, 57 [9]	,
aerial photograph	,	volcanoes	- ,

	organic superconductor, energy transfer, superconductors, electron pairs, proposal for room-temperature superconductor 1965 Feb p 21–27
(pre-Sputnik) satellite 1956 Nov p 41–47	proposal for foom-temperature superconductor 1969 Feb p 21-27
rtificial satellites, artificial satellite, forecast of lunar rocket	Organization of Petroleum Exporting Countries, see OPEC
	organometallic compounds, chelation, metal ions, sequestering, ring
	compounds, porphyrin ring, metal-poisoning antidote, chemical
rtificial satellite, satellite, space exploration, Sputnik, tracking station,	
first artificial Earth satellite 1957 Dec p 37-43	
rtificial satellite, interferometry, antennae, radio astronomy, tracking	origins of life, Miller-Urey experiment, high-energy radiation,
station, satellite tracking 1958 Jan p 23-29	heterotrophs, fermentation, photosynthesis, autotrophs
Neptune, solar system, Pluto, Pluto as escaped Neptunian satellite	1954 Aug. p 44–53 [47]
1959 Apr p 86–100 [295]	bacteria, blue-green algae, fossil cells, evolution, Gunflint cherts,
	Precambrian rocks, prokaryotic cells, oldest fossils
rtificial satellite, ionosphere, climate, aurora borealis, Van Allen belts,	
meteorology, solar particle influence on Earth atmosphere	1971 May p 30–42 [395]
1959 Aug p 37-43 [851]	benzene, carbon chemistry, chemical accelerators, high-energy carbon
nterplanetary navigation, spacecraft, rocket, communication	reactions 1975 Jan p 72–79
interplanetary mavigation, spacecraft, rocket, communication	extraterrestrial intelligence, interstellar communication, planetary
technology, navigation, technology of space navigation	
1960 Mar p 64-73	and the second s
artificial satellite, space exploration, Mercury, re-entry vehicle,	fossil cells in 3-billion-year-old rock 1956 July p 50
ablation, re-entry corridor, re-entry from space 1961 Jan p 49-57	synthesis of adenine in electron beam 1963 Aug. p 52
artificial satellite, communication satellite, telecommunication, Echo II	protein synthesis, thermal theory of biological origins
satellite, radio, satellite communication systems, consideration of	1964 Apr. p 64
10(1.0 00.103	Orion nebula, nebulae, stellar evolution, ultraviolet radiation, hydrogen
alternatives 1961 Oct p 90–102	
Mariner 2, space exploration, telemetry, Venus, navigation, high-	density, dating interstellar bodies 1965 Feb p 90–101
resolution studies of Venus 1963 July p 70-84	ornithology, evolution, speciation, guillemot, skua, melanism, avian
artificial satellite, X-ray astronomy, satellite-emplaced telescope	evolution 1957 May p 124–134
1963 Aug p 28–37	birds, geographical distribution, speciation, behavioral adaptation, bird
Earth, stellar aberration, Gamma Draconis, discovery of stellar	migration, adaptation, provinciality of birds 1957 July p 118–128
aberration by James Bradley 1964 Mar p 100-108	animal behavior, incubator birds, eggs, chicken, fowl, hatching eggs in
artificial satellite, geomagnetism, solar wind, magnetosphere, aurora,	hot places 1959 Aug p 52–58
magnetometer 1965 Mar p 58-65	crow, signal behavior, animal behavior, language of crows
	1959 Nov. p 119–131
asteroids, Icarus, meteorites 1965 Apr p 106-115	
artificial satellite, Earth, geoid, equatorial bulge, shape of the Earth	soaring, wind velocity, thermal cells, air currents, aerodynamics, bird
1967 Oct p 67–76 [873]	flight, flight of soaring birds 1962 Apr. p 130–140
Apollo project, laser reflection, moon, lunar-ranging experiment,	anımal behavior, Antarctica, skua, south polar skua
corner reflector, Earth-Moon distance measurement	1964 Feb p 94–100
1970 Mar p 38–49	egg color-code 1958 Âug. p 54
Mariner 6, Mars, Mariner 7, telemetry, polar cap, television camera,	'silent' flight mechanism of owl 1962 Apr. p 78
cratering, surface pictures and map of Mars 1970 May p 26-41	animal communication, Lanarius erythrogaster song 1963 May p 80
rbiting observatories, two of them, manned, by 1975 1966 Apr p 48	orthodoxy, Lysenkoism, Lamarck, acquired characteristics, genotype,
rchids, fungi, symbiosis, mycorrhiza, plant evolution, adaptation,	evolution, phenotype, mutation, ostrich calluses, speciation, religion,
adaptive ability of orchids 1966 Jan p 70-78	Darwinism, experiments in acquired characteristics
ordinal numbers, cardinal numbers, child development, mathematics	1953 Dec p 92-99
education, mathematics history, number concepts	oryx, cichlid fish, marine iguana, rattlesnake, fighting behavior, animal
1973 Mar p 101–109	behavior, comparative psychology 1961 Dec p 112–122 [470]
ore beneficiation, flotation, mineral separation, surfactant, bubbles,	oscillating reagents, chemical reaction, computer modeling, rotating
collector ions 1956 Dec p 99–110	chemical reactions, non-linear reactions 1974 June p 82–95
	chemical reactions, non-linear reactions 1974 June p 82–95
collector ions 1956 Dec p 99-110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28-35	chemical reactions, non-linear reactions 1974 June p 82–95 oscillographs, musical tones 1951 May p 52–53
collector ions 1956 Dec p 99-110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28-35 preopithecus, primates, human evolution, orepithecus in lineage of Homo	chemical reactions, non-linear reactions oscillographs, musical tones oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand
collector ions 1956 Dec p 99-110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28-35 preopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91-100	chemical reactions, non-linear reactions oscillographs, musical tones oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92–101
collector ions 1956 Dec p 99-110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28-35 preopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91-100 organ-pipe analogy, stellar composition, variable stars, stellar brightness	chemical reactions, non-linear reactions oscillographs, musical tones oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92–101 osmosis, kidney, counter-current exchange, urine, nephron, glomerulus,
collector ions 1956 Dec p 99-110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28-35 preopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91-100 organ-pipe analogy, stellar composition, variable stars, stellar brightness 1975 June p 66-75	chemical reactions, non-linear reactions oscillographs, musical tones oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92–101 osmosis, kidney, counter-current exchange, urine, nephron, glomerulus, anatomy and physiology of the kidney 1953 Jan p 40–48 [37]
collector ions 1956 Dec p 99-110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28-35 preopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91-100 organ-pipe analogy, stellar composition, variable stars, stellar brightness 1975 June p 66-75 organ transplant, artificial heart, heart transplant, kidney transplant,	chemical reactions, non-linear reactions oscillographs, musical tones 1974 June p 82–95 oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92–101 osmosis, kidney, counter-current exchange, unne, nephron, glomerulus, anatomy and physiology of the kidney 1953 Jan p 40–48 [37] active transport, passive transport, pinocytosis, phagocytosis, cytology.
collector ions 1956 Dec p 99-110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28-35 preopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91-100 organ-pipe analogy, stellar composition, variable stars, stellar brightness 1975 June p 66-75	chemical reactions, non-linear reactions oscillographs, musical tones 1974 June p 82–95 oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92–101 osmosis, kidney, counter-current exchange, unne, nephron, glomerulus, anatomy and physiology of the kidney 1953 Jan p 40–48 [37] active transport, passive transport, pinocytosis, phagocytosis, cytology.
collector ions 1956 Dec p 99-110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28-35 preopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91-100 organ-pipe analogy, stellar composition, variable stars, stellar brightness 1975 June p 66-75 organ transplant, artificial heart, heart transplant, kidney transplant, immunosupression, mechanical heart implant 1965 Nov p 38-46 [1023]	chemical reactions, non-linear reactions oscillographs, musical tones 1951 May p 52–53 oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92–101 osmosis, kidney, counter-current exchange, unne, nephron, glomerulus, anatomy and physiology of the kidney 1953 Jan p 40–48 [37] active transport, passive transport, pinocytosis, phagocytosis, cytology, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96]
collector ions 1956 Dec p 99-110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28-35 preopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91-100 organ-pipe analogy, stellar composition, variable stars, stellar brightness 1975 June p 66-75 organ transplant, artificial heart, heart transplant, kidney transplant, immunosupression, mechanical heart implant 1965 Nov p 38-46 [1023]	chemical reactions, non-linear reactions oscillographs, musical tones 1951 May p 52–53 oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92–101 osmosis, kidney, counter-current exchange, unne, nephron, glomerulus, anatomy and physiology of the kidney 1953 Jan p 40–48 [37] active transport, passive transport, pinocytosis, phagocytosis, cytology, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96]
collector ions 1956 Dec p 99-110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28-35 preopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91-100 organ-pipe analogy, stellar composition, variable stars, stellar brightness 1975 June p 66-75 organ transplant, artificial heart, heart transplant, kidney transplant, immunosupression, mechanical heart implant 1965 Nov p 38-46 [1023] cell membrane, immune response, tissue grafts, tissue-typing, self-	chemical reactions, non-linear reactions oscillographs, musical tones 1951 May p 52–53 oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92–101 osmosis, kidney, counter-current exchange, urine, nephron, glomerulus, anatomy and physiology of the kidney 1953 Jan p 40–48 [37] active transport, passive transport, pinocytosis, phagocytosis, cytology, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96] 'anomalous' water, 'biological' water, blood, hemoglobin, water,
collector ions 1956 Dec p 99-110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28-35 preopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91-100 organ-pipe analogy, stellar composition, variable stars, stellar brightness 1975 June p 66-75 organ transplant, artificial heart, heart transplant, kidney transplant, immunosupression, mechanical heart implant 1965 Nov p 38-46 [1023] cell membrane, immune response, tissue grafts, tissue-typing, self- marker hypothesis 1972 June p 28-37 [1251]	chemical reactions, non-linear reactions oscillographs, musical tones oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92–101 osmosis, kidney, counter-current exchange, urine, nephron, glomerulus, anatomy and physiology of the kidney 1953 Jan p 40–48 [37] active transport, passive transport, pinocytosis, phagocytosis, cytology, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96] 'anomalous' water, 'biological' water, blood, hemoglobin, water, membrane permeability, erythrocyte, van 't Hoff law
collector ions 1956 Dec p 99–110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28–35 oreopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91–100 organ-pipe analogy, stellar composition, variable stars, stellar brightness 1975 June p 66–75 organ transplant, artificial heart, heart transplant, kidney transplant, immunosupression, mechanical heart implant 1965 Nov p 38–46 [1023] cell membrane, immune response, tissue grafts, tissue-typing, self- marker hypothesis 1972 June p 28–37 [1251] Uniform Anatomical Gift Act 1973 Mar p 45	chemical reactions, non-linear reactions oscillographs, musical tones 1974 June p 82-95 oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92-101 osmosis, kidney, counter-current exchange, urine, nephron, glomerulus, anatomy and physiology of the kidney 1953 Jan p 40-48 [37] active transport, passive transport, pinocytosis, phagocytosis, cytology, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167-180 [96] 'anomalous' water, 'biological' water, blood, hemoglobin, water, membrane permeability, erythrocyte, van 't Hoff law 1971 Feb p 88-96 [1213]
collector ions 1956 Dec p 99–110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28–35 preopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91–100 organ-pipe analogy, stellar composition, variable stars, stellar brightness 1975 June p 66–75 organ transplant, artificial heart, heart transplant, kidney transplant, immunosupression, mechanical heart implant 1965 Nov p 38–46 [1023] cell membrane, immune response, tissue grafts, tissue-typing, selfmarker hypothesis 1972 June p 28–37 [1251] Uniform Anatomical Gift Act 1973 Mar p 45 organic chemistry, isomerism, isotopes, bulk effect, paths of atoms in	chemical reactions, non-linear reactions oscillographs, musical tones 1974 June p 82-95 oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92-101 osmosis, kidney, counter-current exchange, urine, nephron, glomerulus, anatomy and physiology of the kidney 1953 Jan p 40-48 [37] active transport, passive transport, pinocytosis, phagocytosis, cytology, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167-180 [96] 'anomalous' water, 'biological' water, blood, hemoglobin, water, membrane permeability, erythrocyte, van 't Hoff law 1971 Feb p 88-96 [1213] osteoclasts, bone, calcium, cartilage, feedback, hydroxyapatite crystal
collector ions 1956 Dec p 99–110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28–35 breopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91–100 organ-pipe analogy, stellar composition, variable stars, stellar brightness 1975 June p 66–75 organ transplant, artificial heart, heart transplant, kidney transplant, immunosupression, mechanical heart implant 1965 Nov p 38–46 [1023] cell membrane, immune response, tissue grafts, tissue-typing, self- marker hypothesis 1972 June p 28–37 [1251] Uniform Anatomical Gift Act 1973 Mar p 45 organic chemistry, isomerism, isotopes, bulk effect, paths of atoms in chemical reactions 1957 Nov p 117–126 [85]	chemical reactions, non-linear reactions oscillographs, musical tones 1974 June p 82–95 oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92–101 osmosis, kidney, counter-current exchange, unne, nephron, glomerulus, anatomy and physiology of the kidney 1953 Jan p 40–48 [37] active transport, passive transport, pinocytosis, phagocytosis, cytology, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96] 'anomalous' water, 'biological' water, blood, hemoglobin, water, membrane permeability, erythrocyte, van 't Hoff law 1971 Feb p 88–96 [1213] osteoclasts, bone, calcium, cartilage, feedback, hydroxyapatite crystal 1955 Feb p 84–91
collector ions 1956 Dec p 99–110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28–35 breopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91–100 organ-pipe analogy, stellar composition, variable stars, stellar brightness 1975 June p 66–75 organ transplant, artificial heart, heart transplant, kidney transplant, immunosupression, mechanical heart implant 1965 Nov p 38–46 [1023] cell membrane, immune response, tissue grafts, tissue-typing, self- marker hypothesis 1972 June p 28–37 [1251] Uniform Anatomical Gift Act 1973 Mar p 45 organic chemistry, isomerism, isotopes, bulk effect, paths of atoms in chemical reactions 1957 Nov p 117–126 [85] ionizing radiation, free radicals, polymerization, ionizing radiation in	chemical reactions, non-linear reactions oscillographs, musical tones oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention Braun's invention, glomerulius, anatomy and physiology of the kidney Braun's natomy and physiology of the kidney Braun's natomy and physiology of the kidney Braun's invention, glomerulius, anatomy and physiology of the kidney Braun's invention, phagocytosis, cytology, cell membranes Braun's invention Bra
collector ions 1956 Dec p 99–110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28–35 oreopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91–100 organ-pipe analogy, stellar composition, variable stars, stellar brightness 1975 June p 66–75 organ transplant, artificial heart, heart transplant, kidney transplant, immunosupression, mechanical heart implant 1965 Nov p 38–46 [1023] cell membrane, immune response, tissue grafts, tissue-typing, self- marker hypothesis 1972 June p 28–37 [1251] Uniform Anatomical Gift Act 1973 Mar p 45 organic chemistry, isomerism, isotopes, bulk effect, paths of atoms in chemical reactions 1957 Nov p 117–126 [85] ionizing radiation, free radicals, polymerization, ionizing radiation in industrial chemistry.	chemical reactions, non-linear reactions oscillographs, musical tones oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention Braun's invention, glomerulius, anatomy and physiology of the kidney Braun's natomy and physiology of the kidney Braun's natomy and physiology of the kidney Braun's invention, glomerulius, anatomy and physiology of the kidney Braun's invention, phagocytosis, cytology, cell membranes Braun's invention Bra
collector ions 1956 Dec p 99–110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28–35 oreopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91–100 organ-pipe analogy, stellar composition, variable stars, stellar brightness 1975 June p 66–75 organ transplant, artificial heart, heart transplant, kidney transplant, immunosupression, mechanical heart implant 1965 Nov p 38–46 [1023] cell membrane, immune response, tissue grafts, tissue-typing, self- marker hypothesis 1972 June p 28–37 [1251] Uniform Anatomical Gift Act 1973 Mar p 45 organic chemistry, isomerism, isotopes, bulk effect, paths of atoms in chemical reactions 1957 Nov p 117–126 [85] ionizing radiation, free radicals, polymerization, ionizing radiation in industrial chemistry.	chemical reactions, non-linear reactions oscillographs, musical tones 1974 June p 82–95 oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92–101 osmosis, kidney, counter-current exchange, unne, nephron, glomerulus, anatomy and physiology of the kidney 1953 Jan p 40–48 [37] active transport, passive transport, pinocytosis, phagocytosis, cytology, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96] 'anomalous' water, 'biological' water, blood, hemoglobin, water, membrane permeability, erythrocyte, van 't Hoff law 1971 Feb p 88–96 [1213] osteoclasts, bone, calcium, cartilage, feedback, hydroxyapatite crystal 1955 Feb p 84–91 osteogenesis, calcium metabolism, parathyroid hormone, phosphate metabolism, vitamin D, parathyroid function
collector ions 1956 Dec p 99–110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28–35 oreopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91–100 organ-pipe analogy, stellar composition, variable stars, stellar brightness 1975 June p 66–75 organ transplant, artificial heart, heart transplant, kidney transplant, immunosupression, mechanical heart implant 1965 Nov p 38–46 [1023] cell membrane, immune response, tissue grafts, tissue-typing, selfmarker hypothesis 1972 June p 28–37 [1251] Uniform Anatomical Gift Act 1973 Mar p 45 organic chemistry, isomerism, isotopes, bulk effect, paths of atoms in chemical reactions 1957 Nov p 117–126 [85] ionizing radiation, free radicals, polymerization, ionizing radiation in industrial chemistry 1959 Sept p 180–196 organic crystals, anthracene, crystallography, photosynthesis, electron	chemical reactions, non-linear reactions oscillographs, musical tones 1974 June p 82-95 oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92-101 osmosis, kidney, counter-current exchange, urine, nephron, glomerulus, anatomy and physiology of the kidney 1953 Jan p 40-48 [37] active transport, passive transport, pinocytosis, phagocytosis, cytology, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167-180 [96] 'anomalous' water, 'biological' water, blood, hemoglobin, water, membrane permeability, erythrocyte, van 't Hoff law 1971 Feb p 88-96 [1213] osteoclasts, bone, calcium, cartilage, feedback, hydroxyapatite crystal 1955 Feb p 84-91 osteogenesis, calcium metabolism, parathyroid hormone, phosphate metabolism, vitamin D, parathyroid function
collector ions 1956 Dec p 99–110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28–35 oreopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91–100 organ-pipe analogy, stellar composition, variable stars, stellar brightness 1975 June p 66–75 organ transplant, artificial heart, heart transplant, kidney transplant, immunosupression, mechanical heart implant 1965 Nov p 38–46 [1023] cell membrane, immune response, tissue grafts, tissue-typing, self- marker hypothesis 1972 June p 28–37 [1251] Uniform Anatomical Gift Act 1973 Mar p 45 organic chemistry, isomerism, isotopes, bulk effect, paths of atoms in chemical reactions 1957 Nov p 117–126 [85] ionizing radiation, free radicals, polymerization, ionizing radiation in industrial chemistry 1959 Sept p 180–196 organic crystals, anthracene, crystallography, photosynthesis, electron transfer, exciton, plants, conjugated aromatic hydrocarbons	chemical reactions, non-linear reactions oscillographs, musical tones 1974 June p 82–95 oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92–101 osmosis, kidney, counter-current exchange, urine, nephron, glomerulus, anatomy and physiology of the kidney 1953 Jan p 40–48 [37] active transport, passive transport, pinocytosis, phagocytosis, cytology, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96] 'anomalous' water, 'biological' water, blood, hemoglobin, water, membrane permeability, erythrocyte, van 't Hoff law 1971 Feb p 88–96 [1213] osteoclasts, bone, calcium, cartilage, feedback, hydroxyapatite crystal 1955 Feb p 84–91 osteogenesis, calcium metabolism, parathyroid hormone, phosphate metabolism, vitamin D, parathyroid function 1961 Apr p 56–63 [86] bone, piezoelectricity, collagen, calcium metabolism, bone adaptation
collector ions 1956 Dec p 99–110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28–35 oreopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91–100 organ-pipe analogy, stellar composition, variable stars, stellar brightness 1975 June p 66–75 organ transplant, artificial heart, heart transplant, kidney transplant, immunosupression, mechanical heart implant 1965 Nov p 38–46 [1023] cell membrane, immune response, tissue grafts, tissue-typing, self- marker hypothesis 1972 June p 28–37 [1251] Uniform Anatomical Gift Act 1973 Mar p 45 organic chemistry, isomerism, isotopes, bulk effect, paths of atoms in chemical reactions 1957 Nov p 117–126 [85] ionizing radiation, free radicals, polymerization, ionizing radiation in industrial chemistry 1959 Sept p 180–196 organic crystals, anthracene, crystallography, photosynthesis, electron transfer, exciton, plants, conjugated aromatic hydrocarbons 1967 Jan p 86–97	chemical reactions, non-linear reactions oscillographs, musical tones 1974 June p 82–95 oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92–101 osmosis, kidney, counter-current exchange, unne, nephron, glomerulus, anatomy and physiology of the kidney 1953 Jan p 40–48 [37] active transport, passive transport, pinocytosis, phagocytosis, cytology, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96] 'anomalous' water, 'biological' water, blood, hemoglobin, water, membrane permeability, erythrocyte, van 't Hoff law 1971 Feb p 88–96 [1213] osteoclasts, bone, calcium, cartilage, feedback, hydroxyapatite crystal 1955 Feb p 84–91 osteogenesis, calcium metabolism, parathyroid hormone, phosphate metabolism, vitamin D, parathyroid function 1961 Apr p 56–63 [86] bone, piezoelectricity, collagen, calcium metabolism, bone adaptation to mechanical stress 1965 Oct p 18–25 [1021]
collector ions 1956 Dec p 99–110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28–35 preopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91–100 organ-pipe analogy, stellar composition, variable stars, stellar brightness 1975 June p 66–75 organ transplant, artificial heart, heart transplant, kidney transplant, immunosupression, mechanical heart implant 1965 Nov p 38–46 [1023] cell membrane, immune response, tissue grafts, tissue-typing, self- marker hypothesis 1972 June p 28–37 [1251] Uniform Anatomical Gift Act 1973 Mar p 45 organic chemistry, isomerism, isotopes, bulk effect, paths of atoms in chemical reactions 1957 Nov p 117–126 [85] ionizing radiation, free radicals, polymerization, ionizing radiation in industrial chemistry 1959 Sept p 180–196 organic crystals, anthracene, crystallography, photosynthesis, electron transfer, exciton, plants, conjugated aromatic hydrocarbons 1967 Jan p 86–97 organic decay, slow in deep sea	chemical reactions, non-linear reactions oscillographs, musical tones 1951 May p 52–53 oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92–101 osmosis, kidney, counter-current exchange, unne, nephron, glomerulus, anatomy and physiology of the kidney 1953 Jan p 40–48 [37] active transport, passive transport, pinocytosis, phagocytosis, cytology, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96] 'anomalous' water, 'biological' water, blood, hemoglobin, water, membrane permeability, erythrocyte, van 't Hoff law 1971 Feb p 88–96 [1213] osteoclasts, bone, calcium, cartilage, feedback, hydroxyapatite crystal 1955 Feb p 84–91 osteogenesis, calcium metabolism, parathyroid hormone, phosphate metabolism, vitamin D, parathyroid function 1961 Apr p 56–63 [86] bone, piezoelectricity, collagen, calcium metabolism, bone adaptation to mechanical stress 1965 Oct p 18–25 [1021] evolution, horn, antler, bone, keratin, ungulates, differences between
collector ions 1956 Dec p 99–110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28–35 oreopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91–100 organ-pipe analogy, stellar composition, variable stars, stellar brightness 1975 June p 66–75 organ transplant, artificial heart, heart transplant, kidney transplant, immunosupression, mechanical heart implant 1965 Nov p 38–46 [1023] cell membrane, immune response, tissue grafts, tissue-typing, self- marker hypothesis 1972 June p 28–37 [1251] Uniform Anatomical Gift Act 1973 Mar p 45 organic chemistry, isomerism, isotopes, bulk effect, paths of atoms in chemical reactions 1957 Nov p 117–126 [85] ionizing radiation, free radicals, polymerization, ionizing radiation in industrial chemistry 1959 Sept p 180–196 organic crystals, anthracene, crystallography, photosynthesis, electron transfer, exciton, plants, conjugated aromatic hydrocarbons 1967 Jan p 86–97 organic decay, slow in deep sea 1973 Apr p 45 organic lasers, tunable laser	chemical reactions, non-linear reactions oscillographs, musical tones 1951 May p 52–53 oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92–101 osmosis, kidney, counter-current exchange, unne, nephron, glomerulus, anatomy and physiology of the kidney 1953 Jan p 40–48 [37] active transport, passive transport, pinocytosis, phagocytosis, cytology, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96] 'anomalous' water, 'biological' water, blood, hemoglobin, water, membrane permeability, ery throcyte, van 't Hoff law 1971 Feb p 88–96 [1213] osteoclasts, bone, calcium, cartilage, feedback, hydroxyapatite crystal 1955 Feb p 84–91 osteogenesis, calcium metabolism, parathyroid hormone, phosphate metabolism, vitamin D, parathyroid function 1961 Apr p 56–63 [86] bone, piezoelectricity, collagen, calcium metabolism, bone adaptation to mechanical stress 1965 Oct p 18–25 [1021] evolution, horn, antler, bone, keratin, ungulates, differences between horns and antlers
collector ions 1956 Dec p 99–110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28–35 oreopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91–100 organ-pipe analogy, stellar composition, variable stars, stellar brightness 1975 June p 66–75 organ transplant, artificial heart, heart transplant, kidney transplant, immunosupression, mechanical heart implant 1965 Nov p 38–46 [1023] cell membrane, immune response, tissue grafts, tissue-typing, self- marker hypothesis 1972 June p 28–37 [1251] Uniform Anatomical Gift Act 1973 Mar p 45 organic chemistry, isomerism, isotopes, bulk effect, paths of atoms in chemical reactions 1957 Nov p 117–126 [85] ionizing radiation, free radicals, polymerization, ionizing radiation in industrial chemistry organic crystals, anthracene, crystallography, photosynthesis, electron transfer, exciton, plants, conjugated aromatic hydrocarbons 1967 Jan p 86–97 organic decay, slow in deep sea 1973 Apr p 45 organic molecules, extraterrestrial life meteorites, chondules, pagenesis	chemical reactions, non-linear reactions oscillographs, musical tones 1951 May p 52-53 oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92-101 osmosis, kidney, counter-current exchange, urine, nephron, glomerulus, anatomy and physiology of the kidney 1953 Jan p 40-48 [37] active transport, passive transport, pinocytosis, phagocytosis, cytology, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167-180 [96] 'anomalous' water, 'biological' water, blood, hemoglobin, water, membrane permeability, erythrocyte, van 't Hoff law 1971 Feb p 88-96 [1213] osteoclasts, bone, calcium, cartilage, feedback, hydroxyapatite crystal 1955 Feb p 84-91 osteogenesis, calcium metabolism, parathyroid hormone, phosphate metabolism, vitamin D, parathyroid function 1961 Apr p 56-63 [86] bone, piezoelectricity, collagen, calcium metabolism, bone adaptation to mechanical stress 1965 Oct p 18-25 [1021] evolution, horn, antler, bone, keratin, ungulates, differences between horns and antlers 1969 Apr p 114-122 [1139] air pollution, rickets, vitamin D, ultraviolet radiation, calcium
collector ions 1956 Dec p 99–110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28–35 oreopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91–100 organ-pipe analogy, stellar composition, variable stars, stellar brightness 1975 June p 66–75 organ transplant, artificial heart, heart transplant, kidney transplant, immunosupression, mechanical heart implant 1965 Nov p 38–46 [1023] cell membrane, immune response, tissue grafts, tissue-typing, self- marker hypothesis 1972 June p 28–37 [1251] Uniform Anatomical Gift Act 1973 Mar p 45 organic chemistry, isomerism, isotopes, bulk effect, paths of atoms in chemical reactions 1957 Nov p 117–126 [85] ionizing radiation, free radicals, polymerization, ionizing radiation in industrial chemistry 1959 Sept p 180–196 organic erystals, anthracene, crystallography, photosynthesis, electron transfer, exeiton, plants, conjugated aromatic hydrocarbons 1967 Jan p 86–97 organic decay, slow in deep sea 1973 Apr p 45 organic molecules, extraterrestrial life meteorites, chondrites, pangenesis, organic molecules, extraterrestrial life meteorites, chondrites, pangenesis, organic molecules, in carbonaccous chondrites, pangenesis,	chemical reactions, non-linear reactions oscillographs, musical tones 1951 May p 52-53 oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92-101 osmosis, kidney, counter-current exchange, urine, nephron, glomerulus, anatomy and physiology of the kidney 1953 Jan p 40-48 [37] active transport, passive transport, pinocytosis, phagocytosis, cytology, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167-180 [96] 'anomalous' water, 'biological' water, blood, hemoglobin, water, membrane permeability, erythrocyte, van 't Hoff law 1971 Feb p 88-96 [1213] osteoclasts, bone, calcium, cartilage, feedback, hydroxyapatite crystal 1955 Feb p 84-91 osteogenesis, calcium metabolism, parathyroid hormone, phosphate metabolism, vitamin D, parathyroid function 1961 Apr p 56-63 [86] bone, piezoelectricity, collagen, calcium metabolism, bone adaptation to mechanical stress 1965 Oct p 18-25 [1021] evolution, horn, antler, bone, keratin, ungulates, differences between horns and antlers 1969 Apr p 114-122 [1139] air pollution, rickets, vitamin D, ultraviolet radiation, calcium metabolism, epidemiology, sunlight 1970 Dec. p 76-91 [1202]
collector ions 1956 Dec p 99–110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28–35 oreopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91–100 organ-pipe analogy, stellar composition, variable stars, stellar brightness 1975 June p 66–75 organ transplant, artificial heart, heart transplant, kidney transplant, immunosupression, mechanical heart implant 1965 Nov p 38–46 [1023] cell membrane, immune response, tissue grafts, tissue-typing, self- marker hypothesis 1972 June p 28–37 [1251] Uniform Anatomical Gift Act 1973 Mar p 45 organic chemistry, isomerism, isotopes, bulk effect, paths of atoms in chemical reactions 1957 Nov p 117–126 [85] ionizing radiation, free radicals, polymerization, ionizing radiation in industrial chemistry 1959 Sept p 180–196 organic erystals, anthracene, crystallography, photosynthesis, electron transfer, exeiton, plants, conjugated aromatic hydrocarbons 1967 Jan p 86–97 organic decay, slow in deep sea 1973 Apr p 45 organic lasers, tunable laser 1969 Feb p 30–40 organic molecules, extraterrestrial life meteorites, chondrites, pangenesis, organic molecules, extraterrestrial life meteorites, chondrites, pangenesis, organic molecules, in carbonaceous chondrites 1963 Mar, p 43–49 fossil record sedimentary rock, gas chromatography, chlorophyll,	chemical reactions, non-linear reactions oscillographs, musical tones 1951 May p 52-53 oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92-101 osmosis, kidney, counter-current exchange, urine, nephron, glomerulus, anatomy and physiology of the kidney 1953 Jan p 40-48 [37] active transport, passive transport, pinocytosis, phagocytosis, cytology, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167-180 [96] 'anomalous' water, 'biological' water, blood, hemoglobin, water, membrane permeability, erythrocyte, van 't Hoff law 1971 Feb p 88-96 [1213] osteoclasts, bone, calcium, cartilage, feedback, hydroxyapatite crystal 1955 Feb p 84-91 osteogenesis, calcium metabolism, parathyroid hormone, phosphate metabolism, vitamin D, parathyroid function 1961 Apr p 56-63 [86] bone, piezoelectricity, collagen, calcium metabolism, bone adaptation to mechanical stress 1965 Oct p 18-25 [1021] evolution, horn, antler, bone, keratin, ungulates, differences between horns and antlers 1969 Apr p 114-122 [1139] air pollution, rickets, vitamin D, ultraviolet radiation, calcium metabolism, epidemiology, sunlight 1970 Dec. p 76-91 [1202]
collector ions 1956 Dec p 99–110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28–35 breopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91–100 organ-pipe analogy, stellar composition, variable stars, stellar brightness 1975 June p 66–75 organ transplant, artificial heart, heart transplant, kidney transplant, immunosupression, mechanical heart implant 1965 Nov p 38–46 [1023] cell membrane, immune response, tissue grafts, tissue-typing, selfmarker hypothesis 1972 June p 28–37 [1251] Uniform Anatomical Gift Act 1973 Mar p 45 organic chemistry, isomerism, isotopes, bulk effect, paths of atoms in chemical reactions 1957 Nov p 117–126 [85] ionizing radiation, free radicals, polymerization, ionizing radiation in industrial chemistry 1959 Sept p 180–196 organic crystals, anthracene, crystallography, photosynthesis, electron transfer, exciton, plants, conjugated aromatic hydrocarbons 1967 Jan p 86–97 organic decay, slow in deep sea 1973 Apr p 45 organic molecules, extraterrestrial life meteorites, chondrites, pangenesis, organic molecules in carbonaceous chondrites 1963 Mar, p 43–49 fossil record sedimentary rock, gas chromatography, chlorophyll, hydrocarbons, 'chemical fossils' 1967 Jan p 32–43 (308)	chemical reactions, non-linear reactions oscillographs, musical tones 1951 May p 52-53 oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92-101 osmosis, kidney, counter-current exchange, urine, nephron, glomerulus, anatomy and physiology of the kidney 1953 Jan p 40-48 [37] active transport, passive transport, pinocytosis, phagocytosis, cytology, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167-180 [96] 'anomalous' water, 'biological' water, blood, hemoglobin, water, membrane permeability, erythrocyte, van 't Hoff law 1971 Feb p 88-96 [1213] osteoclasts, bone, calcium, cartilage, feedback, hydroxyapatite crystal 1955 Feb p 84-91 osteogenesis, calcium metabolism, parathyroid hormone, phosphate metabolism, vitamin D, parathyroid function 1961 Apr p 56-63 [86] bone, piezoelectricity, collagen, calcium metabolism, bone adaptation to mechanical stress 1965 Oct p 18-25 [1021] evolution, horn, antler, bone, keratin, ungulates, differences between horns and antlers 1969 Apr p 114-122 [1139] air pollution, rickets, vitamin D, ultraviolet radiation, calcium metabolism, epidemiology, sunlight 1970 Dec p 76-91 [1207] ostrich calluses, Lysenkoism, Lamarch, accourted characteristics
collector ions 1956 Dec p 99–110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28–35 oreopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91–100 organ-pipe analogy, stellar composition, variable stars, stellar brightness 1975 June p 66–75 organ transplant, artificial heart, heart transplant, kidney transplant, immunosupression, mechanical heart implant 1965 Nov p 38–46 [1023] cell membrane, immune response, tissue grafts, tissue-typing, self- marker hypothesis 1972 June p 28–37 [1251] Uniform Anatomical Gift Act 1973 Mar p 45 organic chemistry, isomerism, isotopes, bulk effect, paths of atoms in chemical reactions 1957 Nov p 117–126 [85] ionizing radiation, free radicals, polymerization, ionizing radiation in industrial chemistry 1959 Sept p 180–196 organic erystals, anthracene, crystallography, photosynthesis, electron transfer, exciton, plants, conjugated aromatic hydrocarbons 1967 Jan p 86–97 organic decay, slow in deep sea 1973 Apr p 45 organic molecules, extraterrestrial life meteorites, chondrites, pangenesis, organic molecules, in carbonaceous chondrites 1963 Mar. p 43–49 fossil record sedimentary rock, gas chromatography, chilorophyll, hydrocarbons, 'chemical fossils' 1967 Jan p 32–43 [308] conformational isomerism hydrocarbons, chemical bond	chemical reactions, non-linear reactions oscillographs, musical tones 1951 May p 52–53 oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92–101 osmosis, kidney, counter-current exchange, unne, nephron, glomerulus, anatomy and physiology of the kidney 1953 Jan p 40–48 [37] active transport, passive transport, pinocytosis, phagocytosis, cytology, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96] 'anomalous' water, 'biological' water, blood, hemoglobin, water, membrane permeability, erythrocyte, van 't Hoff law 1971 Feb p 88–96 [1213] osteoclasts, bone, calcium, cartilage, feedback, hydroxyapatite crystal 1955 Feb p 84–91 osteogenesis, calcium metabolism, parathyroid hormone, phosphate metabolism, vitamin D, parathyroid function 1961 Apr p 56–63 [86] bone, piezoelectricity, collagen, calcium metabolism, bone adaptation to mechanical stress 1965 Oct p 18–25 [1021] evolution, horn, antler, bone, keratin, ungulates, differences between horns and antlers 1969 Apr p 114–122 [1139] air pollution, rickets, vitamin D, ultraviolet radiation, calcium metabolism, epidemiology, sunlight 1970 Dec p 76–91 [1207] ostrich calluses, Lysenkoism, Lamaruk, acquired characteristics, genotype, evolution, phenotype, mutation, speciation religion
collector ions roon ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28–35 breopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91–100 organ-pipe analogy, stellar composition, variable stars, stellar brightness 1975 June p 66–75 organ transplant, artificial heart, heart transplant, kidney transplant, immunosupression, mechanical heart implant 1965 Nov p 38–46 [1023] cell membrane, immune response, tissue grafts, tissue-typing, self- marker hypothesis 1972 June p 28–37 [1251] Uniform Anatomical Gift Act 1973 Mar p 45 organic chemistry, isomerism, isotopes, bulk effect, paths of atoms in chemical reactions 1957 Nov p 117–126 [85] ionizing radiation, free radicals, polymerization, ionizing radiation in industrial chemistry 1959 Sept p 180–196 organic erystals, anthracene, crystallography, photosynthesis, electron transfer, exciton, plants, conjugated aromatic hydrocarbons 1967 Jan p 86–97 organic decay, slow in deep sea 1973 Apr p 45 organic molecules, extraterrestrial life meteorites, chondrites, pangenesis, organic molecules in carbonaceous chondrites 1963 Mar, p 43–49 fossil record sedimentary rock, gas chromatography, chlorophyll, hydrocarbons, 'chemical fossils' 1967 Jan p 32–43 [308] conform itional isomerism hydrocarbons, chemical bond.	chemical reactions, non-linear reactions oscillographs, musical tones 1951 May p 52-53 oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92-101 osmosis, kidney, counter-current exchange, urine, nephron, glomerulus, anatomy and physiology of the kidney 1953 Jan p 40-48 [37] active transport, passive transport, pinocytosis, phagocytosis, cytology, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167-180 [96] 'anomalous' water, 'biological' water, blood, hemoglobin, water, membrane permeability, erythrocyte, van 't Hoff law 1971 Feb p 88-96 [1213] osteoclasts, bone, calcium, cartilage, feedback, hydroxyapatite crystal 1955 Feb p 84-91 osteogenesis, calcium metabolism, parathyroid hormone, phosphate metabolism, vitamin D, parathyroid function 1961 Apr p 56-63 [86] bone, piezoelectricity, collagen, calcium metabolism, bone adaptation to mechanical stress 1965 Oct p 18-25 [1021] evolution, horn, antler, bone, keratin, ungulates, differences between horns and antlers 1969 Apr p 114-122 [1139] air pollution, rickets, vitamin D, ultraviolet radiation, calcium metabolism, epidemiology, sunlight 1970 Dec p 76-91 [1207] ostrich calluses, Lysenkoism, Lamarck, acquired characteristics, genotype, evolution, phenotype, mutation, speciation, religion, orthodoxy, Darwinism, experiments in acquired characteristics
collector ions 1956 Dec p 99–110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28–35 oreopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91–100 organ-pipe analogy, stellar composition, variable stars, stellar brightness 1975 June p 66–75 organ transplant, artificial heart, heart transplant, kidney transplant, immunosupression, mechanical heart implant 1965 Nov p 38–46 [1023] cell membrane, immune response, tissue grafts, tissue-typing, self- marker hypothesis 1972 June p 28–37 [1251] Uniform Anatomical Gift Act 1973 Mar p 45 organic chemistry, isomerism, isotopes, bulk effect, paths of atoms in chemical reactions 1957 Nov p 117–126 [85] ionizing radiation, free radicals, polymerization, ionizing radiation in industrial chemistry 1959 Sept p 180–196 organic erystals, anthracene, crystallography, photosynthesis, electron transfer, exeiton, plants, conjugated aromatic hydrocarbons 1967 Jan p 86–97 organic decay, slow in deep sea 1973 Apr p 45 organic molecules, extraterrestrial life meteorites, chondrites, pangenesis, organic mole	chemical reactions, non-linear reactions oscillographs, musical tones 1951 May p 52-53 oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92-101 osmosis, kidney, counter-current exchange, urine, nephron, glomerulus, anatomy and physiology of the kidney 1953 Jan p 40-48 [37] active transport, passive transport, pinocytosis, phagocytosis, cytology, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167-180 [96] 'anomalous' water, 'biological' water, blood, hemoglobin, water, membrane permeability, erythrocyte, van 't Hoff law 1971 Feb p 88-96 [1213] osteoclasts, bone, calcium, cartilage, feedback, hydroxyapatite crystal 1955 Feb p 84-91 osteogenesis, calcium metabolism, parathyroid hormone, phosphate metabolism, vitamin D, parathyroid function 1961 Apr p 56-63 [86] bone, piezoelectricity, collagen, calcium metabolism, bone adaptation to mechanical stress 1965 Oct p 18-25 [1021] evolution, horn, antler, bone, keratin, ungulates, differences between horns and antlers 1969 Apr p 114-122 [1139] air pollution, rickets, vitamin D, ultraviolet radiation, calcium metabolism, epidemiology, sunlight 1970 Dec p 76-91 [1207] ostrich calluses, Lysenkoism, Lamarick, acquired characteristics, genotype, evolution, phenotype, mutation, speciation, religion, orthodoxy, Darwinism, experiments in acquired characteristics
collector ions 1956 Dec p 99–110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28–35 oreopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91–100 organ-pipe analogy, stellar composition, variable stars, stellar brightness 1975 June p 66–75 organ transplant, artificial heart, heart transplant, kidney transplant, immunosupression, mechanical heart implant 1965 Nov p 38–46 [1023] cell membrane, immune response, tissue grafts, tissue-typing, self- marker hypothesis 1972 June p 28–37 [1251] Uniform Anatomical Gift Act 1973 Mar p 45 organic chemistry, isomerism, isotopes, bulk effect, paths of atoms in chemical reactions 1957 Nov p 117–126 [85] ionizing radiation, free radicals, polymerization, ionizing radiation in industrial chemistry 1959 Sept p 180–196 organic erystals, anthracene, crystallography, photosynthesis, electron transfer, exeiton, plants, conjugated aromatic hydrocarbons 1967 Jan p 86–97 organic decay, slow in deep sea 1973 Apr p 45 organic molecules, extraterrestrial life meteorites, chondrites, pangenesis, organic mole	chemical reactions, non-linear reactions oscillographs, musical tones 1951 May p 52–53 oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92–101 osmosis, kidney, counter-current exchange, unne, nephron, glomerulus, anatomy and physiology of the kidney 1953 Jan p 40–48 [37] active transport, passive transport, pinocytosis, phagocytosis, cytology, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96] 'anomalous' water, 'biological' water, blood, hemoglobin, water, membrane permeability, erythrocyte, van 't Hoff law 1971 Feb p 88–96 [1213] osteoclasts, bone, calcium, cartilage, feedback, hydroxyapatite crystal 1955 Feb p 84–91 osteogenesis, calcium metabolism, parathyroid hormone, phosphate metabolism, vitamin D, parathyroid function 1961 Apr p 56–63 [86] bone, piezoelectricity, collagen, calcium metabolism, bone adaptation to mechanical stress 1965 Oct p 18–25 [1021] evolution, horn, antler, bone, keratin, ungulates, differences between horns and antlers 1969 Apr p 114–122 [1139] air pollution, rickets, vitamin D, ultraviolet radiation, calcium metabolism, epidemiology, sunlight 1970 Dec p 76–91 [1207] ostrich calluses, Lysenkoism, Lamarck, acquired characteristics, genotype, evolution, phenotype, mutation, speciation, religion, orthodoxy, Darwinism, experiments in acquired characteristics 1953 Dec p 92–99 Otto-Langen engine, internal combustion engine, atmospheric engine,
collector ions 1956 Dec p 99–110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28–35 oreopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91–100 organ-pipe analogy, stellar composition, variable stars, stellar brightness 1975 June p 66–75 organ transplant, artificial heart, heart transplant, kidney transplant, immunosupression, mechanical heart implant 1965 Nov p 38–46 [1023] cell membrane, immune response, tissue grafts, tissue-typing, self- marker hypothesis 1972 June p 28–37 [1251] Uniform Anatomical Gift Act 1973 Mar p 45 organic chemistry, isomerism, isotopes, bulk effect, paths of atoms in chemical reactions 1957 Nov p 117–126 [85] ionizing radiation, free radicals, polymerization, ionizing radiation in industrial chemistry 1959 Sept p 180–196 organic crystals, anthracene, crystallography, photosynthesis, electron transfer, exciton, plants, conjugated aromatic hydrocarbons 1967 Jan p 86–97 organic decay, slow in deep sea 1973 Apr p 45 organic molecules, extraterrestrial life meteorites, chondrites, pangenesis, organic molecules in carbonaceous chondrites 1963 Mar, p 43–49 fossil record sedimentary rock, gas chromatography, chlorophyll, hydrocarbons, 'chemical fossils' 1967 Jan p 32–43 [308] conformational isomerism hydrocarbons, chemical bond, conformation and receivaty 1965 June p 58 organic relies, Stone Age hunters peat bog, Neolithic archeology	chemical reactions, non-linear reactions oscillographs, musical tones 1951 May p 52-53 oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92-101 osmosis, kidney, counter-current exchange, urine, nephron, glomerulus, anatomy and physiology of the kidney 1953 Jan p 40-48 [37] active transport, passive transport, pinocytosis, phagocytosis, cytology, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167-180 [96] 'anomalous' water, 'biological' water, blood, hemoglobin, water, membrane permeability, erythrocyte, van 't Hoff law 1971 Feb p 88-96 [1213] osteoclasts, bone, calcium, cartilage, feedback, hydroxyapatite crystal 1955 Feb p 84-91 osteogenesis, calcium metabolism, parathyroid hormone, phosphate metabolism, vitamin D, parathyroid function 1961 Apr p 56-63 [86] bone, piezoelectricity, collagen, calcium metabolism, bone adaptation to mechanical stress 1965 Oct p 18-25 [1021] evolution, horn, antler, bone, keratin, ungulates, differences between horns and antlers 1969 Apr p 114-122 [1139] air pollution, rickets, vitamin D, ultraviolet radiation, calcium metabolism, epidemiology, sunlight 1970 Dec p 76-91 [1207] ostrich calluses, Lysenkoism, Lamarck, acquired characteristics, genotype, evolution, phenotype, mutation, speciation, religion, orthodoxy, Darwinism, experiments in acquired characteristics 1953 Dec p 92-99 Otto-Langen engine, internal combustion engine, atmospheric engine, stratified charge, hystory of Otto engine
collector ions 1956 Dec p 99–110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28–35 preopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91–100 organ-pipe analogy, stellar composition, variable stars, stellar brightness 1975 June p 66–75 organ transplant, artificial heart, heart transplant, kidney transplant, immunosupression, mechanical heart implant 1965 Nov p 38–46 [1023] cell membrane, immune response, tissue grafts, tissue-typing, self- marker hypothesis 1972 June p 28–37 [1251] Uniform Anatomical Gift Act 1973 Mar p 45 organic chemistry, isomerism, isotopes, bulk effect, paths of atoms in chemical reactions 1957 Nov p 117–126 [85] ionizing radiation, free radicals, polymerization, ionizing radiation in industrial chemistry 1959 Sept p 180–196 organic erystals, anthracene, crystallography, photosynthesis, electron transfer, exciton, plants, conjugated aromatic hydrocarbons 1967 Jan p 86–97 organic decay, slow in deep sea 1973 Apr p 45 organic molecules, extraterrestrial life meteorites, chondrites, pangenesis, organic molecules in carbonaceous chondrites 1963 Mar. p 43–49 fossil record sedimentary rock, gas chromatography, chlorophyll, hydrocarbons, 'chemical fossils' 1967 Jan p 32–43 [308] conformation and reactivity 1970 Jan p 58–70 [331] evolution early life on Larth 1965 June p 58 organic relies, Stone Age hunters peat bog. Neolithic archeology	chemical reactions, non-linear reactions oscillographs, musical tones 1951 May p 52–53 oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92–101 osmosis, kidney, counter-current exchange, unne, nephron, glomerulus, anatomy and physiology of the kidney 1953 Jan p 40–48 [37] active transport, passive transport, pinocytosis, phagocytosis, cytology, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96] 'anomalous' water, 'biological' water, blood, hemoglobin, water, membrane permeability, erythrocyte, van 't Hoff law 1971 Feb p 88–96 [1213] osteoclasts, bone, calcium, cartilage, feedback, hydroxyapatite crystal 1955 Feb p 84–91 osteogenesis, calcium metabolism, parathyroid hormone, phosphate metabolism, vitamin D, parathyroid function 1961 Apr p 56–63 [86] bone, piezoelectricity, collagen, calcium metabolism, bone adaptation to mechanical stress 1965 Oct p 18–25 [1021] evolution, horn, antler, bone, keratin, ungulates, differences between horns and antlers 1969 Apr p 114–122 [1139] air pollution, rickets, vitamin D, ultraviolet radiation, calcium metabolism, epidemiology, sunlight 1970 Dec p 76–91 [1207] ostrich calluses, Lysenkoism, Lamarck, acquired characteristics genotype, evolution, phenotype, mutation, speciation, religion, orthodoxy, Darwinism, experiments in acquired characteristics 1953 Dec p 92–99 Otto-Langen engine, internal combustion engine, atmospheric engine, stratified charge, history of Otto engine 1967 Mar p 102–112 out-patient care, hospital care medical care, inspatient care medical
collector ions ron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28–35 oreopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91–100 organ-pipe analogy, stellar composition, variable stars, stellar brightness 1975 June p 66–75 organ transplant, artificial heart, heart transplant, kidney transplant, immunosupression, mechanical heart implant 1965 Nov p 38–46 [1023] cell membrane, immune response, tissue grafts, tissue-typing, self- marker hypothesis 1972 June p 28–37 [1251] Uniform Anatomical Gift Act 1973 Mar p 45 organic chemistry, isomerism, isotopes, bulk effect, paths of atoms in chemical reactions 1957 Nov p 117–126 [85] ionizing radiation, free radicals, polymerization, ionizing radiation in industrial chemistry 1959 Sept p 180–196 organic crystals, anthracene, crystallography, photosynthesis, electron transfer, exciton, plants, conjugated aromatic hydrocarbons 1967 Jan p 86–97 organic decay, slow in deep sea 1967 Jan p 86–97 organic molecules, extraterrestrial life meteorites, chondrites, pangenesis, organic molecules, extraterrestrial file meteorites, chondrites, pangenesis, organic molecules in carbonaceous chondrites 1963 Mar, p 43–49 fossil record sedimentary rock, gas chromatography, chlorophyll, hydrocarbons, 'chemical fossils' 1967 Jan p 32–43 [308] conformation and reactivity 1967 Jan p 35–43 [308] conformation and reactivity 1970 Jan p 58–70 [331] evolution early life on Larth 1965 June p 58 organic relies, Stone Age hunters peat bog, Neolithic archeology 1952 May p 20–25 peat bog, archeology, weapons deposits, Danish histors	chemical reactions, non-linear reactions oscillographs, musical tones oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92–101 osmosis, kidney, counter-current exchange, unne, nephron, glomerulus, anatomy and physiology of the kidney 1953 Jan p 40–48 [37] active transport, passive transport, pinocytosis, phagocytosis, cytology, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96] 'anomalous' water, 'biological' water, blood, hemoglobin, water, membrane permeability, erythrocyte, van 't Hoff law 1971 Feb p 88–96 [1213] osteoclasts, bone, calcium, cartilage, feedback, hydroxyapatite crystal 1955 Feb p 84–91 osteogenesis, calcium metabolism, parathyroid hormone, phosphate metabolism, vitamin D, parathyroid function 1961 Apr p 56–63 [86] bone, piezoelectricity, collagen, calcium metabolism, bone adaptation to mechanical stress 1965 Oct p 18–25 [1021] evolution, horn, antler, bone, keratin, ungulates, differences between horns and antlers 1969 Apr p 114–122 [1139] air pollution, rickets, vitamin D, ultraviolet radiation, calcium metabolism, epidemiology, sunlight 1970 Dec p 76–91 [1207] ostrich calluses, Lysenkoism, Lamarck, acquired characteristics, genotype, evolution, phenotype, mutation, speciation, religion, orthodoxy, Darwinism, experiments in acquired characteristics 1953 Dec p 92–99 Otto-Langen engine, internal combustion engine, atmospheric engine, stratified charge, history of Otto engine 1967 Mar p 102–112 out-patient care, hospital care medical care, in-patient care, medical technology, medical history, triage
collector ions 1956 Dec p 99–110 iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28–35 preopithecus, primates, human evolution, orepithecus in lineage of Homo sapiens 1956 June p 91–100 organ-pipe analogy, stellar composition, variable stars, stellar brightness 1975 June p 66–75 organ transplant, artificial heart, heart transplant, kidney transplant, immunosupression, mechanical heart implant 1965 Nov p 38–46 [1023] cell membrane, immune response, tissue grafts, tissue-typing, self- marker hypothesis 1972 June p 28–37 [1251] Uniform Anatomical Gift Act 1973 Mar p 45 organic chemistry, isomerism, isotopes, bulk effect, paths of atoms in chemical reactions 1957 Nov p 117–126 [85] ionizing radiation, free radicals, polymerization, ionizing radiation in industrial chemistry 1959 Sept p 180–196 organic erystals, anthracene, crystallography, photosynthesis, electron transfer, exciton, plants, conjugated aromatic hydrocarbons 1967 Jan p 86–97 organic decay, slow in deep sea 1973 Apr p 45 organic molecules, extraterrestrial life meteorites, chondrites, pangenesis, organic molecules in carbonaceous chondrites 1963 Mar. p 43–49 fossil record sedimentary rock, gas chromatography, chlorophyll, hydrocarbons, 'chemical fossils' 1967 Jan p 32–43 [308] conformation and reactivity 1970 Jan p 58–70 [331] evolution early life on Larth 1965 June p 58 organic relies, Stone Age hunters peat bog. Neolithic archeology	chemical reactions, non-linear reactions oscillographs, musical tones 1951 May p 52-53 oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92-101 osmosis, kidney, counter-current exchange, urine, nephron, glomerulus, anatomy and physiology of the kidney 1953 Jan p 40-48 [37] active transport, passive transport, pinocytosis, phagocytosis, cytology, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167-180 [96] 'anomalous' water, 'biological' water, blood, hemoglobin, water, membrane permeability, erythrocyte, van 't Hoff law 1971 Feb p 88-96 [1213] osteoclasts, bone, calcium, cartilage, feedback, hydroxyapatite crystal 1955 Feb p 84-91 osteogenesis, calcium metabolism, parathyroid hormone, phosphate metabolism, vitamin D, parathyroid function 1961 Apr p 56-63 [86] bone, piezoelectricity, collagen, calcium metabolism, bone adaptation to mechanical stress 1965 Oct p 18-25 [1021] evolution, horn, antler, bone, keratin, ungulates, differences between horns and antlers 1969 Apr p 114-122 [1139] air pollution, rickets, vitamin D, ultraviolet radiation, calcium metabolism, epidemiology, sunlight 1970 Dec p 76-91 [1207] ostrich calluses, Lysenkoism, Lamarck, acquired characteristics, genotype, evolution, phenotype, mutation, speciation, religion, orthodoxy, Darwinism, experiments in acquired characteristics 1953 Dec p 92-99 Otto-Langen engine, internal combustion engine, atmospheric engine, stratified charge, hystory of Otto engine

1975 Sept p 130-140

perant conditioning, learning, pets, babies, how to teach animals 1951 Dec p 26-29 [423]	motion perception, neuropsychology, relative vs absolute motion 1959 July p 56-60 [493]
conditioned reflex, neurosis, Pavlov, psychology, thyroidectomy, stress, emotional behavior, neurosis, conditioned reflex is shown to be a	human eye, vision, sensory perception, 'after effects', visual cortex 'cortical satiation' 1962 Jan p 44-49
neurosis 1954 Jan p 48-57 [418]	visual perception, illusion of movement, apparent movement, motion
teaching machine, inductive reasoning, rhythm, education, self-	perception 1964 Oct p 98–106 [487]
teaching by small, rigorous steps 1961 Nov p 90–102	visual perception, size constancy, distortion, pictures as objects illusions arise from normally useful mechanisms
chimpanzee, symbolic language, learning, binary numbers, animal behavior, chimpanzee learning arithmatic 1964 May p 98–106 [484]	1968 Nov p 66-76 [517]
binocular vision, infant development, visual perception, developmental	fortification illusions, migraine headaches, neurophysiology
psychology, information processing, space, size, shape perception in	1971 May p 88-96 (3.6)
human infants 1966 Dec p 80-92 [502]	depth reversal, Necker cube, reversing figures, visual perception 1971 Dec p 62-71 [540]
operations research, systems analysis, decision theory	contour perception, contrast perception, Mach bands, neuronal
1951 Mar p 15-17 queues, traffic, mathematics, computer time sharing, applications of	response visual percention. Craik-O'Brien effect
queuing theory 1968 Aug p 96–103	1972 June p 90-101 [343]
U S plans 1948 June p 24	color fusion, color scission, perceptual transparency, physical
'think tanks' criticized 1972 Aug p 44	transparency, transparency, visual perception 1974 Apr p 90-98 [559]
operations researchers, assert professional identity 1953 Jan p 31	Trackaria menta manantian of nictures psychology, visual
operator-repressor system, phagocytosis, gene expression, repressor molecules, lac repressor, lambda repressor, isolation of two gene	percention 1974 July p 30-104 [500]
repressors, how they work 1970 June p 36-44 [1179]	atmospheric optics, mirages, refraction, Fata Morgana, walking on 1976 Jan p 102-111
DNA operator, DNA repressor, gene expression, gene regulation, host-	water 1970 Jan p 102 11
restriction endonuclease 1976 Jan p 64-76 [1333]	e
ophthalmoscope, conservation law, Helmholtz resonators, matter	1976 Dec D 42-401511
conservation, science history, Hermann von Helmholtz, biography 1958 Mar p 94-102	Titchener illusion 1961 Apr p 76
opiate-directed behavior, morphine, drug addiction, withdrawal	optical interference coatings, coated optics, light reflection, light
syndrome, self-addiction in rat 1965 Feb p 80-88	transmission, dielectric mirrors, laser, interferometry 1970 Dec p 58-75
opiate receptors, brain function, drug action, drug addiction,	about model high energy physics liquid
endodorphins, enkephalins, internal opiates, brain endocrinology 1977 Mar p 44-56	drop model, charge exchange, spin-oton totte, teaching
opium, analgesics, morphine, poppy, heroin, codeine, Bentley's	proton, neutron, structure of the nucleus
compound, drug action, search for strong, safe analgesic	Gothic cathedrals, architectural engineering, Bourges cathedral 1972 Nov p 90-99 Chartres cathedral
1966 Nov p 131–136 [304]	Chartes camedian microwaves Maxwell's equations, traveling-wave tune
opossum, marsupial, death-simulation, animal behavior, playing possum	klystron, magnetron, waveguides, communication, radar 1952 Aug p 43-51
by opossum and other animals 1950 Jan p 52-55 marsupial, folklore, natural history 1953 June p 88-94	1,722
'opossum state', elecroencephalograph of opossum playing 'possum 1964 Dec p 64	optical pumping, microwave spectroscopy, spectroscopy, photon quantum jumps, technique and uses of optical pumping 1960 Oct p 72-80
'Oppenheimer case', arms control, hydrogen bomb, debate over 'super' 1975 Oct p 106-113	optical resolution, insect eye, compound eye, color perception, insect 1948 July p 42-45 behavior 1948 Mar. p. 44-47
loyalty and security, A E C, leaks from Oppenheimer hearing 1954 June p 44	X-ray, microscopy, X-ray microscope projected 1976 Dec p 53
loyalty and security, A E C, Oppenheimer a security risk 1954 July p 42	optical transistor, optical analogue of junction transistor
loyalty and security, A E C, Oppenheimer verdict sustained	t of Janea Newton
loyalty and security, A E.C., oppermental 1954 Aug p 36 loyalty and security, A E.C., boycott of Oppenheimer boycott	the stanfarance electromagnetic
1555 May P	diffraction, light, wave-particle duality, interference issue on light waves, photon emission, introduction to single-topic issue on light p 50 59 1968 Sept p 50 79
opsin, electroretinography, vitamin A deficiency, night blindness,	1974 July p 60 /3
rhodonsin, bright-light exposure, retinus pigmentosa, ingo	glory, light diffraction, rainbow glass, lens aberrations photographic lenses 1976 Aug p 72-83
Official State of Adams of Agencies State of Agencies A	glass, iens adeliations photographic
	halos, Sun dogs, ice crystals, atmospheric naros 1978 Apr p 144-152 [3006]
optic chiasm, binocular vision, depth perception, eye, neurophysiology, 1972 Aug p 84-95 [1255]	ultrasonics, medical diagnosis, echo-sounding, computer-assisted imaging, sonar, imaging internal organs by ultrasound 1978 May p. 98-112 [1389]
stereopsis, visual cortex 1972 Aug p o4433 [1223] optic nerve, horseshoe crab, vision, Limulus, ommatidia, visual optic nerve, horseshoe crab, vision, Limulus, ommatidia, visual	
perception, horseshoe crab as laboratory animal	relativity theory, implications of Fitzgerald contraction 1960 July p 74
	the seale crestals tapetum
eye, visual cortex, retina, vision, organization of sight into vision [963 Nov p 54-62 [168]	lucidum camouflage 1971 Jn p 64 72 [1209]
locar laser-light pressure, radiation	optics without lens, Moiré patterns, Fresnel rings properties and uses optics without lens, Moiré patterns, Fresnel rings properties and uses 1963 May p. 54-63 [299]
optical bottle', gas separation, faser, faser and molecular beams pressure, isotope separation, atomic and molecular beams 1972 Feb p 62–71	optogram, eye, rod cells cone cells retina ins rhodopsin camera
t to manufaction, light	anatomy and physiology of the eve, camera as metaphor 1950 Aug p 32 41 [44]
optical circuits, integrated circuits, laser light manipulation, light propagation in thin films, thin-film optical devices, photons instead 1974 Apr p 28-35	anatomy and physiology of the eve, camera as intelligent and physiology of the eve, camera as intelligent property and physiology of
propagation in thin films, thin-film optical devices, placed propagation in the films optical devices, placed propagation in the films optical devices propagation in the films optical de	orb web, arachind spiders spider webs, evolution 1960 Apr p 114 124 orbital motion, glaciation Earth eccentricities of motion Milanko, itch orbital motion, glaciation planel and sidered time tables
of electrons in circuits optical communication, laser, holography, surveying, welding, light, laser optical communication, laser, holography, surveying, welding, light, laser	forecast correlating glacial and sidereal time tables
technology glass fiber, ceramics amorphous solid,	integral and constitution and early early and early and early and early and early and early and earl
	comet comet tails spectroscops, composition and only nel corners 1951 July p. 22, 27
properties of glass as 'undercooled liquid properties of glass as 'undercooled liquid optical illusion, visual perception, 'Ames room', distance perception, optical illusion, visual perception, illusions as clues to organization	solar eel pse Earth moon 1953 Dr. p 2 - 33
optical illusion, visual perception, 'Ames room', distance perception motion perception, size perception, illusions as clues to organization 1951 Aug p 50-55 of perception	Earth satellite space exploration

.

artificial satellite, telemetry, rocket launcher, plans for US 10-pound	organic superconductor, energy transfer, superconductors, electron pairs, proposal for room-temperature superconductor 1965 Feb p 21-27
(pre-Sputnik) satellite 1956 Nov p 41-47 artificial satellites, artificial satellites, forecast of lunar rocket	Organization of Petroleum Exporting Countries, see OPEC
expeditions 1957 June p 47–53	organometallic compounds, chelation, metal ions, sequestering, ring
artificial satellite, satellite, space exploration, Sputnik, tracking station,	compounds, porphyrin ring, metal-poisoning antidote, chemical
first artificial Earth satellite 1957 Dec p 37–43	separation 1953 June p 68–76 origins of life, Miller-Urey experiment, high-energy radiation,
artificial satellite, interferometry, antennae, radio astronomy, tracking station, satellite tracking 1958 Jan p 23–29	heterotrophs, fermentation, photosynthesis, autotrophs
station, satellite tracking 1958 Jan p 25-29 Neptune, solar system, Pluto, Pluto as escaped Neptunian satellite	1954 Aug p 44–53 [47]
1959 Apr p 86–100 [295]	bacteria, blue-green algae, fossil cells, evolution, Gunflint cherts,
artificial satellite, ionosphere, climate, aurora borealis, Van Allen belts,	Precambrian rocks, prokaryotic cells, oldest fossils
meteorology, solar particle influence on Earth atmosphere	1971 May p 30-42 [395] benzene, carbon chemistry, chemical accelerators, high-energy carbon
1959 Aug p 37-43 [851] interplanetary navigation, spacecraft, rocket, communication	reactions 1975 Jan p 72–79
technology, navigation, technology of space navigation	extraterrestrial intelligence, interstellar communication, planetary
1960 Mar p 64–73	systems, cyclops project 1975 May p 80-89 [347]
artificial satellite, space exploration, Mercury, re-entry vehicle,	fossil cells in 3-billion-year-old rock 1956 July p 50 synthesis of adenine in electron beam 1963 Aug p 52
ablation, re-entry corridor, re-entry from space 1961 Jan p 49-57 artificial satellite, communication satellite, telecommunication, Echo II	synthesis of adenine in electron beam 1963 Aug p 52 protein synthesis, thermal theory of biological origins
satellite, radio, satellite communication systems, consideration of	1964 Apr p 64
alternatives 1961 Oct p 90–102	Orion nebula, nebulae, stellar evolution, ultraviolet radiation, hydrogen
Mariner 2, space exploration, telemetry, Venus, navigation, high-	density, dating interstellar bodies 1965 Feb p 90–101
resolution studies of Venus 1963 July p 70–84	ornithology, evolution, speciation, guillemot, skua, melanism, avian evolution 1957 May p 124-134
artificial satellite, X-ray astronomy, satellite-emplaced telescope 1963 Aug p 28–37	birds, geographical distribution, speciation, behavioral adaptation, bird
Earth, stellar aberration, Gamma Draconis, discovery of stellar	migration, adaptation, provinciality of birds 1957 July p 118-128
aberration by James Bradley 1964 Mar p 100-108	animal behavior, incubator birds, eggs, chicken, fowl, hatching eggs in
artificial satellite, geomagnetism, solar wind, magnetosphere, aurora,	hot places 1959 Aug p 52-58 crow, signal behavior, animal behavior, language of crows
magnetometer 1965 Mar p 58-65 asteroids, Icarus, meteorites 1965 Apr p 106-115	1959 Nov p 119–131
artificial satellite, Earth, geoid, equatorial bulge, shape of the Earth	soaring, wind velocity, thermal cells, air currents, aerodynamics, bird
1967 Oct p 67-76 [873]	flight, flight of soaring birds 1962 Apr p 130–140
Apollo project, laser reflection, moon, lunar-ranging experiment,	animal behavior, Antarctica, skua, south polar skua 1964 Feb p 94-100
corner reflector, Earth-Moon distance measurement 1970 Mar p 38-49	egg color-code 1958 Aug p 54
Manner 6, Mars, Manner 7, telemetry, polar cap, television camera,	'silent' flight mechanism of owl 1962 Apr p 78
cratering, surface pictures and map of Mars 1970 May p 26-41	animal communication, Lanarius erythrogaster song 1963 May p 80
orbiting observatories, two of them, manned, by 1975 1966 Apr p 48	orthodoxy, Lysenkoism, Lamarck, acquired characteristics, genotype, evolution, phenotype, mutation, ostrich calluses, speciation, religion,
orchids, fungi, symbiosis, mycorrhiza, plant evolution, adaptation, adaptive ability of orchids 1966 Jan p 70-78	Darwinism, experiments in acquired characteristics
ordinal numbers, cardinal numbers, child development, mathematics	1953 Dec p 92-99
education, mathematics history, number concepts	oryx, cichlid fish, marine iguana, rattlesnake, fighting behavior, animal
1973 Mar p 101-109 ore beneficiation, flotation, mineral separation, surfactant, bubbles,	behavior, comparative psychology 1961 Dec p 112–122 [470] oscillating reagents, chemical reaction, computer modeling, rotating
collector ions 1956 Dec p 99–110	chemical reactions, non-linear reactions 1974 June p 82-95
iron ore, mining, low-grade ores, hematite, taconite 1968 Jan p 28-35	oscillographs, musical tones 1951 May p 52-53
oreopithecus, primates, human evolution, orepithecus in lineage of Homo	oscilloscope, cathode-ray tube, Crookes tube, vacuum tube, Ferdinand Braun's invention 1974 Mar p. 92-101
sapiens 1956 June p 91-100 organ-pipe analogy, stellar composition, variable stars, stellar brightness	Braun's invention 1974 Mar p 92-101 osmosis, kidney, counter-current exchange, urine, nephron, glomerulus,
1975 June p 66–75	anatomy and physiology of the kidney 1953 Jan p 40-48 [37]
organ transplant, artificial heart, heart transplant, kidney transplant,	active transport, passive transport, pinocytosis, phagocytosis cytology
immunosupression, mechanical heart implant 1965 Nov p 38-46 [1023]	cell membrane, fertilization, functions of cell membranes
cell membrane, immune response, tissue grafts, tissue-typing self-	1961 Sept p 167-180 [96] 'anomalous' water, 'biological' water, blood, hemoglobin, water,
marker hypothesis 1972 June p 28-37 [1251]	membrane permeability, erythrocyte, van 't Hoff law
Uniform Anatomical Gift Act 1973 Mar p 45 organic chemistry, isomerism isotopes, bulk effect, paths of atoms in	1971 Feb p 88–96 [1213] osteoclasts, bone, calcium, cartilage, feedback, hydroxyapatite crystal
chemical reactions 1957 Nov p 117–126 [85]	1955 Feb p 84-91
ionizing radiation free radicals, polymerization, ionizing radiation in	osteogenesis, calcium metabolism, parathyroid hormone, phosphate
industrial chemistry 1959 Sept p 180–196	metabolism, vitamin D, parathyroid function
organic crystals, anthracene, crystallography, photosynthesis, electron transfer, exciton, plants conjugated aromatic hydrocarbons	1961 Apr p 56-63 [86] bone, piezoelectricity, collagen, calcium metabolism, bone adaptation
1967 Jan p 86–97	to mechanical stress 1965 Oct p. 18, 25 (1021)
organic decay, slow in deep sea 1973 Apr p 45 organic lasers, tunable laser 1969 Feb p 30-40	evolution, norn, antier, bone, keratin, ungulates, differences between
organic molecules, extraterrestrial life, meteorites, chondrites, paneenesis,	horns and antiers 1969 Apr p 114-122 [1139] air pollution, rickets vitamin D, ultraviolet radiation, calcium
organic molecules in carbonaceous chondrites 1963 Mar. p. 43-49	metabolism, epidemiology, sunlight 1970 Dec p 76–91 [1207]
fossil record sedimentary rock, gas chromatography, chlorophyll hydrocarbons 'chemical fossils' 1967 Jan. p. 32–43 [308]	ostrich calluses, Lysenkoism, Lamarch, acquired characteristics
conformational isomerism, hydrocarbons, chemical bond	genotype, evolution, phenotype, mutation, speciation, religion
Conformation and reactivity 1970 fam n 59 70 (331)	orthodoxy, Darwinism experiments in acquired characteristics
evolution early life on Earth 1965 June p 58 organic relies. Stone Age hunters peat bog. Neolithic archeology	Otto-Langen engine, internal combustion engine, atmospheric engine,
1057 Max == 70.75	manned charge, mixing of this engine 1007 14.
peat boy and cology weapons deposits. Danish history	technology, medical history trace
1953 Oct p 84-88	outer planets, Neptune Pluto Saturn solar system Uranus
	1975 Sept. p. 130-140

...

archeology, reconstruction of beson hunt kill burch error

Solar system Proper In mesonan	
solar system, Pioneer 10 mission 1972 Jan. p 46	oxygen debt, ATP, muscle, glycolysis, aerobic metabolism factic acid
oven, bainstics, calone heat theory, science history, Rumford, heat as	formation aerobic metabolism acrobic metabolism raciic acro
motion, benjamin Thomson, biography 1960 Oct p 150 160	mechanisms in muscle 1972 Mar n. 84-91 (1990
Ovshinsky devices, amorphous semiconductors, nonperiodic systems,	oxygen injection, steel production, open hearth furnace, basic oxygen
quantum mechanics, semiconductor technology, switching	TIPOPES 1070 A 11
phenomena 1977 May p 36-48 [362]	oxygen isotopes, temperature measurement, foramınıfera abyssal
ovulation, twins, identical twins, fraternal twins, estrin, physiology of	Sediments, nateontology glaciation, climate change measurement
twinning 1951 Jan. p 48-51	of ancient temperatures 1958 Feb p 54-(
contraception, birth control, reproduction, nidation, fertilization	oxygen level. Atlantic Ocean Gulf Stream ocean circulation salimits
1954 Apr p 31–34	ocean temperature, Corrolis effect, 'anatomy' of the Atlantic
ovulation timing, male fertility, spermatozoon count, birth control	1055 Ian n 30_35 [8]
1950 May p 16–19	atmosphere 1970 Oct p 5
ovum, cell anatomy, spermatozoon, virus, science history, cytology,	oxygen starvation, metabolism, erythrocyte, acclimatization attitude
muscle cell, plant cell, connective tissue cell, introduction to single- topic issue on the living cell 1961 Sept. p. 50-61 1901	adaptation 1955 Dec p 58-6
topic issue on the living cell 1961 Sept p 50-61 [90]	ox) gen storage, asphyxia, breathing, diving bradycardia, respirator, gas
cell differentiation, tissue specialization, 'lampbrush' chromosome,	exchange, diving mammals, diving birds, hibernation, selective
embryonic development, zygote, fertilization, clone, cytology, how cells specialize 1961 Sept p. 124-140	ischemia, human physiology, redistribution of oxygenated blood and
cells specialize 1961 Sept p 124–140 embryonic development, oocytogenesis, meiosis, mitosis, mammalian	'master switch of life' 1963 Dec p 92-10
eggs, chromosomal anomalies, in vitro fertilization	ox) gen transfer, lung, gill, carbon dioxide, gas exchange, water breathing
1966 Aug p 72–81 [1047]	by mammals, breathing animal experiments in water-breathing
mitosis, fertilization, embryonic development, meiosis, blastocyst,	1968 Aug p 66-74 [1123
human embryos in the laboratory 1970 Dec p 44-54 [1206]	oxygen transport, ceruloplasmin, hemocyanin, enzymes, copper
oxen, transportation, wheeled vehicles, carts, wagons, Transcaucasus,	deficiency, cytochrome oxidase, copper biochemistry, Wilson's disease, tyrosinase 1968 May p 102-11-
Mesopotamia, origin of wheeled transport 5,000 years ago	0/ 0
1968 July p 82–90	oysters, natural history 1953 Nov p 86-91 ozone, air pollution, smog, 'blue haze', atmospheric inversion
oxidation, rust, technetium, corrosion, studies in corrosion	particulates, peroxides photochemistry 1955 May p 62-72
1956 May p 35-39	atmospheric tides, Earth, ultraviolet radiation, ultraviolet-radiation
oxidation membrane, ATP synthesis, mitochondria, electron transfer,	hypothesis 1962 Dec p 48-55
mutochondrion, proposed structure of mutochondrion	air pollution, smog, automobile emissions, urban transport air
1964 Jan p 63-74	pollution control in Los Angeles 1964 Jan p 24-31 [618]
oxidation of food, desert rat, kidney, water balance, how banner-tailed	catalysis, corona discharge, free radicals, polymerization, corona
kangaroo rat survives without water 1953 July p 73-78 [1050]	chamietre water nurification, hydrocarbon cracking
oxidation-reduction reactions, chloroplast, oxygen cycle, photosynthesis,	1965 June p 90-98
biosphere, aerobic metabolism, ozone, geological record, oxygen-	airglow, atmosphere, ionosphere, solar radiation, oxygen atoms upper
carbon balance 1970 Sept p 110-123 [1192]	atmaculance laboratory remulation atomic energy levels
oxidative phosphorylation, cytology, energy transformation, ATP,	atmosphere, taouratory simulation, atomac energy 102–110
mutochondrion, citric-acid cycle, glycolysis, membrane, energy	chloroplast, oxygen cycle, photosynthesis, biosphere, aerobic
transformation in the cell 1960 May p 102–114	metabolism, oxidation-reduction reactions, geological record oxygen-carbon balance 1970 Sept p 110-123 [1192]
ATP, chloroplast, mitochondrion, photosynthesis, cell metabolism,	oxygen-carbon balance 1970 Sept p 110-123 [172]
	al mater and material and are are all attention carbon dioxide
glucogenesis, citric-acid cycle, glycolysis, cytology, cellular	climate air pollution, atmospheric circulation, carbon dioxide
transformation of energy 1961 Sept p 62-73 [91]	'window', particulates, temperature of Earth, human activity and
transformation of energy 1961 Sept p 62-73 [91] algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in	climate air pollution, atmospheric circulation, carbon dioxide 'window', particulates, temperature of Earth, human activity and climatic change 1971 Jan p 32-42 [894]
transformation of energy 1961 Sept p 62-73 [91] algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88-100 [122]	'window', particulates, temperature of Earth, human activity and
transformation of energy 1961 Sept p 62-73 [91] algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88-100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell	'window', particulates, temperature of Earth, human activity and climatic change 1971 Jan p 32-42 [894]
transformation of energy 1961 Sept p 62-73 [91] algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88-100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32-39 [1101]	'window', particulates, temperature of Earth, human activity and
transformation of energy 1961 Sept p 62-73 [91] algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88-100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32-39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology,	'window', particulates, temperature of Earth, human activity and climatic change 1971 Jan p 32-42 [894]
transformation of energy 1961 Sept p 62-73 [91] algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88-100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32-39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84-94	'window', particulates, temperature of Earth, human activity and climatic change 1971 Jan p 32-42 [894] Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones
transformation of energy 1961 Sept p 62-73 [91] algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88-100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32-39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84-94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46-57 [1315]	'window', particulates, temperature of Earth, human activity and climatic change 1971 Jan p 32-42 [894] Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones 1955 July p 36-41
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast,	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean 1958 Nov. p. 36-41 [814]
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean 1955 Nov p 36-41 [814]
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383]	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust deep-sea drilling ocean evolution plate Pacific plate, Earth crust deep-sea drilling ocean evolution plate
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust deep-sea drilling ocean evolution plate tectonics, sedimentary cores voyager of the Glomar Challenger 1973 Nov p 102-112 [911]
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] ovide semiconductors, magnetic core, integrated circuits, computer memory, microelectronics, advent of integrated circuit	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust deep-sea drilling ocean evolution plate tectonics, sedimentary cores voyager of the Glomar Challenger 1973 Nov p 102-112 [911]
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuit, computer memory, microelectronics, advent of integrated circuit semiconductor memories	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust deep-sea drilling ocean evolution plate tectonics, sedimentary cores voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception touch olfactory receptors taste
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectronics, advent of integrated circuit semiconductor memores 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust deep-sea drilling ocean evolution plate tectonics, sedimentary cores voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception touch olfactory receptors taste receptors mechanoreceptors pain receptors biological transducers 1960 Aug p. 98-108 [70]
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectronics, advent of integrated circuit semiconductor memories 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84–95	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust deep-sea drilling ocean evolution plate tectonics, sedimentary cores voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception touch olfactory receptors taste receptors mechanoreceptors pain receptors biological transducers 1960 Aug p 98-108 [70] pain, dolorimeter, what is pain? 1953 Mar p 59 66
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectronics, advent of integrated circuit semiconductor memories 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84–95	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust deep-sea drilling ocean evolution plate tectonics, sedimentary cores voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception touch olfactory receptors taste receptors mechanoreceptors pain receptors biological transducers 1960 Aug p 98-108 [70] pain, dolorimeter what is pain? 1953 Mar p 59 66
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectronics, advent of integrated circuit semiconductor memores 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84–95 oxygen, atmosphere, escape velocity, photosynthesis, volcanoes water of crystallization, nitrogen origin and evolution of Earth's atmosphere 1953 Aug p 82–86 [824]	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust deep-sea drilling ocean evolution plate tectonics, sedimentary cores voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception touch olfactory receptors taste receptors mechanoreceptors pain receptors biological transducers 1960 Aug p 98-108 [70] pain, dolorimeter what is pain? 1953 Mar p 59 66 anesthesia cocaine, procaine, surgery, medical research neuropharmacology pharmacology psychiatry, research in pain p 70 82
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectronics, advent of integrated circuits, computer semiconductor memores 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84–95 oxygen, atmosphere, escape velocity, photosynthesis, volcanoes water of crystallization, nitrogen origin and evolution of Earth's atmosphere 1953 Aug p 82–86 [824] phlogiston, chemistry, Priestley, life and work of Joseph Priestley	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust deep-sea drilling ocean evolution plate tectonics, sedimentary cores voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception touch olfactory receptors taste receptors mechanoreceptors pain receptors biological transducers 1960 Aug p 98-108 [70] pain, dolorimeter what is pain? 1953 Mar p 59 68 anesthesia cocaine, procaine, surgery, medical research in pun suppression 1957 Jan p 70 82
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuit, computer memory, microelectronics, advent of integrated circuit, semiconductor memories 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84–95 oxygen, atmosphere, escape velocity, photosynthesis, volcanoes water of crystallization, nitrogen origin and evolution of Earth's atmosphere 1953 Aug p 82–86 [824] phlogiston, chemistry, Priestley, life and work of Joseph Priestley 1954 Oct p 68–73	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust deep-sea drilling ocean evolution plate tectonics, sedimentary cores voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception touch olfactory receptors taste receptors mechanoreceptors pain receptors biological transducers 1960 Aug p 98-108 [70] pain, dolorimeter what is pain? 1953 Mar p 59 68 anesthesia cocaine, procaine, surgery, medical research in pun suppression psychology neuropsychology, cultural influence on pain 1957 Jan p 70 82 perception psychology neuropsychology, cultural influence on pain 1961 Feb p 41-49 [457]
algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuit, computer memory, microelectronics, advent of integrated circuit, semiconductor memories 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84–95 oxygen, atmosphere, escape velocity, photosynthesis, volcanoes water of crystallization, nitrogen origin and evolution of Earth's atmosphere 1953 Aug p 82–86 [824] phlogiston, chemistry, Priestley, life and work of Joseph Priestley 1954 Oct p 68–73 premature infants retrolental fibroplasia epidemiology, infant	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust deep-sea drilling ocean evolution plate tectonics, sedimentary cores voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception touch olfactory receptors taste receptors mechanoreceptors pain receptors biological transducers 1960 Aug p 92-108 [70] pain, dolorimeter what is pain? 1953 Mar p 59 68 anesthesia cocaine, procaine, surgery, medical research neuropharmacology pharmacology psychiatry, research in pain suppression 1957 Jan p 70 82 perception psychology neuropsychology, cultural influence on pain perception 1961 Feb p 41-49 [457]
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectronics, advent of integrated circuits semiconductor memories 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1953 Sept p 84–95 oxygen, atmosphere, escape velocity, photosynthesis, volcanoes water of crystallization, nitrogen origin and evolution of Earth's atmosphere 1953 Aug p 82–86 [824] phlogiston, chemistry, Priestley, life and work of Joseph Priestley premature infants retrolental fibroplasia epidemiology, infant	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust deep-sea drilling ocean evolution plate tectonics, sedimentary cores voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception touch olfactory receptors taste receptors mechanoreceptors pain receptors biological transducers 1960 Aug p 92-108 [70] pain, dolorimeter what is pain? 1953 Mar p 59 (6) anesthesia cocaine, procaine, surgery, medical research neuropharmacology pharmacology psychiatry, research in pain suppression 1957 Jan p 70 82 perception psychology neuropsychology, cultural influence on pain perception psychology neuropsychology, cultural influence on plate on pain receptors, sensory perception Pacinian corpuscle touch olfactory
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectronics, advent of integrated circuits semiconductor memories 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84–95 oxygen, atmosphere, escape velocity, photosynthesis, volcanoes water of crystallization, nitrogen origin and evolution of Earth's atmosphere 1953 Aug p 82–86 [824] phlogiston, chemistry, Priestley, life and work of Joseph Priestley premature infants retrolental fibroplasia epidemiology, infant mortality, blindness, 'blind babies' 1955 Dec p 40–44 comparative phy siology, ice fish, hemoglobin, blood, Antarctic fish	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust deep-sea drilling ocean evolution plate tectonics, sedimentary cores voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception touch olfactory receptors taste receptors mechanoreceptors pain receptors biological transducers 1960 Aug p 92-108 [70] pain, dolorimeter what is pain? 1953 Mar p 59 68 anesthesia cocaine, procaine, surgery, medical research neuropharmacology pharmacology psychiatry, research in pain suppression 1957 Jan p 70 82 perception psychology neuropsychology, cultural influence on pain perception psychology neuropsychology, cultural influence on pain perception, sensory perception Pacinian corpuscle touch olfactory receptors taste receptors mechanoreceptors hological transducers 1960 Aug p 94 103 [70]
algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuit, computer memory, microelectronics, advent of integrated circuit semiconductor memores 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84–95 oxygen, atmosphere, escape velocity, photosynthesis, volcanoes water of crystallization, nitrogen origin and evolution of Earth's aimosphere 1953 Aug p 82–86 [824] phlogiston, chemistry, Priestley, life and work of Joseph Priestley 1954 Oct p 68–73 premature infants retrolental fibroplasia epidemiology, infant mortality, blindness, 'blind babies' 1955 Dec p 40–44 comparative physiology, ice fish, hemoglobin, blood, Antarctic fish without red cells or hemoglobin 1965 Nov p 108–114 1952 Jan p 36	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust deep-sea drilling ocean evolution plate tectonics, sedimentary cores voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception touch olfactory receptors taste receptors mechanoreceptors pain receptors biological transducers 1960 Aug p 98-108 [70] pain, dolorimeter what is pain? 1953 Mar p 59 (6) anesthesia cocaine, procaine, surgery, medical research neuropharmacology pharmacology psychiatry, research in pain suppression perception psychology neuropsychology, cultural influence on pain perception, sensory perception Pacinian corpuscle touch olfactory receptors taste receptors mechanoreceptors hological transducers 1960 Aug p 98-108 [70]
algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectronics, advent of integrated circuit semiconductor memories 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84–95 oxygen, atmosphere, escape velocity, photosynthesis, volcanoes water of crystallization, nitrogen origin and evolution of Earth's atmosphere 1953 Aug p 82–86 [824] phlogiston, chemistry, Priestley, life and work of Joseph Priestley premature infants retrolental fibroplasia epidemiology, infant mortality, blindness, 'blind babies' 1955 Dec p 40–44 comparative physiology, ice fish, hemoglobin, blood, Antarctic fish without red cells or hemoglobin 1965 Nov p 108–114 by intravenous route	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor floor Pacific plate, Earth crust deep-sea drilling ocean evolution plate tectonics, sedimentary cores voyager of the Glomar Challenger 1973 Nov p 102-112 [91] Pacinian corpuscle, sensory perception touch olfactory receptors taste receptors mechanoreceptors pain receptors biological transducers 1960 Aug p 98-108 [70] pain, dolorimeter what is pain? 1953 Mar p 59 (6) anesthesia cocaine, procaine, surgery, medical research neuropharmacology pharmacology psychiatry, research in prin suppression perception psychology neuropsychology, cultural influence on pain perception, sensory perception Pacinian corpuscle touch olfactory receptors taste receptors mechanoreceptors hological trinsducers 1960 Aug p 98-108 [70] painting, art restoration \$\lambda\$-ras, microchemistry spectroscopy science in 1952 July p 22-27
algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectronics, advent of integrated circuit semiconductor memories 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84–95 oxygen, atmosphere, escape velocity, photosynthesis, volcanoes water of crystallization, nitrogen origin and evolution of Earth's atmosphere 1953 Aug p 82–86 [824] phlogiston, chemistry, Priestley, life and work of Joseph Priestley premature infants retrolental fibroplasia epidemiology, infant mortality, blindness, 'blind babies' 1955 Dec p 40–44 comparative physiology, ice fish, hemoglobin, blood, Antarctic fish without red cells or hemoglobin 1965 Nov p 108–114 by intravenous route oxygen atoms, airglow, atmosphere ionosphere, solar radiation ozone, upper atmosphere laboratory simulation atomic energy levels	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust deep-sea drilling ocean evolution plate tectonics, sedimentary cores voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception touch olfactory receptors taste receptors mechanoreceptors pain receptors biological transducers 1960 Aug p 92-108 [70] pain, dolorimeter what is pain? 1953 Mar p 59 (6) anesthesia cocaine, procaine, surgery, medical research neuropharmacology pharmacology psychiatry, research in pain suppression 1957 Jan p 70 82 perception psychology neuropsychology, cultural influence on pain perception psychology neuropsychology, cultural influence on pain perception psychology neuropsychology, cultural influence on pain receptors taste receptors mechanoreceptors hological transducers 1960 Aug p 94 103 [70] painting, art restoration \(\lambda\)-ray, microchemistry spectroscopy science in 1962 July p 22 27 information theory sculpture architecture visual communication
algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectronics, advent of integrated circuits semiconductor memories 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84–95 oxygen, atmosphere, escape velocity, photosynthesis, volcanoes water of crystallization, nitrogen origin and evolution of Earth's atmosphere 1953 Aug p 82–86 [824] phlogiston, chemistry, Priestley, life and work of Joseph Priestley premature infants retrolental fibroplasia epidemiology, infant mortality, blindness, 'blind babies' 1955 Dec p 40–44 comparative physiology, ice fish, hemoglobin, blood, Antarctic fish without red cells or hemoglobin 1965 Nov p 108–114 by intravenous route oxygen atoms, airglow, atmosphere ionosphere, solar radiation ozone, upper atmosphere laboratory simulation atomic energy levels 1966 Mar p 102–110	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust deep-sea drilling ocean evolution plate tectonics, sedimentary cores voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception touch olfactory receptors taste receptors mechanoreceptors pain receptors biological transducers 1960 Aug p 98-108 [70] pain, dolorimeter what is pain? 1953 Mar p 59 68 anesthesia cocaine, procaine, surgery, medical research neuropharmacology pharmacology psychiatry, research in pain 1957 Jan p 70 82 nerception psychology neuropsychology, cultural influence on pain perception psychology neuropsychology, cultural influence on pain perception 1961 Feb p 41-49 [457] pain receptors, sensory perception Pacinian corpuscle touch olfactory receptors taste receptors mechanoreceptors hological transducers 1960 Aug p 94 103 [70] painting, art restoration \(\frac{1}{2}\)-ray, microchemistry spectroscopy science in the art museum 1952 July p 22 27 information theory sculpture architecture visual communication communication trademarks language visual stimulus vi uniste 1872 Series 18 29 [543]
algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectronics, advent of integrated circuits, computer semiconductor memores 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84–95 oxygen, atmosphere, escape velocity, photosynthesis, volcanoes water of crystallization, nitrogen origin and evolution of Earth's atmosphere 1953 Aug p 82–86 [824] phlogiston, chemistry, Priestley, life and work of Joseph Priestley 1954 Oct p 68–73 premature infants retrolental fibroplasia epidemiology, infant mortality, blindness, 'blind babtes' 1955 Dec p 40–44 comparative physiology, ice fish, hemoglobin, blood, Antarctic fish without red cells or hemoglobin 1965 Nov p 108–114 by intravenous route 1952 Jan p 36 oxygen atoms, airglow, atmosphere ionosphere, solar radiation ozone, upper atmosphere laboratory simulation atomic energy levels 1966 Mar p 102–110	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust. Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust deep-sea drilling ocean evolution plate tectonics, sedimentary cores voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception touch olfactory receptors taste receptors mechanoreceptors pain receptors biological transducers 1960 Aug p 98-108 [70] pain, dolorimeter what is pain? 1953 Mar p 59 (6) anesthesia cocaine, procaine, surgery, medical research neuropharmacology pharmacology psychiatry, research in prin 1957 Jan p 70 82 anesthesia cocaine, procaine, surgery, medical research neuropharmacology pharmacology psychiatry, research in prin 1957 Jan p 70 82 perception psychology neuropsychology, cultural influence on pain 1961 Feb p 41-49 [457] pain receptors, sensory perception Pacinian corpuscle touch olfactory receptors taste receptors mechanoreceptors hiological transducers 1960 Aug p 98 103 [70] painting, art restoration \$\lambda\$-ras, microchemistry spectroscopy science in 1952 July p 22 27 information theory sculpture architecture visual communication communication trademarks language visual stimulus vi unist, entering transducers in 1972 Sept p 82 96 [54]
algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectronics, advent of integrated circuits, computer semiconductor memories 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84–95 oxygen, atmosphere, escape velocity, photosynthesis, volcanoes water of crystallization, nitrogen origin and evolution of Earth's atmosphere 1953 Aug p 82–86 [824] phlogiston, chemistry, Priestley, life and work of Joseph Priestley 1954 Oct p 68–73 premature infants retrolental fibroplasia epidemiology, infant mortality, blindness, 'blind babies' 1955 Dec p 40–44 comparative physiology, ice fish, hemoglobin, blood, Antarctic fish without red cells or hemoglobin 1965 Nov p 108–114 by intravenous route oxygen atoms, airglow, atmosphere ionosphere, solar radiation ozone, upper atmosphere laboratory simulation atomic energy levels 1966 Mar p 102–110 oxygen-carbon balance, chloroplast, oxygen cycle photosynthesis biosphere aerobic metabolism ozone, oxidation reduction reactions	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust deep-sea drilling ocean evolution plate tectonics, sedimentary cores voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception touch olfactory receptors taste receptors mechanoreceptors pain receptors biological transducers 1960 Aug p 98-108 [70] pain, dolorimeter what is pain? 1953 Mar p 59 66 anesthesia cocaine, procaine, surgery, medical research neuropharmacology pharmacology psychiatry, research in pun 1957 Jan p 70 82 anesthesia cocaine, procaine, surgery, medical research neuropharmacology pharmacology psychiatry, research in pun 1957 Jan p 70 82 perception psychology neuropsychology, cultural influence on pain 1961 Feb p 41-49 [457] pain receptors, sensory perception Pacinian corpuscle touch olfactory receptors taste receptors mechanoreceptors hiological transducers 1960 Aug p 98 103 [70] painting, art restoration \(\lambda\)-ray, microchemistry spectroscopy science in 1952 July p 22 27 information theory sculpture architecture visual communication communication trademarks language visual stimulus vi unist particular palatalization, American languages speech changes in American 3 specific palatalization, American languages speech changes in American 3 specific particular partic
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] ovide semiconductors, magnetic core, integrated circuits, computer memory, microelectronics, advent of integrated circuits semiconductor memories 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84–95 oxygen, atmosphere, escape velocity, photosynthesis, volcanoes water of crystallization, nitrogen origin and evolution of Earth's atmosphere 1953 Aug p 82–86 [824] phlogiston, chemistry, Priestley, life and work of Joseph Priestley phosphere infants retrolental fibroplasia epidemiology, infant mortality, blindness, 'blind babies' 1955 Dec p 40–44 comparative physiology, ice fish, hemoglobin, blood, Antarctic fish without red cells or hemoglobin 1965 Nov p 108–114 by intravenous route 0xygen atoms, airglow, atmosphere ionosphere, solar radiation ozone, upper atmosphere laboratory simulation atomic energy levels 1966 Mar p 102–110 0xygen-carbon balance, chloroplast, oxygen cycle photosynthesis biosphere aerobic metabolism ozone, ovidation reduction reactions geological record	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust deep-sea drilling ocean evolution plate tectonics, sedimentary cores voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception touch olfactory receptors taste receptors mechanoreceptors pain receptors biological transducers 1960 Aug p 98-108 [70] pain, dolorimeter what is pain? 1953 Mar p 59 68 anesthesia cocaine, procaine, surgery, medical research neuropharmacology pharmacology psychiatry, research in pain 1957 Jan p 70 82 nerception psychology neuropsychology, cultural influence on pain perception psychology neuropsychology, cultural influence on pain perception 1961 Feb p 41-49 [457] pain receptors, sensory perception Pacinian corpuscle touch olfactory receptors taste receptors mechanoreceptors hological transducers 1960 Aug p 94 103 [70] painting, art restoration \(\frac{1}{2}\)-ray, microchemistry spectroscopy science in the art museum 1952 July p 22 27 information theory sculpture architecture visual communication communication trademarks language visual stimulus vi uniste 1872 Series 18 29 [543]

ozone, oxidation reduction reactions geological record oxygen ozone, oxidation reduction reactions geological record oxygen oxed by hance 1970 Sept. p. 110–123 [1192]

carbon balance

paleobotany, radiocarbon dating, carbon 14, archeological dating, pollen	pandemics, antigen variation, disease, medical history, influenza virus,
analysis 1952 Feb. p. 24–28	encephalitis, virus disease, animal vectors, Hong Kong flu, swine flu
Arctic flora, desert adaptation, cold adaptation, Greenland flora,	1977 Dec. p. 88–106 [1375]
adaptations to Arctic climate 1956 Feb. p. 88-98	Pangaea, continental drift, plate tectonics, scaling, subduction, sea-floor
primitive flowering plant 1956 Sept. p. 116	spreading. Earth crust, Triassic period, computer modeling.
Paleolithic archeology, cave art, cave paintings, sculpture, Lascaux,	supercontinents, breakup of Pangaea traced
Altamira 1968 Feb. p. 58–72	1970 Oct. p. 30–41 [892]
stone tools, tool assemblages, multivariate analysis, factor analysis,	biosphere, continental drift, marine biology, ocean evolution, plate
computer analysis, Bordes method, stone tools as fossils of behavior	tectonics 1974 Apr. p. 80–89 [912]
1969 Apr. p. 70–84 [643]	continental drift, contracting-Earth theory, science history, plate
flint tools, microwear analysis 1977 Nov. p. 108-126 [700]	tectonics, Wegener's hypothesis 1975 Feb. p. 88–97
burial site in U.S.S.R. 1965 Feb. p. 53	pangenesis, extraterrestrial life, meteorites, chondrites, organic molecules,
Paleolithic campsite, stone tools, huts, structures from 300,000 years ago	organic molecules in carbonaceous chondrites 1963 Mar. p. 43-49
1969 May p. 42-50	pantothenic acid, see: coenzyme A
Paleolithic culture. Amerindian, Havasupai, Cohonina, prehistoric man	paper, cellulose, rayon, forest products, crystal structure, lignin,
in the Grand Canyon 1958 Feb. p. 97-102	polymers, polysaccharides, overview of natural polymer
Isimila, stone tools, cultural archeology, Old Stone Age site in Africa	1957 Sept. p. 156–168
1961 Oct. p. 118–129	lignin, wood, aromatic compounds, chemical identity of elusive lignin
Switzerland, 'lake-dwellers', prehistoric Swiss lake-dwellers	1958 Oct. p. 104–113
1961 Dec. p. 138–147	forest products, wood pulp, cellulose, lignin, rayon, waste recycling, kraft process 1974 Apr. p. 52-62
anthropology, stone tools, obsidian, Andes, El Inga site, prehistoric	
man in the Andes 1963 May p. 116-128	
rock drawings, petroglyphs, Siberia, Paleolithic, Neolithic periods	paper chromatography, chromatography, fractionation, amino-acid
1969 Aug. p. 74-82 [649]	separation 1951 Mar. p. 35-41 fruit fly, gene mutation, insect eye, fractionating the fruit fly
stone tools, Kalambo Falls site 1958 July p. 76	1962 Apr. p. 100–110 [1166]
Paleolithic Europe, Cro Magno art, Magdalenian, Aurignacian-	para-aminobenzoic acid, metabolite antagonists, imitative drugs, sulfa
Perigordian, cave paintings 1953 Aug. p. 30–33	drugs, folic acid 1951 Apr. p. 60–63
Paleolithic man, aborigine, stone tools, dingo, Tasmanian devil,	para-aminosalicylic acid, isoniazid, isotopes, tuberculosis, streptomycin,
Australian aborigine, antiquity of man in Australia 1966 Mar. p. 84-93 [628]	pharmacology, tracing action of TB drugs 1956 Nov. p. 135–144
Paleolithic settlements, climate, Europe, hunting, stone tools	paradox, mathematics, set theory, logic, non-Euclidian space, non-
1976 Feb. p. 88–99	commutative algebra, Hilbert spaces, science, mathematics 1900-
climate, cultural evolution, hunter-gatherer societies. Nile prehistory.	1950, undecidable questions 1950 Sept. p. 40–42
	symbolic logic, Boolean algebra, switching circuits 1950 Dec. p. 22–24
stone tools 1976 Aug. p. 30-38 paleomagnetism, evolution. Infra-Cambrian Ice Age, glaciation, fossil	Godel's proof, mathematics, logic, philosophy of science, undecidable
record, continental drift 1964 Aug. p. 28–36	problems in axioms of arithmetic 1956 June p. 71–86
magnetic field, volcanic rocks, geomagnetic reversals, sea-floor	antinomy, mathematical logic, logic, barber paradox, undecidable
spreading reversals of Earth's magnetic field 1967 Feb. p. 44-54	questions, Godel's proof, Grelling's paradox, Epimenides' paradox,
continental drift, glaciation, Gondwanaland, Laurasia, Glossopteris,	Ženo's paradox, paradox and foundations of logic
sea-floor spreading, supercontinents, plate tectonics, continental	1962 Apr. p. 84–96
drift confirmed 1968 Apr. p. 52–64 [874]	games theory, mathematical logic, decision theory, 'metalogic' to solve
paleoneurology, brain evolution, brain size, cephalization index,	paradox 1967 July p. 50–56
endocranial casts, intelligence 1976 Jan. p. 90-101 [568]	symbolic logic, Dodgson, barber paradox, mathematics
paleontology, reptile, dinosaurs, mammalian evolution, therapsids,	1972 July p. 38–46
ichthyosaurs, evolution, origin of mammals 1949 Mar. p. 40-43	paradoxical sleep, dreams, sleep research, electroencephalography,
glaciation, natural history. Agassiz, Louis Agassiz, fostering of science	reticular formation, brain waves, REM sleep, cat brain, the states of
in America 1949 July p. 48-51	sleep 1967 Feb. p. 62–72 [504]
amino acids, fossil, bone, mollusk shells, paleobiochemistry	parallel lines, non-Euclidian geometry, Aristotle, non-Euclidian geometry
1956 July p. 83–92 [101]	before Euclid 1969 Nov. p. 87–98
oxygen isotopes, temperature measurement, foraminifera, abyssal	parallel processing, computer technology, computer programming.
sediments, glaciation, climatic change, measurement of ancient	sequential processing, ILLIAC IV fastest computer
temperatures 1958 Feb. p. 54-63	1971 Feb. p. 76–87
Antarctica, fossil fauna, fossil flora, geology, Glossopteris, coal,	paralysis, bacterial toxin, tetanus, botulism, nerve impulse, inhibitory
continental drift evidence 1962 Sept. p. 168–184 [863]	impulse, synapse, motor neuron, Clostridium tetani, Clostridium
algae, coral, coral rings, fossil reefs, climatic change, dating by coral	botulinum 1968 Apr. p. 69–77
rings 1966 Oct. p. 26-33 [871] cotyloszur fossil, oldest reptile 1967 Sept. p. 104	paramecium, cytoplasmic inheritance, reciprocal crossing, maternal
Onverwacht microfossils 1968 Oct. p. 59	inheritance, sex linked traits, non-Mendelian inheritance, male
see also: micropaleontology	sterility, chloroplast, plastids, cytogene, review of evidence for an
Palestine, Jerusalem, Biblical archeology, city of Jebusites, David, Herod	extra-chromosomal genetics 1950 Nov. p. 30–39 [39] parametric pump. fluid separation 1966 Apr. p. 50
1965 July p. 84-91	Paranthropus, man-apes, human evolution, Homo, Australopithecus,
Palomar Observatory. Hale telescope. Schmidt telescope, galactic survey.	Plesianthropus 1949 Nov. p. 20–24 [832]
cosmology, 200-inch and 48-inch Palomar telescopes	parapsychology, question of fraud 1956 Mar. p. 58
1948 Aug. p. 12–17	'eyeless vision' unmasked in U.S.S.R. 1965 Mar. p. 57
five photographs from 200 inch telescope 1949 Nov. p. 32–39	psychokinesis data falsified 1974 Sept. p. 68
cosmology, red shift, stellar populations, interstellar matter, galactic	Faraday's disarming dismissal 1975 Ian n 57
evolution. Hale telescope, first yield from 200 inch telescope	parasitism, toxoplasmosis, intracellular parasite, infectious disease,
1952 Feb. p. 43–51	encephablis, insect vectors 1953 Feb. p. 86_02
planets, photographs of the planets by 200-inch telescope	circadian rhythm, filariasis, elephantiasis, tropical disease
Palorman telescopes, else annuel 1953 Feb. p. 17–21	1958 July p. 94-101
Palomar telescopes, sky survey 1954 Aug. p. 38 Panama Canal, alternatives 1971 Jan. p. 44	insect reproduction, plant galls, plant growth, parasite-induced changes
pancreas, cell differentiation, embryonic development, mesoderm,	in piznts 1959 Nov. p. 151 162
endoderm, tissue culture 1969 Mar. p. 36—44 [1136]	Chaga's disease, public health, 'zoonoses', trypanocomiacie malaria
[1130]	mariasis, leishmaniasis, plague, yellow fever, typhus, epidemiology,
	animal infection and human disease 1960 May p. 161-170

COLOR CUCIAM Ulangon IO	
solar system, Pioneer 10 mission 1972 Jan p 4	ovygen debt, ATP, muscle, glycolysis, aerobic metabolism, lactic acid
oven, ballistics, caloric heat theory, science history, Rumford, heat as motion, Benjamin Thomson, biography 1960 Oct p 158-169	formation, aerobic metabolism, anaerobic metabolism, energy
Ovshinsky devices, amorphous semiconductors, nonperiodic systems,	mechanisms in muscle 1972 Mar p 84-91 [124]
quantum mechanics, semiconductor technology, switching	oxygen injection, steel production, open hearth furnace, basic oxygen process
pnenomena 1977 May n 36 48 1363	process 1968 Apr p 24-31 oxygen isotopes, temperature measurement, foramınıfera, abyssal
ovulation, twins, identical twins, fraternal twins, estrin, physiology of	Sediments, paleontology algoration objects objects massivement
twinning 1951 Jan p 48-51 contraception, birth control, reproduction, nidation, fertilization	of ancient temperatures 1958 Feb p 54-63
1954 Apr p 31 34	oxygen level, Atlantic Ocean, Gulf Stream, ocean circulation, salimits
ovulation timing, male fertility, spermatozoon count, birth control	ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan p 30-35 [810]
1950 May p. 16_19	atmosphere 1970 Oct p 54
ovum, cell anatomy, spermatozoon, virus, science history, cytology, muscle cell, plant cell, connective tissue cell, introduction to single-	oxygen startation, metabolism, erythrocyte, acclimatization attitude
topic issue on the living cell 1961 Sept p 50-61 [90]	adaptation 1955 Dec p 58-68
cell differentiation, tissue specialization, 'lampbrush' chromosome	ox) gen storage, asphyxia, breathing, diving bradycardia respiratory gas exchange, diving mammals, diving birds, hibernation, selective
embryonic development, zygote, fertilization, clone, cytology, how	ischemia, human physiology, redistribution of oxygenated blood and
cells specialize 1961 Sept p 124-140 embryonic development, oocytogenesis, meiosis, mitosis, mammalian	'master switch of life' 1963 Dec p 92-106
eggs, chromosomal anomalies, in vitro fertilization	ovygen transfer, lung, gill, carbon dioxide, gas exchange, water breathing
1966 Aug n 72-81 [1047]	by mammals, breathing, animal experiments in water-breathing 1968 Aug p 66-74 [1123]
mitosis, fertilization, embryonic development, meiosis, blastocyst,	oxygen transport, ceruloplasmin, hemocyanin, enzymes, copper
human embryos in the laboratory 1970 Dec p 44-54 [1206] oxen, transportation, wheeled vehicles, carts, wagons, Transcaucasus,	deficiency, cytochrome oxidase, copper biochemistry, Wilson's
Mesopotamia, origin of wheeled transport 5,000 years ago	disease, tyrosinase 1968 May p 102-114 oysters, natural history 1953 Nov p 86-91
1968 July p 82–90	ozone, air pollution, smog "blue haze", atmospheric inversion
oxidation, rust, technetium, corrosion, studies in corrosion	particulates, peroxides, photochemistry 1955 May p 62-72
oxidation membrane, ATP synthesis, mitochondria, electron transfer,	atmospheric tides, Earth, ultraviolet radiation, ultraviolet-radiation hypothesis 1962 Dec p 48-55
mutochondrion, proposed structure of mutochondrion	air pollution, smort automobile emissions, urban transport all
1964 Jan p 63-74	pollution control in Los Angeles 1964 Jan p 24-31 [010]
oxidation of food, desert rat, kidney, water balance, how banner-tailed	catalysis, corona discharge, free radicals, polymerization, corona
kangaroo rat survives without water 1953 July p 73-78 [1050] oxidation-reduction reactions, chloroplast, oxygen cycle, photosynthesis,	chemistry, water purification, hydrocarbon cracking 1965 June p 90-98
biosphere, aerobic metabolism, ozone, geological record, oxygen-	airglow, atmosphere, ionosphere, solar radiation, oxygen atoms upper
carbon balance 1970 Sept p 110-123 [1192]	atmosphere, laboratory simulation, atomic energy levels 1966 Mar p 102-110
oxidative phosphorylation, cytology, energy transformation, ATP,	1900 Mar p 102-110
mitochondrion, citric-acid cycle, glycolysis, membrane, energy transformation in the cell 1960 May p 102-114	chloroplast, oxygen cycle, photosynthesis, biosphere, aerobic metabolism, oxidation-reduction reactions, geological record,
ATP, chloroplast, mitochondrion, photosynthesis, cell metabolism,	oxygen-carbon balance 1970 Sept p 110-123 (172)
glucogenesis, citric-acid cycle, glycolysis, cytology, cellular	
	climate, air pollution, atmospheric circulation, carbon dioxide
transformation of energy 1961 Sept p 62-73 [91]	to a day of the day of the same and the same
transformation of energy 1961 Sept p 62-73 [91] algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in	chmate, air pollution, atmospheric circulation, carbon diovide window, particulates, temperature of Earth, human activity and climatic change 1971 Jan p 32-42 [894]
transformation of energy 1961 Sept p 62-73 [91] algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88-100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell	to a day of the day of the same and the same
transformation of energy 1961 Sept p 62-73 [91] algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88-100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32-39 [1101]	to a day of the day of the same and the same
transformation of energy 1961 Sept p 62-73 [91] algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88-100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32-39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology,	'window', particulates, temperature of Earth, human activity and climatic change 1971 Jan p 32-42 [894] P
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation,	'window', particulates, temperature of Earth, human activity and climatic change 1971 Jan p 32-42 [894] Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315]	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–99, cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast,	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 [894] earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean 1955 Nov p 36-41 [814]
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383]	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814]
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectonics, sedimentary cores, voyager of the Glomar Challenger 1973 Nov p 102-112 [911]
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88-100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32-39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 32-39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 32-39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 32-39 [1101] ATP, cell nucleus, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46-57 [1315] ATP, cell membrane, active transport, mitochondron, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104-123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectronics, advent of integrated-circuit	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectonics, sedimentary cores, voyager of the Glomar Challenger 1973 Nov p 102-112 [911]
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectronics, advent of integrated-circuit semiconductor memories 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor Pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectonics, sedimentary cores, voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception, touch, olfactory receptors taste receptors, mechanoreceptors, pain receptors biological transducers 1960 Aug p 98-108 [70]
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectronics, advent of integrated-circuit semiconductor memones 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84–95	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectonics, sedimentary cores, voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception, touch, olfactory receptors taste receptors, mechanoreceptors, pain receptors biological transducers 1960 Aug p 98-108 [70] pain, dolorimeter, what is pain? 1953 Mar p 59-66
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectromics, advent of integrated-circuit semiconductor memories 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84–95 oxygen, atmosphere, escape velocity, photosynthesis, volcanoes, water of creatilization, nitrogen, origin and evolution of Earth's atmosphere	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectonics, sedimentary cores, voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception, touch, olfactory receptors taste receptors, mechanoreceptors, pain receptors biological transducers 1960 Aug p 98-108 [70] pain, dolorimeter, what is pain? 1953 Mar p 59-66 anesthesia cocaine, procaine, surgery, medical research
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectronics, advent of integrated-circuit semiconductor memories 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84–95 oxygen, atmosphere, escape velocity, photosynthesis, volcanoes, water of cry stallization, nitrogen, origin and evolution of Earth's atmosphere 1953 Aug p 82–86 [824]	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectonics, sedimentary cores, voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception, touch, olfactory receptors taste receptors, mechanoreceptors, pain receptors biological transducers 1960 Aug p 98-108 [70] pain, dolonmeter, what is pain? 1953 Mar p 59-66 anesthesia, cocaine, procaine, surgery, medical research in pain europession 1957 Jan p 76 82
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] ovide semiconductors, magnetic core, integrated circuits, computer memory, microelectronics, advent of integrated-circuit semiconductor memories 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84–95 oxygen, atmosphere, escape velocity, photosynthesis, volcanoes, water of crystallization, nitrogen, origin and evolution of Earth's atmosphere 1953 Aug p 82–86 [824]	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectonics, sedimentary cores, voyager of the Glomar Challenget 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception, touch, olfactory receptors taste receptors, mechanoreceptors, pain receptors biological transducers 1960 Aug p 98-108 [70] pain, dolorimeter, what is pain? 1953 Mar p 59-66 anesthesia, cocaine, procaine, surgery, medical research in pain suppression 1957 Jan p 70 82
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectromics, advent of integrated-circuit semiconductor memories 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84–95 oxygen, atmosphere, escape velocity, photosynthesis, volcanoes, water of crystallization, nitrogen, origin and evolution of Earth's atmosphere 1953 Aug p 82–86 [824] phlogiston, chemistry, Priestley, life and work of Joseph Priestley 1954 Oct p 68–73	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectonics, sedimentary cores, voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception, touch, olfactory receptors taste receptors, mechanoreceptors, pain receptors biological transducers 1960 Aug p 98-108 [70] pain, dolorimeter, what is pain? 1953 Mar p 59-66 anesthesia, cocaine, procaine, surgery, medical research neuropharmacology, pharmacology, psychiatry research in pain suppression 1957 Jan p 70 82 perception, psychology, neuropsychology cultural influence on pain 1961 Feb p 41-49 [457]
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectronics, advent of integrated-circuit semiconductor memories 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame oxygen, atmosphere, escape velocity, photosynthesis, volcanoes, water of crystallization, nitrogen, origin and evolution of Earth's atmosphere 1953 Aug p 82–86 [824] phlogiston, chemistry, Priestley, life and work of Joseph Priestley 1954 Oct p 68–73 premature infants, retrolental fibroplasia, epidemiology, infant	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectonics, sedimentary cores, voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception, touch, olfactory receptors taste receptors, mechanoreceptors, pain receptors biological transducers 1960 Aug p 98-108 [70] pain, dolorimeter, what is pain? 1953 Mar p 59-66 anesthesia, cocaine, procaine, surgery, medical research neuropharmacology, pharmacology, psychiatry research in pain suppression 1957 Jan p 70 82 perception, psychology, neuropsychology cultural influence on pain perception pain receptors, sensory perception Pacinian corpuscle touch olfactory research in pain perception.
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectromics, advent of integrated-circuits semiconductor memories 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84–95 oxygen, atmosphere, escape velocity, photosynthesis, volcanoes, water of crystallization, nitrogen, origin and evolution of Earth's atmosphere 1953 Aug p 82–86 [824] phlogiston, chemistry, Priestley, life and work of Joseph Priestley 1954 Oct p 68–73 premature infants, retrolental fibroplasia, epidemiology, infant mortality, blindness, 'blind babies' 1955 Dec. p 40–44 comparative physiology, ice fish, hemoglobin, blood, Antarctic fish	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectonics, sedimentary cores, voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception, touch, olfactory receptors taste receptors, mechanoreceptors, pain receptors biological transducers 1960 Aug p 98-108 [70] pain, dolorimeter, what is pain? 1953 Mar p 59-66 anesthesia, cocaine, procaine, surgery, medical research neuropharmacology, pharmacology, psychiatry research in pain suppression 1957 Jan p 70 82 perception, psychology, neuropsychology cultural influence on pain perception psychology, neuropsychology cultural influence on pain perception staste receptors mechanoreceptors hiological transducers receptors taste receptors mechanoreceptors hiological transducers 1960 Aug p 98 108 [70]
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectronics, advent of integrated-circuit semiconductor memories 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84–95 oxygen, atmosphere, escape velocity, photosynthesis, volcanoes, water of crystallization, nitrogen, origin and evolution of Earth's atmosphere (1953 Aug p 82–86 [824]) phlogiston, chemistry, Priestley, life and work of Joseph Priestley 1954 Oct p 68–73 premature infants, retrolental fibroplasia, epidemiology, infant mortality, blindness, 'blind babies' 1955 Dec. p 40–44 comparative physiology, ice fish, hemoglobin, blood, Antarctic fish without red cells or hemoglobin 1965 Nov p 108–114	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor floor Pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectionics, sedimentary cores, voyager of the Glomar Challenger pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectionics, sedimentary cores, voyager of the Glomar Challenger 1973 Nov p 102-112 [91] Pacinian corpuscle, sensory perception, touch, olfactory receptors taste receptors, mechanoreceptors, pain receptors biological transducers 1960 Aug p 98-108 [70] pain, dolorimeter, what is pain? 1953 Mar p 59-66 neuropharmacology, pharmacology, psychiatry research in pain suppression 1957 Jan p 70 82 perception, psychology, neuropsychology cultural influence on pain perception, psychology, neuropsychology cultural influence on pain perception psychology, neuropsychology cultural influence on pain perception taste receptors mechanoreceptors hological transducers 1960 Aug p 98 108 [70] painting, art restoration, X-ray microchemistry spectroscopy, science in 1952 July p 22 27
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectronics, advent of integrated-circuits semiconductor memories 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84–95 oxygen, atmosphere, escape velocity, photosynthesis, volcanoes, water of crystallization, nitrogen, origin and evolution of Earth's atmosphere (1953 Aug p 82–86 [824]) phlogiston, chemistry, Priestley, life and work of Joseph Priestley premature infants, retrolental fibroplasia, epidemiology, infant mortality, blindness, 'blind babies' 1954 Oct p 68–73 premature physiology, ice fish, hemoglobin, blood, Antarctic fish without red cells or hemoglobin 1965 Nov p 108–114 1952 Jan p 36	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectonics, sedimentary cores, voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception, touch, olfactory receptors taste receptors, mechanoreceptors, pain receptors biological transducers 1960 Aug p 98-108 [70] pain, dolorimeter, what is pain? 1953 Mar p 59-66 anesthesia, cocaine, procaine, surgery, medical research neuropharmacology, pharmacology, psychiatry research in pain suppression 1957 Jan p 70-82 perception, psychology, neuropsychology cultural influence on pain perceptions, sensory perception Pacinian corpuscle touch olfactory receptors taste receptors mechanoreceptors hiological transducers 1960 Aug p 98-108 [70] painting, art restoration, X-ray microchemistry spectroscopy, science in 1952 July p 22-27 and formation for the part museum 1952 July p 22-27 and formation for the part museum 1952 July p 22-27 and formation for the part museum 1952 July p 22-27 and formation for the part museum 1952 July p 22-27 and formation for the part museum 1952 July p 22-27 and formation for the part museum 1952 July p 22-27 and formation for the part museum 1952 July p 22-27 and formation for the part museum 1952 July p 22-27 and formation for the part museum 1952 July p 22-27 and formation for the part museum 1952 July p 22-27 and formation for the part museum 1952 July p 22-27 and formation for the part museum 1952 July p 22-27 and formation for the part museum 1952 July p 22-27 and formation for the part museum 1952 July p 22-27 and formation for the part museum 1952 July p 22-27 and formation for the part museum 1952 July p 22-27 and formation for the part museum 1952 July p 22-27 and formation for the part museum 1952 July p 22-27 and formation for the part museum 1952 July p 22-27 and formatio
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectromics, advent of integrated-circuit semiconductor memories 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84–95 oxygen, atmosphere, escape velocity, photosynthesis, volcanoes, water of crystallization, nitrogen, origin and evolution of Earth's atmosphere 1953 Aug p 82–86 [824] phlogiston, chemistry, Priestley, life and work of Joseph Priestley premature infants, retrolental fibroplasia, epidemiology, infant mortality, blindness, 'blind babies' 1955 Dec. p 40–44 comparative physiology, ice fish, hemoglobin, blood, Antarctic fish without red cells or hemoglobin 1965 Nov p 108–114 by intravenous route 1952 Jan p 36 oxygen atoms, airglow, atmosphere, ionosphere, solar radiation ozone, upper atmosphere, laboratory simulation atomic energy levels	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor Pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectonics, sedimentary cores, voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception, touch, olfactory receptors taste receptors, mechanoreceptors, pain receptors biological transducers 1960 Aug p 98-108 [70] pain, dolorimeter, what is pain? 1953 Mar p 59-66 anesthesia, cocaine, procaine, surgery, medical research neuropharmacology, pharmacology, psychiatry research in pain suppression 1957 Jan p 70 82 perception, psychology, neuropsychology cultural influence on pain perception psychology, neuropsychology cultural influence on pain receptors taste receptors mechanoreceptors hiological transducers 1960 Aug p 98 108 [70] painting, art restoration, X-ray microchemistry spectroscopy, science in the art museum information theory, sculpture architecture visual stimulus visual or 151 [972 Sept p 82 97 [542]]
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectronics, advent of integrated circuits, computer semiconductor memories 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84–95 oxygen, atmosphere, escape velocity, photosynthesis, volcanoes, water of crystallization, nitrogen, origin and evolution of Earth's atmosphere 1953 Aug p 82–86 [824] phlogiston, chemistry, Priestley, life and work of Joseph Priestley 1954 Oct p 68–73 premature infants, retrolental fibroplasia, epidemiology, infant mortality, blindness, 'blind babies' 1955 Dec. p 40–44 comparative physiology, ice fish, hemoglobin, blood, Antarctic fish without red cells or hemoglobin 1965 Nov p 108–114 by intravenous route oxygen atoms, airglow, atmosphere, ionosphere, solar radiation ozone, upper atmosphere, laboratory simulation atomic energy levels 1966 Mar p 102–110	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1971 Jan p 32-42 [894] Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 [814] earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor Pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectionics, sedimentary cores, voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception, touch, olfactory receptors taste receptors, mechanoreceptors, pain receptors biological transducers 1960 Aug p 98-108 [70] pain, dolorimeter, what is pain? 1953 Mar p 59-66 anesthesia, cocaine, procaine, surgery, medical research in pain suppression 1957 Jan p 70 82 perception, psychology, neuropsychology cultural influence on pain perception, psychology, neuropsychology cultural influence on pain perception, psychology, neuropsychology cultural influence on pain perception and post process taste receptors mechanoreceptors hological transducers 1960 Aug p 98 108 [70] painting, art restoration, X-ray microchemistry spectroscopy, science in the art museum 1952 July p 22 27 information theory, sculpture architecture visual communication trademarks language visual stimulus visual 67-15 1972 Sept p 92 94 [342]
algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectronics, advent of integrated-circuit semiconductor memories 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84–95 oxygen, atmosphere, escape velocity, photosynthesis, volcanoes, water of crystallization, nitrogen, origin and evolution of Earth's atmosphere 1953 Aug p 82–86 [824] phlogiston, chemistry, Priestley, life and work of Joseph Priestley 1954 Oct p 68–73 premature infants, retrolental fibroplasia, epidemiology, infant mortality, blindness, 'blind babies' 1955 Dec. p 40–44 comparative physiology, ice fish, hemoglobin, blood, Antaretic fish without red cells or hemoglobin 1965 Nov p 108–114 to 1952 Jan p 36 in travenous route 1966 Mar p 102–110 oxygen atoms, airglow, atmosphere, ionosphere, solar radiation ozone, upper atmosphere, laboratory simulation atomic energy levels upper atmosphere, chloroplast, oxygen cycle, photosynthesis biosphere, aerobic metabolism ozone, oxidation-reduction reactions	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectonics, sedimentary cores, voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception, touch, olfactory receptors taste receptors, mechanoreceptors, pain receptors biological transducers 1960 Aug p 98-108 [70] pain, dolorimeter, what is pain? 1953 Mar p 59-66 anesthesia, cocaine, procaine, surgery, medical research neuropharmacology, pharmacology, psychiatry research in pain suppression 1957 Jan p 76-82 perception, psychology, neuropsychology cultural influence on pain perception, escaper perception Pacinian corpuscle touch olfactory receptors taste receptors mechanoreceptors biological transducers 1960 Aug p 98-108 [70] painting, art restoration, X-ray microchemistry spectroscopy, science in 1952 July p 22-27 information theory, sculpture architecture visual communication trademarks language visual stimulus visual organic communication trademarks language visual stimulus visual organic palatalization. American languages speech chanses in American appeal 1955 Aur p 7-8 [1955 Aur p 7-8]
transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectronics, advent of integrated-circuit semiconductor memories 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 0xygen, atmosphere, escape velocity, photosynthesis, volcanoes, water of crystallization, nitrogen, origin and evolution of Earth's atmosphere 1953 Aug p 82–86 [824] phlogiston, chemistry, Priestley, life and work of Joseph Priestley 1954 Oct p 68–73 premature infants, retrolental fibroplasia, epidemiology, infant mortality, blindness, 'blind babies' 1955 Dec. p 40–44 comparative physiology, ice fish, hemoglobin, blood, Antarctic fish without red cells or hemoglobin 1965 Nov p 108–114 by intravenous route 1952 Jan p 36 oxygen atoms, airglow, atmosphere, ionosphere, solar radiation ozone, upper atmosphere, laboratory simulation atomic energy levels 1966 Mar p 102–110 oxygen-carbon balance, chloroplast, oxygen cycle, photosynthesis biosphere, aerobic metabolism ozone, oxidation-reduction reactions	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectonics, sedimentary cores, voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception, touch, olfactory receptors taste receptors, mechanoreceptors, pain receptors biological transducers 1960 Aug p 98-108 [70] pain, dolorimeter, what is pain? 1953 Mar p 59-66 anesthesia, cocaine, procaine, surgery, medical research neuropharmacology, pharmacology, psychiatry research in pain suppression 1957 Jan p 70 82 perception, psychology, neuropsychology cultural influence on pain perception pain receptors, sensory perception Pacinian corpuscle touch olfactory receptors taste receptors mechanoreceptors hiological transducers 1960 Aug p 98 108 [70] painting, art restoration, X-ray microchemistry spectroscopy, science in the art museum information theory, sculpture architecture visual communication trademarks language visual stimulus visual 62-15 palatalization. American languages speech changes in American specification of the process of the communication of the process of the process part of the process of the process of the process proce
algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] ovide semiconductors, magnetic core, integrated circuits, computer memory, microelectromics, advent of integrated-circuit semiconductor memories 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84–95 oxygen, atmosphere, escape velocity, photosynthesis, volcanoes, water of crystallization, nitrogen, origin and evolution of Earth's atmosphere phlogiston, chemistry, Priestley, life and work of Joseph Priestley 1954 Oct p 68–73 premature infants, retrolental fibroplasia, epidemiology, infant mortality, blindness, 'blind babies' 1955 Dec. p 40–44 comparative physiology, ice fish, hemoglobin, blood, Antarctic fish without red cells or hemoglobin 1965 Nov p 108–114 by intravenous route 1952 Jan p 36 oxygen atoms, airglow, atmosphere, ionosphere, solar radiation ozone, upper atmosphere, laboratory simulation atomic energy levels 1966 Mar p 102–110 oxygen-carbon balance, chloroplast, oxygen cycle, photosynthesis biosphere, aerobic metabolism ozone, oxidation-reduction reactions	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor floor Pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectionics, sedimentary cores, voyager of the Glomar Challenger pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectionics, sedimentary cores, voyager of the Glomar Challenger pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectionics, sedimentary cores, voyager of the Glomar Challenger pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectionics, sedimentary cores, voyager of the Glomar Challenger pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectionics, sedimentary cores, voyager of the Glomar Challenger pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectionics, sedimentary cores, voyager of the Glomar Challenger pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectionics, sedimentary cores, voyager of the Glomar Challenger paint deceptors, mechanoreceptors, paint research in plane anesthesia, cocaine, procaine, surgery, medical research neuropharmacology, pharmacology, psychiatry research in plane suppression perception, psychology, neuropsychology cultural influence on plane p

mesons, pions, strong interactions, nuclear binding force, quantum of the strong force 1957 Jan p 84–92 [226]	chromosomal anomalies, computer analysis, computer graphics, computer recognition and classification of chromosomes
the attended to the first of th	1966 Apr p 40–46 [1040]
particle detector, semiconductor, solid state physics, particle	automatic cell sorting, blood cell analysis, computer analysis,
accelerator, semiconductor particle-detector 1962 Oct p 78-88 [284]	lymphocytes, automatic analysis of white cells 1970 Nov p 72-82 cluster-seeking algorithms, computer technology, reading machines
spark chamber design 1961 July p 72	1971 Apr p 56–71
eta meson, pion resonance, strong interactions 1962 Feb p 73	eye movement, scan-path recordings, serial-recognition hypothesis,
pion resonances 1962 June p 79	visual perception 1971 June p 34-43 [537]
atomic nucleus, strong interactions 1962 Nov p 70	visual perception, information theory, computer graphics, 'block
high-energy physics, intermediate boson 1964 Mar p 54	portraits', computer enhancement, recognition of faces
omega minus particle discovered 1964 Apr p 60	1973 Nov p 70–82
relation of electromagnetic and weak interactions forces 1973 Nov p 48	figure-ground perception, texture discrimination, visual perception, perceptual limitations 1975 Apr p 34-43 [563]
see also high-energy physics	reading, letters, words, visual cues in recognition of letters and words
article scattering, electromagnetic force, nuclear forces, proton, neutron,	1978 Jan p 122–130 [122]
mesons, high-energy physics, fundamental research, what holds the	Pauli, atom, exclusion principle, theoretical physics, antimatter, quantum mechanics, structure of atoms and nuclei 1959 July p 74-86 [264]
nucleus together? 1953 Sept p 58-63	Pavlov, conditioned behavior, behavioral psychology, biography and
article-scattering experiments, atomic nucleus, nuclear physics, high- energy physics, electron scattering, models of the atomic nucleus	appraisal of I P Pavlov 1949 Sept p 44-47
1956 July p 55–68 [217]	conditioned reflex, neurosis, operant conditioning, psychology,
atomic nucleus, science history, Rutherford, biography	thyroidectomy, stress, emotional behavior, neurosis, conditioned
1956 Nov p 93–104	reflex is shown to be a neurosis 1954 Jan p 48~57 [418]
high-energy physics, particle accelerator, atomic nucleus, method and	peasants, commerce, market, agricultural system, peasant markets in
technology of high-energy physics 1960 Mar p 98-114	Haiti 1960 Aug p 112–122 [647]
particle-storage rings, collective-effect accelerators, electron ring	peat bog, Stone Age hunters, organic relics, Neolithic archeology
accelerator, particle accelerator 1972 Apr p 22–33	1952 May p 20-25
particle tracks, photographic emulsion, cosmic radiation, neutron, proton, electron, characteristic 'signatures' of particles 1956 May p 40-47	archeology, weapons deposits, organic relics, Danish history 1953 Oct p 84-88
spark chamber, particle accelerator, cloud chamber, bubble chamber	pecking order, chicken, social behavior, sexuality and dominance
1962 Aug p 36-43	1956 Feb p 42-46 [471]
fission-track dating 1967 June p 51	aggression, group behavior, social psychology, experiments in group
particle-wave duality, see wave-particle duality	behavior 1956 Nov p 54–58 [154]
particles of wear, Beilby layer, ferrograph analysis, friction, lubrication,	communication, territorial behavior, pheromones, rabbits, scent glands,
machine wear, metal fatigue, wear 1974 May p 88–97	territorial marking by rabbit 1968 May p 116–126 [1108]
particulates, air pollution, smog, 'blue haze', atmospheric inversion, ozone, peroxides, photochemistry 1955 May p. 62–72	animal behavior, courtship display, turkeys, sexual behavior, lek behavior, Welder Wildlife Refuge 1971 June p 112-118
ozone, peroxides, photochemistry 1955 May p 62-72 climate, air pollution, atmospheric circulation, carbon dioxide	peer group, social deprivation, comparative psychology, rhesus monkeys,
'window', ozone, temperature of Earth, human activity and climatic	maternal deprivation, experiments in social deprivation
change 1971 Jan p 32-42 [894]	1962 Nov p 136–146 [473]
cermets, composite materials, dispersion-strengthened composites,	peer review, NSF, research funding, university science, science policy,
fiber-reinforced composites 1973 July p 36-44	sociology of science 1977 Oct p 34-41 [698]
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron positron annihilation, proton, quantum	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46-53 [630]
electrodynamics 1973 Oct p 104–113	Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of
parts manufacture, automatic control, computer applications, machine	Macedonia 1966 Dec p 98–105
tool, batch process production methods 1975 Feb p 22-29	Peltier effect, thermoelectricity, semiconductor, Seebeck effect
Pascal's theorem, projective geometry, Renaissance paintings, Leonardo,	1958 Nov p. 31–37
Durer, Desargue's theorem, mathematics, projective geometry as	pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back
systematized by Poncelet and Klein 1955 Jan p 80–86	pain, 'scars of human evolution' 1951 Dec p 54-57 [632]
Pascal's triangle, mathematics, probability, combinatorial analysis, normal curve, Brownian motion, Markov chain, statistics,	penguin, sexual behavior, behavioral adaptation, Antarctica, natural
probability theory 1964 Sept p 92–108	history 1957 Dec p 44-51 animal migration, animal navigation, Antarctica, Adelie penguin
passive transport, active transport, pinocytosis, phagocytosis, cytology,	navigation system 1966 Oct p 104-113
osmosis, cell membrane, fertilization, functions of cell membranes	penicillin, antibiotics, streptomycin, aureomycin, chloramphenicol,
1961 Sept p 167–180 [96]	infectious disease, the antibiotic revolution 1952 Apr p 49-57
passive trapper, carnivorous plants, active trapper, digestive enzymes,	mutation, drug resistance, bacteriology 1961 Mar p 66-71
natural history 1978 Feb p 104–155 [1382] patent ductus arteriosus, cardiac prostheses, cardiac surgery, heart-lung	bacterial cell, cell wall, bacterial metabolism, polysaccharides,
machine, Fallot tetralogy, technology and technique of open-heart	glycopeptides, membrane 1969 May p 92–98
surgery 1960 Feb p 76–90	synthesis of 'natural' penicillin 1957 May p 63 penicillin mold, algae, deuterium, reaction kinetics, metabolism of
patent law, Atomic Energy Act, power, licensing, international	
cooperation, military secrecy, inernational cooperation, major	mammals, heavy water biology 1960 July p 106-116 penicillin resistance, evolution, E coli, mutation rate, evolution observed
provisions of Atomic Energy Act of 1954 1954 Nov p 31-35	1953 Oct p 78–83
royalties for U-235 production process 1958 Dec p 54 rapid-growth technology 1973 July p 46	staphylococcus aureus 1960 Nov. n. 00
patent-law reform, commerce, invention, technology 1973 July p 46 patent-law reform, commerce, invention, technology 1967 June p 19–27	Penicillium notatum, mycology, fungi, wheat rust, ergot, potato blight,
changes proposed 1967 Apr. p. 48	morel, amanuta, yeast, molds and men 1952 Jan p 28–32 [115]
pattern recognition, computer technology, artificial intelligence	Pennsylvanian period, coal, fossil, flora, Mississippian period, Carboniferous period, tropical flora, deposition of coal
Chinese language computer translation exponent was a 1960 Aug p 60-68	1948 July n. 46 51
Chinese language, computer translation, experiment in machine translation 1963 lung p. 124, 125	penny-pitching, computer contest
translation 1963 June p 124-135 memory, visual search, visual scanning information processing,	r copie s Republic of Cilina, agricultural technology, industrial
reading 1964 June p. 04_102 (496)	technology, economic development, technology in People's Republic
visual perception, computer graphics, stereoscopic images, texture	medical care, preventive medicine, primary care, 'barefoot doctors'
discrimination, depth perception 1965 Feb p 38-48 [318]	medicine, primary care, 'barefoot doctors'
•	1974 Apr p 19-27

predator-prey relationship, behavioral clues to evolution 1963 Apr p 144-15	beta decay, neutrino, muon neutrino, a particle interaction, 'weak' force, experiment demonstrating existence of muon neutrino
the rabbit flea and rabbit hormones 1965 Dec. p. 44.52 (1977)	magnetic monopoles, elementary particles, electromagnetic radiation
biological clock, malaria, Plasmodium, reproduction, gametocyte.	alternating-gradient synchrotron, 'eightfold way', omega minus
ants, insect behavior, animal communication, ant 'quests'	particle, bubble chamber, high-energy physics, US Brookhaien
comensalism, pheromones 1971 Mar n 86_93 11213	high-energy physics, storage rings, synchrotron, colliding beam
birds, finches, mimicry, sexual behavior, widow birds, animal behavior 1974 Oct p 92-98	accelerator, spark chamber 1966 Nov p 107-116
ants, social insect, pheromones, insect behavior, ant slavery	trajectory high-energy scattering 1967 Dec a 76
parathyroid hormone, calcium metabolism, phosphate metabolism, vitamin D, osteogenesis, parathyroid function	Van de Graaf generator, electrostatic belt generator, charge-changin accelerator, negative ion 1970 Aug p 24 collective-effect accelerators, electron-ring accelerator, particle-store
1961 Apr. p. 56-63 [86]	rings 1972 Apr p 22
Paré, military medicine, medicine, science history, surgery, life and work of Ambroise Pare 1956 Jan p 90-96	atomic nucleus, atomic structure, exotic atoms, kaonic atoms, muon atoms, pions, quantum mechanics, high-energy physics
parentage, blood typing, forensic medicine 1954 July p. 78–82.	1972 Nov p 102-
parental care, comparative psychology, emotional development, abnormal behavior, maternal deprivation, early experience and	beta decay, bubble chamber experiments, high-energy physics, hadrons, neutrino beam, positron 1973 Aug p 30
emotional development, experiments with rats	National Accelerator Laboratory, proton beam, neutrino beam,
1963 June p 138–146 [478] marine birds, phalarope, sexual behavior, animal behavior, sex role,	synchrotron 1974 Feb p 72- at Caltech 1952 Sept p
hormone 1969 June p 104-111	200 ft linear 1953 Feb p
animal behavior, innate behavior, learning, feeding behavior, sea gull chicks	at Oak Ridge 1953 May p
chicks 1969 Dec p 98-106 [1165] personality, child development, infant behavior, temperament,	'swindletron' 1954 Jan p breakdown at Columbia 1957 July p
interaction of temperament and environment, nature-nurture	12 5 Bev for Argonne 1958 Feb p
1970 Aug p 102–109 [529] animal behavior, crocodile, Nile crocodile, reptile	alternating-gradiant synchrotron at Brookhaven 1959 Feb p
1976 Apr p 114–124	efficiency of linear accelerator 1959 July P 24Bev synchroton 1960 Feb p
parity, elementary particles, 'weak' force, symmetry, quantum, particle	USSR state-of-the-art 1960 May P
interaction, right and left-handed particles breakdown of parity 1957 Apr p 45-53 [231]	alternating gradient synchrotron 1900 Sept P mounting of 'two-neutrino' experiment 1961 May P
antimatter, symmetry, elementary particles, 'weak' force, particle	anti-xi minus creation 1962 May P
interaction, recognition of 'fourth force' 1959 Mar p 72-84 [247] symmetry, time reversal, CPT mirror, mirror images	Cambridge Electron Accelerator 1962 May p antineutrinos and neutrinos 1962 Aug p
1965 Dec p 28-36 [301]	alignment of proton spin axes 1963 Mar P
time reversal, symmetry, charge conservation, lambda decay, CPT	U S research and development program 1963 July p t
conservation, proton spin, experiments in time reversal 1969 Oct p 88-101	site chosen for IIS 200 GeV accelerator 1967 Feb p :
violation of symmetry 1957 Mar p 62	supercooled electron accelerator 1968 June p 4
Parkinson's disease, link to 1918 flu pandemic 1961 Sept p 86 parthenogenesis, fertilization, sea urchin egg 1950 Dec p 46-49	NAT reaches decign energy 1972 July p 5
fertilization, progesterone, hyaluronidase, zona pellucida	teravolt proposal
1951 Mar p 44-47 in fowl 1956 May p 64	proton-anaproton stotage img
embryonic growth in fowl without fertilization 1961 Feb p 72	1978 Min P "
particle acceleration, cosmic radiation, massive nuclei, high-energy	particle bed, fluidization, petroleum cracking, turbulence, gas stream food processing 1968 July p 94-10
physics, Milky Way, magnetic field, supernovae, fundamental research, where do cosmic rays come from?	particle charge physical constants, measurement, velocity of light
1953 Sept p 64–70 [239]	electron mass, least-squares method, standards of measurement, Planck's constant, Rydberg constant 1970 Oct p 62-78 [337
cosmic radiation, cosmic ray showers, supernovae, galactic halo, synchrotron radiation, abundance, energies, sources of cosmic rays	particle counters, elementary particles, electron, proton, neutron
1969 Feb p 30-63	positron, mesons, photon, neutrino, particle accelerator, nuclear binding lorce, 'Meson Song' 1948 June p 26 39
particle accelerator, elementary particles, electron, proton, particle counters, neutron, positron, mesons, photon, neutron, nuclear	radiation counters, high-energy physics, how counters work 1950 July p 49-43
Lindian force (Monon Cong) 1948 Julie D 20-39	particle detector, particle physics semiconductor, solid state physics
high-energy physics, inventory of plant world-wide 1948 Oct p 18–19 cosmotron, Bevatron, high-energy physics, technology of high-energy	particle accelerator, semiconductor particle-detector 1962 Oct p 78-88 [284]
whiches may see into the Giga (hillion) Voll range 1991 100 P 20 23	particle interaction, elementary particles, parity, 'weak' force, symmetry,
strong-focusing synchrotron, plans for foo-billion-electron-voll	quantum, right and left-handed particles breakdown of panty 1957 Apr p 45-53 [231]
scintillation counter, electron-multiplier tube, scintillation counters 1953 Nov p 36-41	and the state of t
1954 Mar p 84-90	recognition of South force 1939 Mar D 14" 15"
research funding, USSR, high-energy physics 1956 Aug p 29-35	muon, electron 'weak' force, high energy physics, properties of massive negative particle 1961 July p 46, 55 [275]
thermonuclear reaction, element abundance, stenar events	colliding beam accelerator, high-energy physics proton proton
isotopes, synthetic elements, experimental 1956 Sept. p. 82-91	high energy physics gauge theory, field theory, 'weak' force
high-energy physics, particle-scattering experiments atomic nucleus, method and technology of high-energy physics 1960 Mar p 98-114	electromagnetic force 'strong' force 1974 July p 6 59 electromagnetic force gauge theory neutrino interactions 'weak' force
	and a set overent interactions 17/4 17% P 17
ductor solid state physics	particle physics, merons, strong interactions, nuclear randoms in the
semiconductor particle-detector 1962 Oct p 78-88 [284]	105 O 1 b of 105 [5 4]

mesons, pions, strong interactions, nuclear binding force, quantum of	
	chromosomal anomalies, computer analysis, computer graphics, computer recognition and classification of chromosomes
	1966 Apr p 40-46 [1040]
particle detector, semiconductor, solid state physics, particle	automatic cell sorting, blood cell analysis, computer analysis,
accelerator, semiconductor particle-detector 1962 Oct p 78-88 [284]	lymphocytes, automatic analysis of white cells 1970 Nov p 72-82 cluster-seeking algorithms, computer technology, reading machines
1001 7.1 70	1971 Apr p 56-71
oputh endinost action	eye movement, scan-path recordings, serial-recognition hypothesis,
the mostly promited that the same and the sa	visual perception 1971 June p 34–43 [537]
pion resonances 1962 June p 79	visual perception, information theory, computer graphics, 'block
atomic nucleus, strong interactions 1962 Nov p 70	visual perception, information theory, computer graphics, block
high-energy physics, intermediate boson 1964 Mar p 54	portraits', computer enhancement, recognition of faces
omega minus particle discovered 1964 Apr p 60	1973 Nov p 70–82
relation of electromagnetic and weak interactions forces	figure-ground perception, texture discrimination, visual perception,
1973 Nov p 48	perceptual limitations 1975 Apr. p 34-43 [563]
•	reading, letters, words, visual cues in recognition of letters and words
see also high-energy physics	1978 Jan p 122–130 [122]
article scattering, electromagnetic force, nuclear forces, proton, neutron,	Pauli, atom, exclusion principle, theoretical physics, antimatter, quantum
mesons, high-energy physics, fundamental research, what holds the	mechanics, structure of atoms and nuclei 1959 July p 74–86 [264]
nucleus together? 1953 Sept p 58-63	
article-scattering experiments, atomic nucleus, nuclear physics, high-	Pavlov, conditioned behavior, behavioral psychology, biography and
energy physics, electron scattering, models of the atomic nucleus	appraisal of I P Paylov 1949 Sept p 44-47
1956 July p 55–68 [217]	conditioned reflex, neurosis, operant conditioning, psychology,
atomic nucleus, science history, Rutherford, biography	thyroidectomy, stress, emotional behavior, neurosis, conditioned
1956 Nov p 93–104	reflex is shown to be a neurosis 1954 Jan p 48-57 [418]
high-energy physics, particle accelerator, atomic nucleus, method and	peasants, commerce, market, agricultural system, peasant markets in
	Haiti 1960 Aug p 112–122 [647]
technology of high-energy physics 1960 Mar p 98-114	peat bog. Stone Age hunters, organic relics, Neolithic archeology
particle-storage rings, collective-effect accelerators, electron-ring	
accelerator, particle accelerator 1972 Apr p 22–33	1952 May p 20–25
particle tracks, photographic emulsion, cosmic radiation, neutron, proton,	archeology, weapons deposits, organic relics, Danish history
electron, characteristic 'signatures' of particles 1956 May p 40-47	1953 Oct p 84–88
spark chamber, particle accelerator, cloud chamber, bubble chamber	pecking order, chicken, social behavior, sexuality and dominance
1962 Aug p 36–43	1956 Feb p 42–46 [471]
fission-track dating 1967 June p 51	aggression, group behavior, social psychology, experiments in group
particle-wave duality, see wave-particle duality	behavior 1956 Nov p 54-58 [154]
particles of wear, Beilby layer, ferrograph analysis, friction, lubrication,	communication, territorial behavior, pheromones, rabbits, scent glands,
	territorial marking by rabbit 1968 May p 116–126 [1108]
	animal behavior, courtship display, turkeys, sexual behavior, lek
particulates, air pollution, smog, 'blue haze', atmospheric inversion,	behavior, Welder Wildlife Refuge 1971 June p 112–118
ozone, peroxides, photochemistry 1955 May p 62-72	
climate, air pollution, atmospheric circulation, carbon dioxide	peer group, social deprivation, comparative psychology, rhesus monkeys,
'window', ozone, temperature of Earth, human activity and climatic	maternal deprivation, experiments in social deprivation
change 1971 Jan. p 32-42 [894]	1962 Nov p 136–146 [473]
cermets, composite materials, dispersion-strengthened composites,	peer review, NSF, research funding, university science, science policy,
fiber-reinforced composites 1973 July p 36-44	sociology of science 1977 Oct p 34–41 [698]
<u>.</u>	Peking man, human evolution, Homo erectus, fossil men, Java man,
parton model, antimatter, high-energy physics, colliding-beam	
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46-53 [630]
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104-113	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46-53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104-113 parts manufacture, automatic control, computer applications, machine	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46–53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98–105
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manufacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46-53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98-105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manufacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo,	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46-53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98-105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31-37
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manufacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46-53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98-105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31-37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manufacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80–86	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46-53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98-105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31-37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back pain, 'scars of human evolution' 1951 Dec p 54-57 [632]
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manifacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80–86 Pascal's triangle, mathematics, probability, combinatorial analysis,	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46–53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98–105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31–37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back pain, 'scars of human evolution' 1951 Dec p 54–57 [632] penguin, sexual behavior, behavioral adaptation, Antarctica, natural
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manufacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80–86 Pascal's triangle, mathematics, probability, combinatorial analysis, normal curve, Brownian motion, Markov chain, statistics,	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46-53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98-105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31-37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back pain, 'scars of human evolution' 1951 Dec p 54-57 [632] penguin, sexual behavior, behavioral adaptation, Antarctica, natural history 1957 Dec p 44-51
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manufacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80–86 Pascal's triangle, mathematics, probability, combinatorial analysis, normal curve, Brownian motion, Markov chain, statistics, probability theory 1964 Sept. p 92–108	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46-53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98-105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31-37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back pain, 'scars of human evolution' 1951 Dec p 54-57 [632] penguin, sexual behavior, behavioral adaptation, Antarctica, natural history 1957 Dec p 44-51 animal migration, animal navigation, Antarctica, Adelie penguin
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manufacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80–86 Pascal's triangle, mathematics, probability, combinatorial analysis, normal curve, Brownian motion, Markov chain, statistics, probability theory 1964 Sept. p 92–108 passive transport, active transport, pinocytosis, phagocytosis, cytology,	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46–53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98–105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31–37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back pain, 'scars of human evolution' 1951 Dec p 54–57 [632] penguin, sexual behavior, behavioral adaptation, Antarctica, natural history 1957 Dec p 44–51 animal migration, animal navigation, Antarctica, Adelie penguin navigation system 1966 Oct p 104–113
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manufacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80–86 Pascal's triangle, mathematics, probability, combinatorial analysis, normal curve, Brownian motion, Markov chain, statistics, probability theory 1964 Sept. p 92–108 passive transport, active transport, pinocytosis, phagocytosis, cytology, osmosis, cell membrane, fertilization, functions of cell membranes	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46–53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98–105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31–37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back pain, 'scars of human evolution' 1951 Dec p 54–57 [632] penguin, sexual behavior, behavioral adaptation, Antarctica, natural history 1957 Dec p 44–51 animal migration, animal navigation, Antarctica, Adelie penguin navigation system 1966 Oct p 104–113 penicillin, antibiotics, streptomycin, aureomycin, chloramphenicol,
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manifacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80–86 Pascal's triangle, mathematics, probability, combinatorial analysis, normal curve, Brownian motion, Markov chain, statistics, probability theory 1964 Sept. p 92–108 passive transport, active transport, pinocytosis, phagocytosis, cytology, osmosis, cell membrane, fertilization, functions of cell membranes 1961 Sept. p 167–180 [96]	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46–53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98–105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31–37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back pain, 'scars of human evolution' 1951 Dec p 54–57 [632] penguin, sexual behavior, behavioral adaptation, Antarctica, natural history 1957 Dec p 44–51 animal migration, animal navigation, Antarctica, Adelie penguin navigation system 1966 Oct p 104–113 penicillin, antibiotics, streptomycin, aureomycin, chloramphenicol,
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manifacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80–86 Pascal's triangle, mathematics, probability, combinatorial analysis, normal curve, Brownian motion, Markov chain, statistics, probability theory 1964 Sept. p 92–108 passive transport, active transport, pinocytosis, phagocytosis, cytology, osmosis, cell membrane, fertilization, functions of cell membranes 1961 Sept. p 167–180 [96]	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46–53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98–105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31–37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back pain, 'scars of human evolution' 1951 Dec p 54–57 [632] penguin, sexual behavior, behavioral adaptation, Antarctica, natural history 1957 Dec p 44–51 animal migration, animal navigation, Antarctica, Adelie penguin navigation system 1966 Oct p 104–113 penicillin, antibiotics, streptomycin, aureomycin, chloramphenicol, infectious disease, the antibiotic revolution 1952 Apr p 49–57 mutation, drug resistance, bacteriology 1961 Mar p 66–71
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manufacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80–86 Pascal's triangle, mathematics, probability, combinatorial analysis, normal curve, Brownian motion, Markov chain, statistics, probability theory 1964 Sept. p 92–108 passive transport, active transport, pinocytosis, phagocytosis, cytology, osmosis, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96] passive trapper, carnivorous plants, active trapper, digestive enzymes, natural history 1978 Feb p 104–155 [1382]	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46–53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98–105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31–37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back pain, 'scars of human evolution' 1951 Dec p 54–57 [632] penguin, sexual behavior, behavioral adaptation, Antarctica, natural history 1957 Dec p 44–51 animal migration, animal navigation, Antarctica, Adelie penguin navigation system 1966 Oct p 104–113 penicillin, antibiotics, streptomycin, aureomycin, chloramphenicol, infectious disease, the antibiotic revolution 1952 Apr p 49–57 mutation, drug resistance, bacteriology 1961 Mar p 66–71
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manufacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80–86 Pascal's triangle, mathematics, probability, combinatorial analysis, normal curve, Brownian motion, Markov chain, statistics, probability theory 1964 Sept. p 92–108 passive transport, active transport, pinocytosis, phagocytosis, cytology, osmosis, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96] passive trapper, carnivorous plants, active trapper, digestive enzymes, natural history 1978 Feb p 104–155 [1382]	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46–53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98–105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31–37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back pain, 'scars of human evolution' 1951 Dec p 54–57 [632] penguin, sexual behavior, behavioral adaptation, Antarctica, natural history ' 1957 Dec p 44–51 animal migration, animal navigation, Antarctica, Adelie penguin navigation system 1966 Oct p 104–113 penicillin, antibiotics, streptomycin, aureomycin, chloramphenicol, infectious disease, the antibiotic revolution 1952 Apr p 49–57 mutation, drug resistance, bacteriology 1961 Mar p 66–71 bacterial cell, cell wall, bacterial metabolism, polysaccharides,
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manufacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80–86 Pascal's triangle, mathematics, probability, combinatorial analysis, normal curve, Brownian motion, Markov chain, statistics, probability theory 1964 Sept. p 92–108 passive transport, active transport, pinocytosis, phagocytosis, cytology, osmosis, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96] passive trapper, carniv orous plants, active trapper, digestive enzymes, natural history 1978 Feb p 104–155 [1382] patent ductus arteriosus, cardiac prostheses, cardiac surgery, heart-lung	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46–53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98–105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31–37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back pain, 'scars of human evolution' 1951 Dec p 54–57 [632] penguin, sexual behavior, behavioral adaptation, Antarctica, natural history 1957 Dec p 44–51 animal migration, animal navigation, Antarctica, Adelie penguin navigation system 1966 Oct p 104–113 penicillin, antibiotics, streptomycin, aureomycin, chloramphenicol, infectious disease, the antibiotic revolution 1952 Apr p 49–57 mutation, drug resistance, bacteriology 1961 Mar p 66–71 bacterial cell, cell wall, bacterial metabolism, polysaccharides, glycopeptides, membrane 1969 May p 92–98
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manufacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80–86 Pascal's triangle, mathematics, probability, combinatorial analysis, normal curve, Brownian motion, Markov chain, statistics, probability theory 1964 Sept. p 92–108 passive transport, active transport, pinocytosis, phagocytosis, cytology, osmosis, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96] passive trapper, carniv orous plants, active trapper, digestive enzymes, natural history 1978 Feb p 104–155 [1382] patent ductus arteriosus, cardiac prostheses, cardiac surgery, heart-lung machine, Fallot tetralogy, technology and technique of open-heart	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46–53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98–105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31–37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back pain, 'scars of human evolution' 1951 Dec p 54–57 [632] penguin, sexual behavior, behavioral adaptation, Antarctica, natural history 1957 Dec p 44–51 animal migration, animal navigation, Antarctica, Adelie penguin navigation system 1966 Oct p 104–113 penicillin, antibiotics, streptomycin, aureomycin, chloramphenicol, infectious disease, the antibiotic revolution 1952 Apr p 49–57 mutation, drug resistance, bacteriology 1961 Mar p 66–71 bacterial cell, cell wall, bacterial metabolism, polysaccharides, glycopeptides, membrane 1969 May p 92–98 synthesis of 'natural' penicillin 1957 May p 63
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manifacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80–86 Pascal's triangle, mathematics, probability, combinatorial analysis, normal curve, Brownian motion, Markov chain, statistics, probability theory 1964 Sept. p 92–108 passive transport, active transport, pinocytosis, phagocytosis, cytology, osmosis, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96] passive trapper, carnivorous plants, active trapper, digestive enzymes, natural history 1978 Feb p 104–155 [1382] patent ductus arteriosus, cardiac prostheses, cardiac surgery, heart-lung machine, Fallot tetralogy, technology and technique of open-heart surgery	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46–53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98–105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31–37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back pain, 'scars of human evolution' 1951 Dec p 54–57 [632] penguin, sexual behavior, behavioral adaptation, Antarctica, natural history 1957 Dec p 44–51 animal migration, animal navigation, Antarctica, Adelie penguin navigation system 1966 Oct p 104–113 penicillin, antibiotics, streptomycin, aureomycin, chloramphenicol, infectious disease, the antibiotic revolution 1952 Apr p 49–57 mutation, drug resistance, bacteriology 1961 Mar p 66–71 bacterial cell, cell wall, bacterial metabolism, polysaccharides, glycopeptides, membrane 1969 May p 92–98 synthesis of 'natural' penicillin 1957 May p 63 penicillin mold, algae, deuterium, reaction kinetics, metabolism of
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manifacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80–86 Pascal's triangle, mathematics, probability, combinatorial analysis, normal curve, Brownian motion, Markov chain, statistics, probability theory 1964 Sept. p 92–108 passive transport, active transport, pinocytosis, phagocytosis, cytology, osmosis, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96] passive trapper, carnivorous plants, active trapper, digestive enzymes, natural history 1978 Feb p 104–155 [1382] patent ductus arteriosus, cardiac prostheses, cardiac surgery, heart-lung machine, Fallot tetralogy, technology and technique of open-heart surgery 1960 Feb p 76–90 patent law, Atomic Energy Act, power, licensing, international	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46–53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98–105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31–37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back pain, 'scars of human evolution' 1951 Dec p 54–57 [632] penguin, sexual behavior, behavioral adaptation, Antarctica, natural history 1957 Dec p 44–51 animal migration, animal navigation, Antarctica, Adelie penguin navigation system 1966 Oct p 104–113 penicillin, antibiotics, streptomycin, aureomycin, chloramphenicol, infectious disease, the antibiotic revolution 1952 Apr p 49–57 mutation, drug resistance, bacteriology 1961 Mar p 66–71 bacterial cell, cell wall, bacterial metabolism, polysaccharides, glycopeptides, membrane 1969 May p 92–98 synthesis of 'natural' penicillin 1957 May p 63 penicillin mold, algae, deuterium, reaction kinetics, metabolism of mammals, heavy, water biology 1960 July p 106–116
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manifacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80–86 Pascal's triangle, mathematics, probability, combinatorial analysis, normal curve, Brownian motion, Markov chain, statistics, probability theory 1964 Sept. p 92–108 passive transport, active transport, pinocytosis, phagocytosis, cytology, osmosis, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96] passive trapper, carnivorous plants, active trapper, digestive enzymes, natural history 1978 Feb p 104–155 [1382] patent ductus arteriosus, cardiac prostheses, cardiac surgery, heart-lung machine, Fallot tetralogy, technology and technique of open-heart surgery patent law, Atomic Energy Act, power, licensing, international cooperation, major	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46–53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98–105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31–37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back pain, 'scars of human evolution' 1951 Dec p 54–57 [632] penguin, sexual behavior, behavioral adaptation, Antarctica, natural history 1957 Dec p 44–51 animal migration, animal navigation, Antarctica, Adelie penguin navigation system 1966 Oct p 104–113 penicillin, antibiotics, streptomycin, aureomycin, chloramphenicol, infectious disease, the antibiotic revolution 1952 Apr p 49–57 mutation, drug resistance, bacteriology 1961 Mar p 66–71 bacterial cell, cell wall, bacterial metabolism, polysaccharides, glycopeptides, membrane 1969 May p 92–98 synthesis of 'natural' penicillin 1957 May p 63 penicillin mold, algae, deuterium, reaction kinetics, metabolism of mammals, heavy water biology 1960 July p 106–116 penicillin resistance, evolution, E coli, mutation rate, evolution observed
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manufacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80–86 Pascal's triangle, mathematics, probability, combinatorial analysis, normal curve, Brownian motion, Markov chain, statistics, probability theory 1964 Sept. p 92–108 passive transport, active transport, pinocytosis, phagocytosis, cytology, osmosis, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96] passive trapper, carniv orous plants, active trapper, digestive enzymes, natural history 1978 Feb p 104–155 [1382] patent ductus arteriosus, cardiac prostheses, cardiac surgery, heart-lung machine, Fallot tetralogy, technology and technique of open-heart surgery 1960 Feb p 76–90 patent law, Atomic Energy Act, power, licensing, international cooperation, military secrecy, inernational cooperation, major provisions of Atomic Energy Act of 1954 1954 Nov p 31–35	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46–53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98–105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31–37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back pain, 'scars of human evolution' 1951 Dec p 54–57 [632] penguin, sexual behavior, behavioral adaptation, Antarctica, natural history 1957 Dec p 44–51 animal migration, animal navigation, Antarctica, Adelie penguin navigation system 1966 Oct p 104–113 penicillin, antibiotics, streptomycin, aureomycin, chloramphenicol, infectious disease, the antibiotic revolution 1952 Apr p 49–57 mutation, drug resistance, bacteriology 1961 Mar p 66–71 bacterial cell, cell wall, bacterial metabolism, polysaccharides, glycopeptides, membrane 1969 May p 92–98 synthesis of 'natural' penicillin 1957 May p 63 penicillin mold, algae, deuterium, reaction kinetics, metabolism of mammals, heavy water biology 1960 July p 106–116 penicillin resistance, evolution, E coli, mutation rate, evolution observed
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manufacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80–86 Pascal's triangle, mathematics, probability, combinatorial analysis, normal curve, Brownian motion, Markov chain, statistics, probability theory 1964 Sept. p 92–108 passive transport, active transport, pinocytosis, phagocytosis, cytology, osmosis, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96] passive trapper, carniv orous plants, active trapper, digestive enzymes, natural history 1978 Feb p 104–155 [1382] patent ductus arteriosus, cardiac prostheses, cardiac surgery, heart-lung machine, Fallot tetralogy, technology and technique of open-heart surgery 1960 Feb p 76–90 patent law, Atomic Energy Act, power, licensing, international cooperation, military secrecy, inernational cooperation, major provisions of Atomic Energy Act of 1954 1954 Nov p 31–35 royalties for U-235 production process 1958 Dec p 54	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46–53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98–105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31–37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back pain, 'scars of human evolution' 1951 Dec p 54–57 [632] penguin, sexual behavior, behavioral adaptation, Antarctica, natural history 1957 Dec p 44–51 animal migration, animal navigation, Antarctica, Adelie penguin navigation system 1966 Oct p 104–113 penicillin, antibiotics, streptomycin, aureomycin, chloramphenicol, infectious disease, the antibiotic revolution 1952 Apr p 49–57 mutation, drug resistance, bacteriology 1961 Mar p 66–71 bacterial cell, cell wall, bacterial metabolism, polysaccharides, glycopeptides, membrane 1969 May p 92–98 synthesis of 'natural' penicilin 1957 May p 63 penicillin mold, algae, deuterium, reaction kinetics, metabolism of mammals, heavy water biology 1960 July p 106–116 penicillin resistance, evolution, E coli, mutation rate, evolution observed 1953 Oct p 78–83 staphylococcus aureus
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manufacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80–86 Pascal's triangle, mathematics, probability, combinatorial analysis, normal curve, Brownian motion, Markov chain, statistics, probability theory 1964 Sept. p 92–108 passive transport, active transport, pinocytosis, phagocytosis, cytology, osmosis, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96] passive trapper, carmivorous plants, active trapper, digestive enzymes, natural history 1978 Feb p 104–155 [1382] patent ductus arteriosus, cardiac prostheses, cardiac surgery, heart-lung machine, Fallot tetralogy, technology and technique of open-heart surgery 1960 Feb p 76–90 patent law, Atomic Energy Act, power, licensing, international cooperation, military secrecy, inernational cooperation, major provisions of Atomic Energy Act of 1954 1954 Nov p 31–35 royalties for U-235 production process 1958 Dec p 54 rapid-growth technology	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46–53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98–105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31–37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back pain, 'scars of human evolution' 1951 Dec p 54–57 [632] penguin, sexual behavior, behavioral adaptation, Antarctica, natural history 1957 Dec p 44–51 animal migration, animal navigation, Antarctica, Adelie penguin navigation system 1966 Oct p 104–113 penicillin, antibiotics, streptomycin, aureomycin, chloramphenicol, infectious disease, the antibiotic revolution 1952 Apr p 49–57 mutation, drug resistance, bacteriology 1961 Mar p 66–71 bacterial cell, cell wall, bacterial metabolism, polysaccharides, glycopeptides, membrane 1969 May p 92–98 synthesis of 'natural' penicillin 1957 May p 63 penicillin mold, algae, deuterium, reaction kinetics, metabolism of mammals, heavy water biology 1960 July p 106–116 penicillin resistance, evolution, E coli, mutation rate, evolution observed 1953 Oct p 78–83 staphylococcus aureus 1960 Nov p 90 Penicillium notatum, mycology, fungi, wheat rust, ergot, potato blight,
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manufacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80–86 Pascal's triangle, mathematics, probability, combinatorial analysis, normal curve, Brownian motion, Markov chain, statistics, probability theory 1964 Sept. p 92–108 passive transport, active transport, pinocytosis, phagocytosis, cytology, osmosis, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96] passive trapper, carnivorous plants, active trapper, digestive enzymes, natural history 1978 Feb p 104–155 [1382] patent ductus arteriosus, cardiac prostheses, cardiac surgery, heart-lung machine, Fallot tetralogy, technology and technique of open-heart surgery patent law, Atomic Energy Act, power, licensing, international cooperation, military secrecy, inernational cooperation, major provisions of Atomic Energy Act of 1954 1954 Nov p 31–35 1958 Dec p 54 1973 July p 46 patent-law reform, commerce, invention, technology	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46–53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98–105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31–37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back pain, 'scars of human evolution' 1951 Dec p 54–57 [632] penguin, sexual behavior, behavioral adaptation, Antarctica, natural history 1957 Dec p 44–51 animal migration, animal navigation, Antarctica, Adelie penguin navigation system 1966 Oct p 104–113 penicillin, antibiotics, streptomycin, aureomycin, chloramphenicol, infectious disease, the antibiotic revolution 1952 Apr p 49–57 mutation, drug resistance, bacteriology 1961 Mar p 66–71 bacterial cell, cell wall, bacterial metabolism, polysaccharides, glycopeptides, membrane 1969 May p 92–98 synthesis of 'natural' penicillin 1957 May p 63 penicillin mold, algae, deuterium, reaction kinetics, metabolism of mammals, heavy water biology 1960 July p 106–116 penicillin resistance, evolution, E coli, mutation rate, evolution observed 1953 Oct p 78–83 staphylococcus aureus Penicillium notatum, mycology, fungi, wheat rust, ergot, potato blight, morel, amanita, yeast, molds and men 1952 Jan p 28–37 [115]
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manifacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80–86 Pascal's triangle, mathematics, probability, combinatorial analysis, normal curve, Brownian motion, Markov chain, statistics, probability theory 1964 Sept. p 92–108 passive transport, active transport, pinocytosis, phagocytosis, cytology, osmosis, cell membrane, fertilization, functions of cell membranes 1961 Sept. p 167–180 [96] passive trapper, carnivorous plants, active trapper, digestive enzymes, natural history 1978 Feb p 104–155 [1382] patent ductus arteriosus, cardiac prostheses, cardiac surgery, heart-lung machine, Fallot tetralogy, technology and technique of open-heart surgery 1960 Feb p 76–90 patent law, Atomic Energy Act, power, licensing, international cooperation, military secrecy, inernational cooperation, major provisions of Atomic Energy Act of 1954 1954 Nov. p 31–35 royalues for U-235 production process 1958 Dec. p 54 rapid-growth technology 1975 June p 19–27 changes proposed 1967 June p 19–27 1967 Apr. p 48	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46–53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98–105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31–37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back pain, 'scars of human evolution' 1951 Dec p 54–57 [632] penguin, sexual behavior, behavioral adaptation, Antarctica, natural history 1957 Dec p 44–51 animal migration, animal navigation, Antarctica, Adelie penguin navigation system 1966 Oct p 104–113 penicillin, antibiotics, streptomycin, aureomycin, chloramphenicol, infectious disease, the antibiotic revolution 1952 Apr p 49–57 mutation, drug resistance, bacteriology 1961 Mar p 66–71 bacterial cell, cell wall, bacterial metabolism, polysaccharides, glycopeptides, membrane 1969 May p 92–98 synthesis of 'natural' penicillin 1957 May p 63 penicillin mold, algae, deuterium, reaction kinetics, metabolism of mammals, heavy water biology 1960 July p 106–116 penicillin resistance, evolution, E coli, mutation rate, evolution observed 1953 Oct p 78–83 staphylococcus aureus 1960 Nov p 90 Penicillium notatum, mycology, fungi, wheat rust, ergot, potato blight, morel, amanita, yeast, molds and men 1952 Jan p 28–32 [115] Pennsylvanian period, coal, fossil, flora, Mississispinan period.
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manifacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80–86 Pascal's triangle, mathematics, probability, combinatorial analysis, normal curve, Brownian motion, Markov chain, statistics, probability theory 1964 Sept. p 92–108 passive transport, active transport, pinocytosis, phagocytosis, cytology, osmosis, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96] passive trapper, carnivorous plants, active trapper, digestive enzymes, natural history 1978 Feb p 104–155 [1382] patent ductus arteriosus, cardiac prostheses, cardiac surgery, heart-lung machine, Fallot tetralogy, technology and technique of open-heart surgery 1960 Feb p 76–90 patent law, Atomic Energy Act, power, licensing, international cooperation, military secrecy, inernational cooperation, major provisions of Atomic Energy Act of 1954 1954 Nov p 31–35 royalues for U-235 production process 1958 Dec p 54 rapid-growth technology 1973 July p 46 patent-law reform, commerce, invention, technology 1967 June p 19–27 changes proposed 1967 Apr p 48 pattern recognition, computer technology, artificial intelligence	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46–53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98–105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31–37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back pain, 'scars of human evolution' 1951 Dec p 54–57 [632] penguin, sexual behavior, behavioral adaptation, Antarctica, natural history 1957 Dec p 44–51 animal migration, animal navigation, Antarctica, Adelie penguin navigation system 1966 Oct p 104–113 penicillin, antibiotics, streptomycin, aureomycin, chloramphenicol, infectious disease, the antibiotic revolution 1952 Apr p 49–57 mutation, drug resistance, bacteriology 1961 Mar p 66–71 bacterial cell, cell wall, bacterial metabolism, polysaccharides, glycopeptides, membrane 1969 May p 92–98 synthesis of 'natural' penicillin 1957 May p 63 penicillin mold, algae, deuterium, reaction kinetics, metabolism of mammals, heavy water biology 1960 July p 106–116 penicillin resistance, evolution, E coli, mutation rate, evolution observed 1953 Oct p 78–83 staphylococcus aureus Penicillium notatum, mycology, fungi, wheat rust, ergot, potato blight, morel, amanita, yeast, molds and men 1952 Jan p 28–37 [115]
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manufacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80–86 Pascal's triangle, mathematics, probability, combinatorial analysis, normal curve, Brownian motion, Markov chain, statistics, probability theory 1964 Sept. p 92–108 passive transport, active transport, pinocytosis, phagocytosis, cytology, osmosis, cell membrane, fertilization, functions of cell membranes 1961 Sept. p 167–180 [96] passive trapper, carnivorous plants, active trapper, digestive enzymes, natural history 1978 Feb p 104–155 [1382] patent ductus arteriosus, cardiac prostheses, cardiac surgery, heart-lung machine, Fallot tetralogy, technology and technique of open-heart surgery patent law, Atomic Energy Act, power, licensing, international cooperation, military secrecy, inernational cooperation, major provisions of Atomic Energy Act of 1954 1954 Nov. p 31–35 1958 Dec. p 54 1958 Dec. p 54 1957 June p 19–27 1967 Apr. p 48 pattern recognition, computer technology, artificial intelligence	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46–53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98–105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31–37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back pain, 'scars of human evolution' 1951 Dec p 54–57 [632] penguin, sexual behavior, behavioral adaptation, Antarctica, natural history 1957 Dec p 44–51 animal migration, animal navigation, Antarctica, Adelie penguin navigation system 1966 Oct p 104–113 penicillin, antibiotics, streptomycin, aureomycin, chloramphenicol, infectious disease, the antibiotic revolution 1952 Apr p 49–57 mutation, drug resistance, bacteriology 1961 Mar p 66–71 bacterial cell, cell wall, bacterial metabolism, polysaccharides, glycopeptides, membrane 1969 May p 92–98 synthesis of 'natural' penicillin 1957 May p 63 penicillin mold, algae, deuterium, reaction kinetics, metabolism of mammals, heavy water biology 1960 July p 106–116 penicillin resistance, evolution, E coli, mutation rate, evolution observed 1953 Oct p 78–83 staphylococcus aureus 1960 Nov p 90 Penicillium notatum, mycology, fungi, wheat rust, ergot, potato blight, morel, amanita, yeast, molds and men 1952 Jan p 28–32 [115] Pennsylvanian period, coal, fossil, flora, Mississippian period, Carboniferous period, tropical flora, deposition of coal
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manufacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80–86 Pascal's triangle, mathematics, probability, combinatorial analysis, normal curve, Brownian motion, Markov chain, statistics, probability theory 1964 Sept. p 92–108 passive transport, active transport, pinocytosis, phagocytosis, cytology, osmosis, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96] passive trapper, carmivorous plants, active trapper, digestive enzymes, natural history 1978 Feb p 104–155 [1382] patent ductus arteriosus, cardiac prostheses, cardiac surgery, heart-lung machine, Fallot tetralogy, technology and technique of open-heart surgery 1960 Feb p 76–90 patent law, Atomic Energy Act, power, licensing, international cooperation, military secrecy, inernational cooperation, major provisions of Atomic Energy Act of 1954 1954 Nov p 31–35 royalties for U-235 production process 1958 Dec p 54 rapid-growth technology 1973 July p 46 patent-law reform, commerce, invention, technology 1973 July p 46 patent-law reform, commerce, invention, technology 1960 Aug p 60–68 Chanese language, computer technology, artificial intelligence 1960 Aug p 60–68	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46–53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98–105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31–37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back pain, 'scars of human evolution' 1951 Dec p 54–57 [632] penguin, sexual behavior, behavioral adaptation, Antarctica, natural history 1957 Dec p 44–51 animal migration, animal navigation, Antarctica, Adelie penguin navigation system 1966 Oct p 104–113 penicillin, antibiotics, streptomycin, aureomycin, chloramphenicol, infectious disease, the antibiotic revolution 1952 Apr p 49–57 mutation, drug resistance, bacteriology 1961 Mar p 66–71 bacterial cell, cell wall, bacterial metabolism, polysaccharides, glycopeptides, membrane 1969 May p 92–98 synthesis of 'natural' penicillin 1957 May p 63 penicillin mold, algae, deuterium, reaction kinetics, metabolism of mammals, heavy water biology 1960 July p 106–116 penicillin resistance, evolution, E coli, mutation rate, evolution observed 1953 Oct p 78–83 staphylococcus aureus 1960 Nov p 90 Penicillium notatum, mycology, fungi, wheat rust, ergot, potato blight, morel, amanita, yeast, molds and men 1952 Jan p 28–32 [115] Pennsylvanian period, coal, fossil, flora, Mississippian period, Carbomiferous period, tropical flora, deposition of coal
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manifacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80–86 Pascal's triangle, mathematics, probability, combinatorial analysis, normal curve, Brownian motion, Markov chain, statistics, probability theory 1964 Sept. p 92–108 passive transport, active transport, pinocytosis, phagocytosis, cytology, osmosis, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96] passive trapper, carnivorous plants, active trapper, digestive enzymes, natural history 1978 Feb p 104–155 [1382] patent ductus arteriosus, cardiac prostheses, cardiac surgery, heart-lung machine, Fallot tetralogy, technology and technique of open-heart surgery 1960 Feb p 76–90 patent law, Atomic Energy Act, power, licensing, international cooperation, multiary secrecy, inernational cooperation, major provisions of Atomic Energy Act of 1954 1954 Nov p 31–35 royalties for U-235 production process 1958 Dec p 54 rapid-growth technology 1973 July p 46 patent-law reform, commerce, invention, technology 1967 June p 19–27 changes proposed 1967 Apr p 48 pattern recognition, computer technology, artificial intelligence 1960 Aug p 60–68 Chinese language, computer translation, experiment in machine translation 1963 June p 124–135	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46–53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98–105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31–37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back pain, 'scars of human evolution' 1951 Dec p 54–57 [632] penguin, sexual behavior, behavioral adaptation, Antarctica, natural history 1957 Dec p 44–51 animal migration, animal navigation, Antarctica, Adelie penguin navigation system 1966 Oct p 104–113 penicillin, antibiotics, streptomycin, aureomycin, chloramphenicol, infectious disease, the antibiotic revolution 1952 Apr p 49–57 mutation, drug resistance, bacteriology 1961 Mar p 66–71 bacterial cell, cell wall, bacterial metabolism, polysaccharides, glycopeptides, membrane 1969 May p 92–98 synthesis of 'natural' penicillin 1957 May p 63 penicillin mold, algae, deutenum, reaction kinetics, metabolism of mammals, heavy water biology 1960 July p 106–116 penicillin resistance, evolution, E coli, mutation rate, evolution observed 1953 Oct p 78–83 staphylococcus aureus 1960 Nov p 90 Penicillium notatum, mycology, fungi, wheat rust, ergot, potato blight, morel, amanita, yeast, molds and men 1952 Jan p 28–32 [115] Pennsylvanian period, coal, fossil, flora, Mississippian period, Carboniferous period, tropical flora, deposition of coal 1948 July p 48 People's Republic of China, agricultural technology undustrial
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manufacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80–86 Pascal's triangle, mathematics, probability, combinatorial analysis, normal curve, Brownian motion, Markov chain, statistics, probability theory 1964 Sept. p 92–108 passive transport, active transport, pinocytosis, phagocytosis, cytology, osmosis, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96] passive trapper, carnivorous plants, active trapper, digestive enzymes, natural history 1978 Feb p 104–155 [1382] patent ductus arteriosus, cardiac prostheses, cardiac surgery, heart-lung machine, Fallot tetralogy, technology and technique of open-heart surgery 1960 Feb p 76–90 patent law, Atomic Energy Act, power, licensing, international cooperation, military secrecy, inernational cooperation, major provisions of Atomic Energy Act of 1954 1954 Nov p 31–35 roy alties for U-235 production process 1958 Dec p 54 rapid-growth technology 1973 July p 46 patent-law reform, commerce, invention, technology 1967 June p 19–27 (hanges proposed 1973 July p 48 pattern recognition, computer technology, artificial intelligence 1960 Aug p 60–68 Chinese language, computer translation, experiment in machine translation 1963 June p 124–135 memory, visual search, visual scanning, information processing,	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46–53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98–105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31–37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back pain, 'scars of human evolution' 1951 Dec p 54–57 [632] penguin, sexual behavior, behavioral adaptation, Antarctica, natural history 1957 Dec p 44–51 animal migration, animal navigation, Antarctica, Adelie penguin navigation system 1966 Oct p 104–113 penicillin, antibiotics, streptomycin, aureomycin, chloramphenicol, infectious disease, the antibiotic revolution 1952 Apr p 49–57 mutation, drug resistance, bacteriology 1961 Mar p 66–71 bacterial cell, cell wall, bacterial metabolism, polysaccharides, glycopeptides, membrane 1969 May p 92–98 synthesis of 'natural' penicillin 1957 May p 63 penicillin mold, algae, deuterium, reaction kinetics, metabolism of mammals, heavy water biology 1960 July p 106–116 penicillin resistance, evolution, E coli, mutation rate, evolution observed 1953 Oct p 78–83 staphylococcus aureus 1960 Nov p 90 Penicillium notatum, mycology, fungi, wheat rust, ergot, potato blight, morel, amanita, yeast, molds and men 1952 Jan p 28–32 [115] Pennsylvanian period, coal, fossil, flora, Mississippian period, Carbomiferous period, tropical flora, deposition of coal 1948 July p 46–51 penny-pitching, computer contest 1954 July p 48 People's Republic of China, agricultural technology, industinal technology, economic development, technology in People's Papublic
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manufacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80–86 Pascal's triangle, mathematics, probability, combinatorial analysis, normal curve, Brownian motion, Markov chain, statistics, probability theory 1964 Sept. p 92–108 passive transport, active transport, pinocytosis, phagocytosis, cytology, osmosis, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96] passive trapper, carnivorous plants, active trapper, digestive enzymes, natural history 1978 Feb p 104–155 [1382] patent ductus arteriosus, cardiac prostheses, cardiac surgery, heart-lung machine, Fallot tetralogy, technology and technique of open-heart surgery 1960 Feb p 76–90 patent law, Atomic Energy Act, power, licensing, international cooperation, military secrecy, inernational cooperation, major provisions of Atomic Energy Act of 1954 1954 Nov p 31–35 royalties for U-235 production process 1958 Dec p 54 rapid-growth technology 1973 July p 46 patent-law reform, commerce, invention, technology 1967 June p 19–27 changes proposed 1967 Apr p 48 pattern recognition, computer technology, artificial intelligence 1960 Aug p 60–68 Chinese language, computer translation, experiment in machine translation 1963 June p 124–135 memory, visual search, visual scanning, information processing, reading 1964 June p 94–102 [486]	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46–53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98–105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31–37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back pain, 'scars of human evolution' 1951 Dec p 54–57 [632] penguin, sexual behavior, behavioral adaptation, Antarctica, natural history 1957 Dec p 44–51 animal migration, animal navigation, Antarctica, Adelie penguin navigation system 1966 Oct p 104–113 penicillin, antibiotics, streptomycin, aureomycin, chloramphenicol, infectious disease, the antibiotic revolution 1952 Apr p 49–57 mutation, drug resistance, bacteriology 1961 Mar p 66–71 bacterial cell, cell wall, bacterial metabolism, polysaccharides, glycopeptides, membrane 1969 May p 92–98 synthesis of 'natural' penicillin 1957 May p 63 penicillin mold, algae, deuterium, reaction kinetics, metabolism of mammals, heavy water biology 1960 July p 106–116 penicillin resistance, evolution, E coli, mutation rate, evolution observed 1953 Oct p 78–83 staphylococcus aureus 1960 Nov p 90 Penicillium notatium, mycology, fungi, wheat rust, ergot, potato blight, morel, amanita, yeast, molds and men 1952 Jan p 28–32 [115] Pennsylvanian period, coal, fossil, flora, Mississippian period, Carbomiferous period, tropical flora, deposition of coal 1948 July p 46–51 penny-pitching, computer contest 1954 July p 48 People's Republic of China, agricultural technology, industrial technology, economic development, technology in People's Republic of China
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manufacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80–86 Pascal's triangle, mathematics, probability, combinatorial analysis, normal curve, Brownian motion, Markov chain, statistics, probability theory 1964 Sept. p 92–108 passive transport, active transport, pinocytosis, phagocytosis, cytology, osmosis, cell membrane, fertilization, functions of cell membranes 1961 Sept. p 167–180 [96] passive trapper, carnivorous plants, active trapper, digestive enzymes, natural history 1978 Feb p 104–155 [1382] patent ductus arteriosus, cardiac prostheses, cardiac surgery, heart-lung machine, Fallot tetralogy, technology and technique of open-heart surgery 1960 Feb p 76–90 patent law, Atomic Energy Act, power, licensing, international cooperation, military secrecy, inernational cooperation, major provisions of Atomic Energy Act of 1954 1954 Nov. p 31–35 royalties for U-235 production process 1958 Dec. p 54 rapid-growth technology 1973 July p 46 patent-law reform, commerce, invention, technology 1973 July p 46 patent-law reform, commerce, invention, technology 1973 July p 46 patent-law reform, commerce, invention, experiment in machine translation, computer translation, experiment in machine translation 1960 Aug p 60–68 Chinese language, computer translation, experiment in machine translation 1963 June p 124–135 memory, visual search, visual scanning, information processing, reading 1964 June p 94–102 [486] visual perception, computer graphics, stereoscopic images, texture	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46–53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98–105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31–37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back pain, 'scars of human evolution' 1951 Dec p 54–57 [632] penguin, sexual behavior, behavioral adaptation, Antarctica, natural history 1957 Dec p 44–51 animal migration, animal navigation, Antarctica, Adelie penguin navigation system 1966 Oct p 104–113 penicillin, antibiotics, streptomycin, aureomycin, chloramphenicol, infectious disease, the antibiotic revolution 1952 Apr p 49–57 mutation, drug resistance, bacteriology 1961 Mar p 66–71 bacterial cell, cell wall, bacterial metabolism, polysaccharides, glycopeptides, membrane 1969 May p 92–98 synthesis of 'natural' penicillin 1957 May p 63 penicillin mold, algae, deuterium, reaction kinetics, metabolism of mammals, heavy water biology 1960 July p 106–116 penicillin resistance, evolution, E coli, mutation rate, evolution observed 1953 Oct p 78–83 staphylococcus aureus 1960 Nov p 90 Penicillium notatium, mycology, fungi, wheat rust, ergot, potato blight, morel, amanita, yeast, molds and men 1952 Jan p 28–32 [115] Pennsylvanian period, coal, fossil, flora, Mississippian period, Carbomiferous period, tropical flora, deposition of coal 1948 July p 46–51 penny-pitching, computer contest 1954 July p 48 People's Republic of China, agricultural technology, industrial technology, economic development, technology in People's Republic of China
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manufacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80–86 Pascal's triangle, mathematics, probability, combinatorial analysis, normal curve, Brownian motion, Markov chain, statistics, probability theory 1964 Sept. p 92–108 passive transport, active transport, pinocytosis, phagocytosis, cytology, osmosis, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96] passive trapper, carnivorous plants, active trapper, digestive enzymes, natural history 1978 Feb p 104–155 [1382] patent ductus arteriosus, cardiac prostheses, cardiac surgery, heart-lung machine, Fallot tetralogy, technology and technique of open-heart surgery 1960 Feb p 76–90 patent law, Atomic Energy Act, power, licensing, international cooperation, military secrecy, inernational cooperation, major provisions of Atomic Energy Act of 1954 1954 Nov p 31–35 roy alties for U-235 production process 1958 Dec p 54 rapid-growth technology 1973 July p 46 patent-law reform, commerce, invention, technology 1967 June p 19–27 (hanges proposed 1973 July p 48 pattern recognition, computer technology, artificial intelligence 1960 Aug p 60–68 Chinese language, computer translation, experiment in machine translation 1963 June p 124–135 memory, visual search, visual scanning, information processing,	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46–53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98–105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31–37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back pain, 'scars of human evolution' 1951 Dec p 54–57 [632] penguin, sexual behavior, behavioral adaptation, Antarctica, natural history 1957 Dec p 44–51 animal migration, animal navigation, Antarctica, Adelie penguin navigation system 1966 Oct p 104–113 penicillin, antibiotics, streptomycin, aureomycin, chloramphenicol, infectious disease, the antibiotic revolution 1952 Apr p 49–57 mutation, drug resistance, bacteriology 1961 Mar p 66–71 bacterial cell, cell wall, bacterial metabolism, polysaccharides, glycopeptides, membrane 1969 May p 92–98 synthesis of 'natural' penicillin 1957 May p 63 penicillin mold, algae, deuterium, reaction kinetics, metabolism of mammals, heavy water biology 1960 July p 106–116 penicillin resistance, evolution, E coli, mutation rate, evolution observed 1953 Oct p 78–83 staphylococcus aureus 1960 Nov p 90 Penicillium notatum, mycology, fungi, wheat rust, ergot, potato blight, morel, amanita, yeast, molds and men 1952 Jan p 28–32 [115] Pennsylvanian period, coal, fossil, flora, Mississippian period, Carbomferous period, tropical flora, deposition of coal 1948 July p 46–51 penny-pitching, computer contest 1954 July p 48 People's Republic of China, agricultural technology, industrial technology, economic development, technology in People's Republic

anthropology, central-place theory, market	networks, Guatemala, rur	al atomic structure and a
markets	1975 May p 66-	70
AAAS symposium rate of economic growth	1961 Feb p	periodic table, 'synthetic' elements, transporter and the state of the
pentide hand protein structure protein and	1972 Sept p	elements, stable isotopes, isotopes, first of a senes of articles
peptide bond, protein structure, protein synthe hydrogen bonds, tertiary structure, natur	esis, amino-acid sequence,	recounting the completion of the table of elements (43 freelym)
proteins	e, diversity and function of 1950 June p 32-41 [1	ollpromethium, 85[astatine] and 87[francium]) and the first five
proteins, zymogen, trypsin, proteolytic enzy	mes hydrolysis enzymes	Ularisuranic elements (93/neptunium), 94/phitonium), 95/amencium)
structure and function of protein-digestin	g enzymes	96[curium] and 97[berkelium]) 1950 Apr p 38-47 [242
	1964 Dec. p. 68-7	alpha decay, transuranium elements, isotopes, nuclear stability, beta
insulin, automatic synthesis, protein synthes	SIS, amino acide "solid	decay, radioactive decay, 'synthetic' elements, the 'superheavy' elements beyond 103 1969 Apr p 56-61
phase' method of synthesis, polystyrene b		permanent magnets, geomagnetism, electromagnetism, Blackett
pentide chain proteins amino code alabatata	1968 Mar p 56-74 [320	hypothesis, Elsasser-Bullard hypothesis, theories on origin of
peptide chain, proteins, amino acids, alpha heli and-key theory, how is a protein made?	ix, enzyme catalysis, lock-	terrestrial magnetism 1950 June p 20-24
peptides, kinins, kallidin, venom, inflammation	1953 Sept p 100-10	The state of the s
local hormones, production and distributi	on	Alnico 1970 Dec p 92-100 peroxides, air pollution, smog, 'blue haze', atmospheric inversion
	1962 Aug n 111-118 1132	particulates, ozone, photochemistry 1955 May p 62-72
perception, psychology, psychological testing, s	science, psychology 1900-	perpetual motion, thermodynamics, Maxwell's demon, second law of
1950	1950 Sept p 79-84	thermodynamics 1967 Nov p 103-110 [317]
conformity, social pressure	1955 Nov p 31–35 [450	
central nervous system, medulla, reticular for reflex, neurophysiology, attention and one	rmation, brain, motor	1968 Jan p 114-122
torion, nour opiny storogy, attention and one	1957 May p 54-60 [66]	Perseid trail, 11 seconds in moonlight 1950 Sept p 52
pain, psychology, neuropsychology, cultural	influence on pain	Persia, ancient trade, archeology, writing, Elamite culture, Mesopotamian culture, Sumer, Iran, Tepe Yahya
perception	1961 Feb p 41-49 [457]	1971 June p 102-111 [660]
visual perception, form perception, learning,	innate or learned form	Persian Gulf fields, Middle East oil, petroleum resources, energy
perception	1961 May p 66-72 [459]	economics, economic development, Iran, Irag, Saudi Arabia
brain hemispheres, cerebral dominance, split callosum, intelligence, language, localization	-brain experiments, corpus	
canosum, mienigence, language, localizano	on of brain function 1967 Aug p 24–29 [508]	
vision, retinal image-processing, visual percep		minicomputers FLEX LOGO SMALLTALK
	69 May p 104-114 [1143]	1977 Sept p 230-244 [384]
afterimages, phosphenes, vision, prosthesis fo	or blind, self-illumination	personal-transit systems, cities, urban transport, computer modeling
of visual centers	1970 Feb p 82-87	systems analysis, mass transit 1969 July p 19-27
image processing, memory, linguistic material remembering what is seen	l, visual memory, 970 May p. 104–112 [528]	personality, visual perception, 'Ames room', aniseikonic lenses, anxiet) 'Hom' phenomenon, emotional relationships condition perception
auditory illusions, hearing, phonetics, speech		1959 Apr p 30-60
psychology, illusions as clues to organization		anxiety factor analysis 1963 Mar p 96–104 (475)
apparatus	1970 Dec p 30-33 [531]	behavior, self esteem, child development 1968 Feb p 96-106 [511]
crime, eye-witness testimony, memory, jury tr		child development, parental care, infant behavior, temperament,
and the annual and bear horsen have a seach	1974 Dec p 23-31 [562]	interaction of temperament and environment, nature-nurture 1970 Aug p 102-109 [529]
auditory perception, brain hemispheres, cereb illusions, handedness, hearing, illusions, two		seven factors 1950 June p 25
	1975 Oct p 92-104 [566]	Pers, photogrammetry, New World archeology, pre-Inca cities mapped
infant shape perception	1966 May p 56	by aerial photography 1951 Aug P 1873
perception of pictures, art, Escher's prints, optical		New World archeology, Viru valley 1954 Aug p 26-34 Playa Grande culture, New World archeology, history of a dig
visual perception perceptual development, child development, eye-	1974 July p 90–104 [560]	1955 Mar p 98-104
infant perceptions, object concept	1971 Oct p 30-38 [539]	agricultural production, poverty, education, economic development
perceptual illusions, central nervous system, drug	-induced imagery,	language, literacy, Cornell-Peru experiment in economic development 1957 Jan p 37-45
hallucination, perceptual-release theory 19	77 Oct p 132–140 [579]	development 1937 Jan p 57-15
perceptual isolation, electroencephalography, hall	lucination, boredom.	metallurgy, New World archeology, New World archeology, Old Copper culture, copper, gold, lost-wax casting, metalwork, pre
neuropsychology, sensory deprivation, effect monotonous environment	1957 Jan p 52–56 [430]	Columbian, New World, 4 000 B C
perceptual learning, psychology, learning, spatial		cave dwellers, stone tools, human evolution Ayacucho site 1971 Apr. p 36-46
behavior, innate vs acquired space perception	n 1956 July p 71–80	
perceptual memory, vision, eldetic images child p	sychology,	Peru Current, anchovy, guano, seagulls, El Niño upwelling 1954 Mar p 66-71
'photographic' memory perceptual transparency, color fusion, color scission	1969 Apr p 36–44 [522]	climate Inca civilization New World archeology, environmental
transparency, ontical illusion, transparency, v	visual perception	influences on early Peruvian cultures 1965 Oct P
· I	974 Apr p 90-98 [222]	anchovy crisis El Niño, fishing upwelling Peruvian anchovy 1973 June p 22-29 [1273]
percolation, brine, Red Sea hot brines, salinity, oc	ean floor, sea-floor 1970 Apr p 32-42	Demoise anchors, anchors crisis El Niño fishing unwelling, Peru
spreading	1970 Apr p 32-42 1978 June p 86	Current 1973 June p. 42-47 [1477]
perfect square, perfect square of order 21 perfumes, essential oils, oleoresins steam distillati	on, vacuum distillation.	pest control, rabbit plague, myxomatosis Australia 1954 Jeh p 30 35
· #	1722 Mus D 10	lamprey, jawless fish, Great Lakes trout whitefish 1955 Apr p 3/, 41 agricultural pest fire ants dieldrin insecticide 1958 Mrr p 3/, 41
and managings nerve condu	ction Schwann cen	histograph nest control screen worm fly X-ray sterilization citifs
axoplasm, membrane potential, cell perturbit	entration gradients	eradication of the screw worm fly 1977 (A.1. P. 27. 1
		see also biological pest control insecticide apricultural pest ar 1 tl
perihelion shift, artificial satellite, relativity theory,	Mercury, stellar shift,	like pesticide, see insecticide
electromagnetic frequency sinti, etc. para	1959 May p 149-160	Petra, Greek civilization Substantin Sear Fart artificing
electromagnetic frequency shift circk parado- testing Einstein's general theory of relativity periodic structures, diffraction gemsiones grain sti	ructure, opal colors	Heller 7st on of Arths 19/3 Oct p. 941 -
silica-sphere packing	1976 Apr p 84-95	
• -		

~=~

petrified wood, Eocene epoch, Yellowstone National Park, erosion,	barbiturates, hypnotics, tranquilizers, sedatives, anesthesia
volcanic sediments, petrified forests of Yellowstone 1964 Apr p 106-114	1958 Jan p 60-64 Phocomelia, thalidomide, technology assessment, U S F D.A in
petroglyphs, Paleolithic culture, rock drawings, Siberia, Paleolithic,	thalidomide catastrophe 1962 Aug p 29–35 [1100]
Neolithic periods 1969 Aug p 74–82 [649]	chelation, hemochromatosis, lead poisoning, drug action, Wilson's
petroleum, oil drilling, industrial technology, advances in drilling	disease, metal poisoning, heavy metal poisoning, bone cancer,
technicology 1958 Nov p 99–111 water mection, gas injection, secondary recovery 1965 July p 34–42	salicylates, aspirin, cancer therapy, chemotherapy, medical exploitation of chelates 1966 May p 40-50
water injection, gas injection, secondary recovery proteins, food production, petroleum fermentation 1965 Oct p 13-17	Cannabis sativa, marijuana, drug abuse, consciousness, sociology
energy economics, tar sands, oil shales, shale retorts, potential liquid-	1969 Dec p 17-25 [524]
hydrocarbon reserves 1966 Feb p 21–29	chemotherapy, drug effects, liver function, vaccine, hormone,
oil reserves, oil consumption, energy resources, OPEC, finite horizon of petroleum energy economy 1978 Mar p 42–49 [930]	antibiotics, medical care, herbial medicine 1973 Sept p 102–112 botanical collections, food plants, herbanium resources
petroleum energy economy 1978 Mar p 42–49 [930] tertiary recovery 1953 Oct p 56	1977 May p 96–104 [1359]
asphalt, for beneficiation of sandy soils 1967 Jan p 60	reserpine, synthesis 1956 July p 50
salt domes in deep-sea floor 1969 July p 54	proliferation of drugs 1961 July p 71
strike in Japanese offshore waters 1969 Oct p 48 petroleum consumption, surpasses coal 1953 Sept p 76	pharynx, music, voice, singing voice, larynx, acoustics of singing voice 1977 Mar p 82-91
petroleum consumption, surpasses coal 1953 Sept p 76 petroleum cracking, fluidization, particle bed, turbulence, gas stream,	phase memory, crystal structure, photon echoes, laser, nuclear-spin echo
food processing 1968 July p 94–104	1968 Apr p 32-40
catalysis, chemical reaction, industrial processes 1971 Dec p 46-58	phase transitions, explosions, shock waves, materials technology, solids
petroleum extraction, land subsidence, water injection	1969 May p 82–91
1967 June p 93-100 petroleum fermentation, proteins, petroleum, food production	superfluidity, helium 3, liquid phase, gas phase, solid state physics, quantum effects, quantum fluids 1976 Dec p 56-71
1965 Oct p 13–17	phase velocity, light velocity, radiowave, plasma, free-electron density,
petroleum refinery, automatic control, continuous processing. fluid	'things that go faster than light' 1960 July p 142–152
dynamics, control panel, automatic chemical plant	Ph.D.: Doctor of Philosophy
1952 Sept p 82–96	Ph.D.'s, origin and employment 1966 Mar p 57 in science and engineering, 130 per 1,000,000 U S population
petroleum reserves, fossil fuel, coal reserves, energy consumption liquid- fuel consumption, shale, tar sands, coal liquefaction, the fuel	1977 Sept p 96
problem 1949 Dec p 32–39	phenotype, genotype, gene expression, mutation 1949 Oct p 46-49
petroleum resin, mulch, inexpensive mulch 1963 Apr p 84	Lysenkoism Lamarck, acquired characteristics, genotype, evolution,
petroleum resources, Middle East oil, energy economics, Persian Gulf	mutation, ostrich calluses, speciation, religion, orthodoxy, Darwinism, experiments in acquired characteristics
fields, economic development, Iran, Iraq, Saudi Arabia 1948 Sept p 9–15	1953 Dec p 92–99
pets, operant conditioning, learning, babies, how to teach animals	pheromones, insect behavior, social insect, army ant, ants, comparative
1951 Dec p 26–29 [423]	psychology, reproduction, feedback, trophallaxis, natural history,
peyote, Native American Church 1951 Oct p 38	philosophy of science, anthropomorphism 1948 June p 16–23 insect physiology, sexual behavior, queen substance, muskone, social
pH: potential of hydrogen pH, galvanic cell, glass electrode, hydrogen ions, acidity	behavior, ants, Gypsy moths, mice 1963 May p 100–114 [157]
1951 Jan p 40-43	insecticide, insect attractant, synthetic attractants, chemotaxis, odor-
phage X174, DNA, gene mutation, single-stranded DNA	basted lure, third-generation insecticides 1964 Aug p 20-27 [189]
phagocytosis, leukocyte, infection, antibodies, 'the first line of defense'	communication, territorial behavior, rabbits, scent glands, pecking order, territorial marking by rabbit 1968 May p 116-126 [1108]
1951 Feb p 48–52 [51]	ants, insect behavior, animal communication, ant 'guests',
active transport, passive transport, pinocytosis, cytology, osmosis, cell	comensalism, parasitism 1971 Mar p 86–93 [1213]
membrane, fertilization, functions of cell membranes	chemotaxis, animal communication, builheads, catfish
1961 Sept p 167–180 [96] amoebae, cell motility, cytoplasmic streaming, sol-gel reaction, front	1971 May p 98-108 [1222] insect behavior, bee dances, sex attractants, courtship display
contraction theory of amoeboid motion 1962 Feb p 112–122 [182]	1972 Sept p 52–60 [1280]
autolysis, lysosomes, enzymes, pinocytosis, metamorphosis, cellular	gypsy moth, biological pest control, olfactory receptors, sex attractants
digestive organ, 'suicide bag' 1963 May p 64-72 [156] antigens, immune response, antibodies, hypersensitivity, inflammatory	silk moth, chemotaxis, communication 1974 July p 28-35 [1299] ants, social insect, parasitism, insect behavior, ant slavery
response, leukocyte, allergy, thymus gland, lymphatic system,	1975 June p 32–36 [1323]
cellular immunity 1964 Feb p 58-64	ants, insect behavior, social insect, weaver ants
autolysis, lysosomes, enzymes, lysis, chromosome breakage, lysosome implication in disease processes 1967 Nov p 62–72 [1085]	1977 Dec p 146-154 [1373]
implication in disease processes 1967 Nov p 62–72 [1085] gene expression, repressor molecules, operator-repressor system, lac	philanthropic foundations, Congressional investigation 1954 Mar p 44 hearings fizzle
repressor, lambda repressor, isolation of two gene repressors, how	nearings fizzle 1954 Sept p 70 verdict by pre-judgement 1955 Feb p 54
they work 1970 June p 36-44 [1179]	intimidated, anyway 1955 Mar n 50
'piggyback' phagocytosis phenomenon 1962 June p 86 Phalangida, harvestman, daddy longlegs, Arachnida, animal behavior,	Philips air engine, heat engines, external combustion engines, Stirling engine, hot-air engine 1948 July p. 52-55
natural history 1962 Oct p 119–128 [137]	engine, hot-air engine 1948 July p 52-55 philosopher's stone, alchemy, transmutation, science history
phalarope, manne birds, sexual behavior, animal behavior, parental care,	1952 Oct p. 72.76
sex role, hormone 1969 June p 104-111 pharaohs, Nile valley, Egyptian civilization, Sakkara, burial site, tombs of	Parentee Residence Property, mathematics, analytic geometry,
the first pharaohs 1957 July p. 106–116	Descartes, Rene Descartes, biography 1959 Oct p 160–173 Boyle's law, chemical experimentation, pneumatics, science history
pharmaceutical industry, prostheses, F.D.A., medical care, medical	1967 Aug = 06 102
economics drug prescription, drug research, medical laboratory services 1973 Sept p 161-166	Tarbara di Leibinitz, calculus, symbolic logic, calculating machine,
pharmacology, isoniazid, isotopes tuberculosis strentoms can para-	Leibnitz, biography 1968 May p 94-100 grammar, truth logic, sentence, metalogic, mathematical proof,
aminosalicylic acid, tracing action of TB drugs	antillion) of the liar, proof and truth 1969 June p. 62, 77
anesthesia pain, cocaine, procaine, surgery, medical research,	philosophy of salary and large numbers gambler's
neuropharmacology, psychiatry, research in pain suppression	Tanac proof 1000 c
1957 Jan p 70–82	topological limited for the state of the sta
	topological limits of physics 1953 Jan p 50–56

Godel's proof, mathematics, logic, paradox, undecidable problems in	photobiology, photosynthesis, chlorophyll, carotene, retinene, vision,
axioms of arithmetic 1956 June p 71-86 astronomy, galactic clusters, universe, planetary motion, solar system,	phototropism, bioluminescence, sunlight, life and light 1959 Oct p 92-108
cosmology, introduction to single-topic issue on the universe	visible light revives uv-killed bacteria 1949 May p 27
1956 Sept p 72–81	photocell, light amplification, photomultiplier, variable stars, stellar
cosmology, universe evolution, science history, a skeptical view of	temperature, interstellar matter 1952 Mar p %-59
cosmology 1956 Sept p 224-236	photochemistry, photography, emulsion, silver halide, photographic
gravity, inertia, Galilean relativity, Einstein, frames of reference,	development 1952 Nov p 30-33
relativity, identity of inertia and gravity 1957 Feb p 99-109 mathematics, Bourbaki, axiomatics, science history, labors of the	air pollution, smog, 'blue haze', atmospheric inversion, particulates ozone, peroxides 1955 May p 62-72
mathematical collective self-styled Bourbaki 1957 May p 88–99	photolysis, chemical reaction, reaction kinetics, free radicals
uncertainty principle, wave-particle duality 1958 Jan p 51-57 [212]	spectroscopy color centers, high speed chemistry
creativity, scientific revolution, Renaissance, Leonardo, introduction to	1960 May p 134-143
single-topic issue on innovation in science 1958 Sept p 58-65	afterimages, color vision, sensory discrimination, visual pigments
biology, evolution, natural selection, creativity, innovation in biology	photochemistry of color perception 1963 Oct p 84-93 [hv] vision, retina, photographic emulsion vidicon, television camera high
1958 Sept p 100–113 [48] chance, probability, odds, calculus of chances, causation, logician's	image detection, electronic camera 1908 Sept 9 110-117
point-of-view 1965 Oct p 44–54	light-matter interaction, flash photolysis, ultraviolet light, photolysis
confirmation theory, hypothesis-testing, logic, inductive proof,	4mmles state inhotograduction photogradual OD GVC
probability 1973 May p 75–83	1908 Sept p 136 118
Snow reaffirms 'two-culture' thesis 1963 Dec p 67	chloroplast, photosynthesis, electron transport, chlorophyll
phloem, xylem, plants, radioautography, sap circulation, transport of	meeting at the state of the sta
nutrients in plant tissue 1959 Feb p 44-49 [53]	
aphuds, sap circulation, xylem, trees, use of aphids to measure forces in san flow 1963 Mar p 132-142 [154]	photochromism, glass darkens on exposure to light 1964 Mar p 59
sap flow 1963 Mar p 132-142 [134] phlogiston, oxygen, chemistry, Priestley, life and work of Joseph Priestley	
1954 Oct p 68–73	electrostatics, xerography, electrostatic precipitation and separation
phlogiston theory, chemistry, science history, Lavoisier, biography of	and of Albert Finstein appraised
Antoine Lavoisier 1956 May p 84-94	photoelectric effect, relativity, Einstein, Work of Albert 1949 Mar p 52-55 at 70
electrochemistry, electrolysis, Davy lamp, science history, Humphry Davy biography 1960 June p 106-116	as a second offects CVIDIONALISE
Phobos, Deimos, Mars. Martian moons, Mariner spacecraft missions	radicals, lethal effects of radiation 1951 Dec p 22-28
1977 Feb p 30–37 [352]	quantum mechanics, Planck, science history, specifoscopy, blank
photographs from Viking I 1977 Apr p 57	resonators, Einstein, Compton circuit, quantities Mar p 47-54 [203]
Phocomelia, pharmacology, thalidomide, technology assessment, U.S.	- Lister operay transfolli the
FDA in thalidomide catastrophe 1962 Aug p 29-35 [1100]	solar battery, solid state physics, semiconductor, energy process of 102-110
Phoenician script, Hittites, Karatepe citadel 1949 Aug p 22-23 phonetics, attention mechanism, speech perception, hearing, cochlea,	spectroscopy, materials technology, color, laser, transparency, optical
neuropsychology hearing two messages at a time	properties of materials
1962 Apr p 143-131 [407]	color, reflection, refraction, light, resonance absorption photon for the electron, interaction of light with matter 1968 Sept p 60 71 electron, interaction of light with matter 1968 Jan p 46-51
auditory illusions, hearing, perception, speech perception, illusions,	
psychology, illusions as clues to organization of perceptual 1970 Dec p 30–33 [531]	Peru, New World archeology, pre-Inca cities mapped by aerial Peru, New World archeology, pre-Inca cities mapped by aerial 1951 Aug p 18-23
apparatus verbal communication, communication, acoustic formants,	photography
mortedness (unmarkedness dvad, mortinemes, syntax, context	photograph restoration, neutron activation of silver atoms 1966 Dec p 65
constructy invariant/variable dvad 1972 Sept p 72-00	photographic development, photography, emulsion, silver halide 1952 Nov p 30 13
phonology, language, Canary Islands, nonverbal communication,	photochemistry the pattern protein
whistling, the whistled language of La Gomera 1957 Apr p 111-118	photographic emulsion, particle tracks, cosine radiation 1956 May P 40-47
heat conduction cryogenics, thermoelectricity,	electron, characteristic signatures at the second light imige
machine machanics of heat conduction 1702 Dec P	
a la annual manage materials reculionery, meimor	
	photographic Is peselling, electronic specific in the computer
heat, diffusion, solid state physics, thermal waves, second sound, cryogenics, wave propagation, helium, thermal waves in solid helium	computer, mechanical composition 1969 May p 1877
	photographic weather maps, weather saterness
phosphate metabolism, calcium metabolism, parathyroid hormone,	atmospheric circulation, near to a 1961 July p 20 74
vitamin D, osteogenesis, parathyroid function 1961 Apr p 56-63 [86]	udeocameras Wealfier (ofceating)
	photochemistry 1954 Mir p 46
phosphatidic acid cycle, cell memorane, phosphotipus, new phosphotipus, nembrane transport potential 1965 Oct p 78–86 [1022]	by amplified light 1959 Mit P (2)
phosphatidyl choline, see leculin	color film process 1972 July P '''
phosphenes, afterimages, vision, perception, prosinces 1970 Feb p 82-87	Polaroid one-step system see also high speed photography see also high speed photography to follow a integrated circuity large scale integrated
illumination of visual centers	
phospholipids, cell membrane, phosphatide actu Cste, in the phosphatide actual phos	circuits manufacture to make a 1077 Sept p 110 128 1791
cell membrane, membrane npids, membrane 1072 Fab p. 30-38 [1241]	the many disease them, resisting this first
proteins active transport [972 ten p 30]	ridicals specification and the new particular transfer and transfe
proteins active transport phosphors, absorption line, energy emission, energy transformation [954 Oct p 62-66 [237]	the state of the s
phosphorus, berylliosis, occupational health, fluorescent light enclation 1958 Aug. p. 27-33	hight driplet state of oranguetion of the state of the first light triplet state of oranguetion of the state of the first light matter and the first light matter interaction of the fir
high technology discuse	tubes attended
phoenhours excle. ATP, mineral excles, or a mineral excles in the	bipotometer in spontant and the treat the figure of the street.
Mariena, Calluda i such a somo Comi in 14 ania 11 ania	Stellander L. Chillian
photic zone, sonar, echo-counding ocean floor phython deep-sea photic zone, sonar, echo-counding ocean floor phython deep-sea 1972 July p 44 50	
scattering liver, 'false bottom'	

	ATTO A Local all ablancalest among conturn of light energy in
molecular weight determination, polymers, light scattering, viscometer,	ATP, chlorophyll, chloroplast, primary capture of light energy in
how grant molecules are measured 1957 Nov p 90-97	photosynthesis 1960 Nov p 104–118
botometry, light scattering, molecular size, aerosol, hydrosol, Tyndall	ATP, chloroplast, mitochondrion, cell metabolism, glucogenesis, citric-
spectra, measurement 1953 Feb p 69-76	acid cycle, glycolysis, oxidative phosphorylation, cytology, cellular
hotomultiplier, photocell, light amplification, variable stars, stellar	transformation of energy 1961 Sept p 62–73 [91]
temperature, interstellar matter 1952 Mar p 56-59	algae, chloroplast, oxidative phosphorylation, Calvin cycle, path of
hoton, elementary particles, electron, proton, particle counters, neutron,	carbon in photosynthesis 1962 June p 88–100 [122]
positron, mesons, neutrino, particle accelerator, nuclear binding	chlorophyll, chloroplast, electron transfer, ATP, cytochrome, pigments,
force, 'Meson Song' 1948 June p 26–39	role of chlorophyll in photosynthesis, 1965 July p 74-83 [1016]
optical pumping, microwave spectroscopy, spectroscopy, quantum	anthracene, crystallography, electron transfer, exciton, plants, organic
jumps, technique and uses of optical pumping 1960 Oct p 72-80	crystals, conjugated aromatic hydrocarbons 1967 Jan p 86-97
erystallography, laser, light refraction, nonlinear optics, light	vision, photoperiodicity, visual pigments, phytochrome, chlorophyll,
interactions, ultraviolet radiation 1964 Apr p 38-49	retina cells, plant growth, light and living matter
photoelectric effect, color, reflection, refraction, light, resonance	1968 Sept p 174–186
absorption, electron, interaction of light with matter	chloroplast, photochemistry, electron transport, chlorophyll,
1968 Sept p 60-71	mechanism of photosynthesis 1969 Dec p 58-70 [1163]
electromagnetic radiation, Coulomb's law, quantum mechanics, mass	biosphere, Earth, evolution, environment, atmosphere-hydrosphere
of photon 1976 May p 86-96	cycles, introduction to single-topic issue on biosphere
neutron, weak as well as strong interaction 1965 Feb p 51	1970 Sept p 44-53 [1188]
photon echoes, crystal structure, phase memory, laser, nuclear-spin echo	solar radiation, biosphere, agricultural ecosystem, climax ecosystem.
1968 Apr p 32-40	energy cycle, ecosystem, food chain, respiration, biosphere energy
photon emission, diffraction, light, wave-particle duality, optics,	cycle 1970 Sept p 64-74 [1190]
interference, electromagnetic waves, introduction to single-topic	water cycle, transpiration, evaporation, runoff, agricultural system,
issue on light 1968 Sept p 50-59	ocean, precipitation, biosphere 1970 Sept p 98–108 [1191]
photooxidation, light-matter interaction, photochemistry, flash	chloroplast, oxygen cycle biosphere, aerobic metabolism, ozone,
photolysis, ultraviolet light, photolysis, triplet state, photoreduction,	oxidation-reduction reactions, geological record, oxygen-carbon
dve 1968 Sept p 158-170	balance 1970 Sept p 110–123 [1192]
photoperiodicity, plant hormones, germination, flowering, phototropism	calcium carbonate, carbon cycle, sedimentary rock, fossil fuel
1949 May p 40-43	combustion, biosphere, atmosphere, carbon dioxide
flowering, plant hormones, horticulture, control of flowering	1970 Sept p 125-132 [1193]
1952 May p 49-56 [113]	biosphere, energy cycle, respiration, power, radiation energy, solar
chmate, plant growth, greenhouse, agronomy, day-night temperature,	radiation, terrestrial radiation 1971 Sept p 88-100 [664]
'phytotron', environment simulator 1957 June p 82-94	chlorophyll, chloroplast, electron transfer, light absorption
flowering, plant circulation, pigment, hormone, photoperiodicity in	1974 Dec p 68-82 [1310]
regulation of plant physiology 1958 Apr p 108-117 [112]	bacteria, cell membrane, halobacteria, rhodopsin, salt-loving bacteria
entomology, insect diapause, Lepidoptera, hibernation governed by	1976 June p 38-46 [1340]
photoperiodicity 1960 Feb p 108-118	agricultural resources, gene manipulation, irrigation, food and
plant growth, phytochrome, germination, pigments, pigment,	agriculture 1976 Sept p 164-178
flowering, photoreceptive enzyme in plants 1960 Dec p 56-63	in vitro 1951 Sept p 52
vision, photosynthesis, visual pigments, phytochrome, chlorophyll,	light reaction 1953 Feb p 37
retina cells, plant growth, light and living matter	role of ATP 1960 Aug p 72
1968 Sept p 174-186	role of ferredoxin 1962 Oct p 60
biological clock, circadian rhythm, house sparrow, pineal organ,	theory of quantasone operation 1962 Dec p 71 four-carbon pathway, C4 effeciency 1972 Feb p 42
nonvisual light receptors 1972 Mar p 22-29 [1243] biological clock, circadian rhythm, diapause, dormancy, insect	four-carbon pathway, C4 effeciency 1972 Feb p 42 phototropism, plant hormones, germination, flowering photoperiodicity
behavior, insect metabolism 1976 Feb p 114–121 [1335]	1949 May p 40-43
in commencal greenhouses 1950 July p 26	purple bacteria, photosynthesis, sulfur bacteria 1951 Nov p 68-72
in animal life 1952 Nov p 50	plant movement, nastic movement, turgor movement, geotropism
photophoresis, dust cloud hypothesis, binary stars, gravitational collapse,	touch orientation 1955 Feb p 100-106
element abundance angular momentum, origin of the Earth	photosynthesis, chlorophyll, carotene, retinene, vision, photobiology,
1952 Oct p 53-61 [833]	bioluminescence, sunlight, life and light 1959 Oct p 92-108
light, radiation pressure, sound-wave pressure, analogy and distinction,	photos oltaic conversion, solar energy, light-to-heat conversion,
light- and sound-wave pressure 1957 June p 99–108	photosynthesis, limitations and prospects of solar power
photoreactivation, ultraviolet radiation, light, visible light reactivates	1950 Aug n 16~21
organisms killed by ultraviolet 1951 May p 22-25	electric power generation, semiconductor technology, silicon-crystal
photoreduction, light-matter interaction photochemistry, flash	structure, solar cells 1976 Oct p 34_43
photolysis, ultraviolet light, photolysis, triplet state, photooxidation,	Phrygian civilization, archeological excavation, Gordion, Alexander, 700
dje 1968 Sept p 158-170	BC, preclassical Greek link with East 1959 July p 100_109
photosphere, magnetic field solar magnetism. Sun cycle, chromosphere,	physical anthropology, human evolution, effect of diet on hereditary
solar atmosphere, 11-year solar cycle explained 1966 Nov p 54-62	features 1958 Aug p 52
chromosphere, corona, eclipse phenomena, solar corona, Sun	physical chemistry, molecular biology, interdisciplinary collaboration,
photosynthesis, chlorophyll, carbon dioxide, water, tracer experiments	antigen-antibody reaction, collaboration of G Beadle and L Pauling
1948 Aug. p 24–35	minimum energy, chemical reaction 1949 May p 16–21
solar energy, light-to-heat conversion, photovoltaic conversion,	minimum energy, chemical reaction 1966 May p 61
limitations and prospects of solar power 1950 Aug p 16-21	physical constants, measurement, velocity of light, electron mass, particle charge, least-squares method, standards of measurement, Planck's
purple bacteria, phototropism sulfur bacteria 1951 Nov p 68-72	constant, Rydberg constant 1970 Oct p. 62–78 13371
atmosphere, escape velocity, volcanoes, water of crystallization,	physical incapacitation, medical care, medicine, morbidity, mortality
nitrogen, oxygen, origin and evolution of Earth's atmosphere	rates, hospital care, ambulatory care, triage, health insurance,
1953 Aug n 82-86 [824]	introduction to single-topic issue on medical care
chloroplast, grana, Hill reaction 1953 Nov p 80-84	1072 5 22 22
origins of life, Miller-Urey experiment, high-energy radiation,	physical models, physics, mathematical model, creativity, innovation in
heterotrophs, fermentation, autotrophs 1954 Aug. p 44–53 [47]	pir/sics 10co c
carotenoids, chloroplast, chlorophyll biology of pigments	
1936 Ian in XII.X6	Projection Selections, Social Dilysics, Social sciences characters and and
chlorophyll carotene, retinene vasion, photobiology, phototeography	social statistics and physical law
chlorophyll carotene, retinene vision, photobiology, phototropism,	social statistics and physical law mathematics group theory, 'eightfold way' field theory. See May p 20–23
chlorophyll carotene, retinene vision, photobiology, phototropism, bioluminescence, sunlight, life and light 1959 Oct p 92–108	social physics, social sciences, statistics, correlating

physical standards, all atomic 1950 Oct. p. 26 hieroglyphs, writing, ideographs, Mesopotamia, origin of writing in physical transparency, color fusion, color scission, perceptual transparency, optical illusion, transparency, visual perception clay tokens 1978 June p. 50-59 [708] picture elements, color television, line structure, field-scanning rate, 1974 Apr. p. 90-98 [559] physics, harmony, string instruments, wind instruments, piano, voice, technology assessment, competing color television systems weighed musical scale, acoustics, agreeable melodies and physical laws 1950 Dec. p. 13-17 picturephone test, televised telephoning 1964 July p. 48 1948 July p. 32-41 pictures as objects, visual perception, optical illusion, size constancy, 'How Nice To Be a Physicist', songs by Arthur Roberts distortion, illusions arise from normally useful mechanisms 1948 Sept. p. 50-51 crystal structure, polygons, polyhedra, axis of rotation, philosophy of 1968 Nov. p. 66-76 [517] pidgin, linguistics. Creole, gullah, colonialism, grammar, evolution and science, topological limits of physics 1953 Jan. p. 50-56 elaboration of colonial languages politics, cosmology, Laplace, life and work of Pierre Simon de Laplace 1959 Feb. p. 124-134 piezoelectricity, quartz, crystal structure, ultrasonic transducer, nature 1954 June p. 76-81 and uses of piezoclectricity 1949 Dec. p. 46-51 humor, language, jocular physics, broken English, tribute to Niels Bohr bone, osteogenesis, collagen, calcium metabolism, bone adaptation to 1956 Mar. p. 93-102 mechanical stress 1965 Oct. p. 18-25 [1021] physical models, mathematical model, creativity, innovation in physics piezometrie surface, ground water, artesian well, water table, water cycle, 1958 Sept. p. 74-82 resource management, runoff, ground water in water-resource see also: high-energy physics, particle physics, quantum mechanics and management 1950 Nov. p. 14-19 [818] the like pig, laboratory animals, comparative physiology, small pig as physics curriculum, high school, curriculum reform, science teaching, experimental animal, resemblance to man Physical Science Study Committee, university sponsored curriculum 1966 June p. 94-100 [1045] 1958 Apr. p. 56-64 [229] pigment, flowering, photoperiodicity, plant circulation, hormone, physics in U.S.S.R., same interests 1955 May p. 51 photoperiodicity in regulation of plant physiology physics of brasses, musical instruments, horn flare, trumpet bell, trumpet 1958 Apr. p. 108-117 [112] 1973 July p. 24-35 plant growth, phytochrome, photoperiodicity, germination, pigments, physiological adaptation, mouse, water retention, behavioral adaptation, flowering, photoreceptive enzyme in plants 1960 Dec. p. 56-63 Mus musculus, commensal of man 1969 Oct. p. 103-110 [1159] pigment synthesis, carotenoids, flower pigments, flavonoids, physiological age, measured by nitrogen turnover 1949 Dec. p. 29 anthocyanins, biochemistry and genetics of flower pigments physiological psychology, diabetes insipidus, thirst, salt excretion, 1964 June p. 84-92 [186] electrolyte balance, thermoregulation, urine, kidney, osmoreceptor pigmentation, behavioral adaptation, 'cold-blooded' animals, theory of thirst, Cannon 'dry mouth' theory thermoregulation, lizard, reptile, behavioral thermoregulation 1956 Jan. p. 70-76 acetylcholine, hormone, nerve impulse, serotonin, synapse, emotional 1959 Apr. p. 105-120 illness, neurotransmitters, central nervous system, chemical hormone, skin color, melanín, melanocytes, melatonin 1961 July p. 98-108 mediation of nerve impulses 1957 Feb. p. 86-94 hypnosis, sleep, suggestibility, experiments in hypnosis pigments, solar energy, light absorption, energy conversion, solar 1956 June p. 97-106 1957 Apr. p. 54-61 animal behavior, bioelectricity, electrically controlled behavior plant growth, phytochrome, photoperiodicity, germination, pigment, 1960 Dec. p. 56-63 1962 Mar. p. 50-59 [464] flowering, photoreceptive enzyme in plants color vision, retina, cone cells, ganglion cells, spectrophotometry, threeanimal behavior, sex differences, hypothalamus, testosterone, sex 1964 Dec. p. 48-56 [197] hormones, pituitary hormones, sex differences in rat brain, effect of color receptor system chlorophyll, photosynthesis, chloroplast, electron transfer, ATP, testosterone 1966 Apr. p. 84-90 [498] cytochrome, role of chlorophyll in photosynthesis, attention, learning, novelty, conflict, monotony, conflict and arousal, 1965 July p. 74-83 [1016] aid to learning 1966 Aug. p. 82-87 [500] pillow lava, remanent magnetism, mid-Atlantic rift, ocean ridges, seaphysiological tremor, muscle contraction, sensory feedback floor spreading, submersible research craft 1975 Aug. p. 79-90 [918] 1971 Mar. p. 65-73 [1217] pilot error, psychology, instrument panel, ergonomics, designing physiology, nervous system, endocrine system, respiration, nerve impulse, 1953 Apr. p. 74-82 [496] muscle contraction, science, physiology 1900-1950 instrument panels for their users 1954 Jan. p. 38 1950 Sept. p. 71-76 Piltdown man, compound fraud pinch effect, fusion reactor, nuclear power, magnetohydrodynamics, microsurgery, laser, cell, laser lesions, cell organelle plasma containment, thermonuclear reaction, thermonuclear energy 1970 Feb. p. 98-110 [1170] 1957 Dec. p. 73-84 [236] counter-current exchange, rete mirabile, heat conservation, swim for domestic power Pine Lawn Valley, New World archeology, Cochise culture, Mogolion bladder, kidney, gill, physics of a physiological invention culture, 2500 B.C. to 1300 A.D. in New Mexico 1951 July p. 46-51 1957 Apr. p. 96 pineal organ, adrenal gland, biological clock, estrogens, progesterone, see also: neurophysiology, physiological psychology, comparative melatonin, serotonin, pineal regulation of sex glands physiology, human physiology 1965 July p. 50-60 [1015] physostigmine, alkaloids, plant physiology, morphine, strychnine, biological clock, circadian rhythm, house sparrow, photoperiodicity, 'hemlock', caffeine, coniine, quinine, cocaine, ricinine, LSD, human 1972 Mar. p. 22-29 [1243] nonvisual light receptors toxins in plant physiology 1959 July p. 113-121 [1087] pink tooth disease, porphyria, dermatology, gene pool, tracking porphyria phytochrome, plant growth, photoperiodicity, germination, pigments, 1957 Mar. p. 133-142 among Afrikaaners pigment, flowering, photoreceptive enzyme in plants pinks, alpine environment, cushion plant, lammergeier, Himalayan 1960 Dec. p. 56-63 1961 Oct. p. 68-78 mountain ecology vision, photosynthesis, photoperiodicity, visual pigments, chlorophyll, pinocytosis, cell membrane, cytology, cell metabolism, ingestion by outer retina cells, plant growth, light and living matter 1961 Apr. p. 120-130 membrane 1968 Sept. p. 174-186 active transport, passive transport, phagocytosis, cytology, osmosis, cell phytoplankton, algae, kelp, food chain, algin, agar 1952 Dec. p. 15-17 membrane, fertilization, functions of cell membranes 1958 Oct. p. 56 antibiotic properties of Antarctic phytoplankton 1961 Sept. p. 167-180 [96] 1949 Dec. p. 30 pi constant, to 2,040 places autolysis, lysosomes, enzymes, phagocytosis, metamorphosis, cellular piano, physics, harmony, string instruments, wind instruments, voice, 1963 May p. 64-72 [156] digestive organ, 'suicide bag' musical scale, acoustics, agreeable melodies and physical laws 1959 July p. 68 in amoebae 1948 July p. 32-41 pions, mesons, strong interactions, particle physics, nuclear binding force, musical instruments, music, harmonics, harpsichord, physics of the 1957 Jan. p. 84-92 [226] quantum of the strong force 1965 Dec. p. 88-99 high-energy physics, strange particles, muon, conservation of piano pictograph, nonverbal communication, anthropology, Easter Island strangeness, sorting out the multiplicity of particles 1958 June p. 61-68 1957 July p. 72-88 [213] Vinca culture, writing, Tartaria tablets, Romania, Sumer, cultural talking boards

1968 May p. 30-37

diffusion, Sumerian writing



mesons, particle accelerator, proton, quark, high-energy physics, nucleons, Regge trajectory, high-energy scattering 1967 Dec. p. 76-91	planetary atmosphere, Jupiter, Taylor column, Great Red Spot, rotation period, hydrodynamic explanation vs. raft hypothesis 1968 Feb. p. 74-83
atomic nucleus, atomic structure, exotic atoms, kaonic atoms, muonic	Jupiter, Jovian meteorology, planets, solar system, Great Red Spot
atoms, particle accelerator, quantum mechanics, high-energy physics 1972 Nov. p. 102-110	1976 Mar. p. 46-50 planetary motion, astronomy, philosophy of science, galactic clusters,
peline transportation, anhydrous ammonia fertilizer 1968 Oct. p. 61	universe, solar system, cosmology, introduction to single-topic issue on the universe 1956 Sept. p. 72-8'
ipelines, natural gas, economic regionalism in U.S., appraisal of natural gas, economics and resources in U.S. 1951 Nov. p. 17-21	Antikythera, Greek computer, ancient instruments, science history,
agricultural irrigation, canals, hydro-engineering, Jordan Valley Plan,	Classical archeology, computer technology, 2,000-year-old computer 1959 June p. 60-6
fluid dynamics, oil, gas, slurries, history and technology of pipelines	calendar, solar system, time, heliocentric theory, year, astronomy,
1967 Jan. p. 62–12	Copernicus, astronomy, Copernicus, length of calendar year 1966 Oct. p. 88-98
natural gas, liquid natural gas, tankers, storage, distribution of LNG 1967 Oct. p. 30-37	Doppler effect, radar astronomy, delay-Doppler mapping, Mercury,
network analysis, nodes and branches, powergrids, graph theory, reliability analysis 1970 July p. 94-103	Venus, microwaves 1968 July p. 28-3' Kepler's laws, science history 1972 Mar. p. 92-100
energy economics, energy storage, economic geography, power	see also: orbital motion
transmission, tankers, power, economic geography of energy production, distribution and consumption	planetary motion models, Copernicus, Tycho Brahe, solar system, science history, Tycho's notes in de Revolutionibus 1973 Dec. p. 86-10.
1971 Sept. p. 164-175 [669]	planetary nebulae, spectroscopy, nebulae, shells of luminous gas around
pit viper, rattlesnake, fangs, high-speed photography, rattlesnake 'bite' is a stab 1953 Oct. p. 100-102	hot, dense stars 1963 Apr. p. 60-6' planetary systems, extraterrestrial intelligence, interstellar
pituary gland, ACTH, hormone function 1964 May p. 62	communication, origins of life, cyclops project 1975 May p. 80-89 [347
pituitary control, hormone, hypothalamic hormone, luteinizing hormone, neurohumoral factors, thyroid-stimulating hormone, TSH	multiple-star systems, sunlike stars, frequency of 'solar systems', survey
1972 Nov. p. 24-33 [1260]	of 123 nearby stars 1977 Apr. p. 96-104 planetisimal collisions, albedo, asteroids, meteorites, solar system
pituitary gland, ACTH, gonadotrophic hormones, metabolic hormones, growth hormone, endocrine system, the master gland	formation, primordial dust cloud , 1975 Jan. p. 24-3;
1950 Oct. p. 18–22	planets, Palomar Observatory, photographs of the planets by 200-inch telescope 1953 Feb. p. 17-2
goiter, thyroid, metabolism control, thyroxin, role of thyroid in governing metabolism 1960 Mar. p. 119-129	interferometry, solar system, moon, ionosphere, radar astronomy,
adrenal gland, ACTH, cell communication, molecular structure of ACTH, relation to function 1963 July p. 46-53 [160]	technology and promise of radar astronomy 1960 Aug. p. 50-59 Jupiter, Venus, solar system, radio astronomy, measuring planetary
amphibian, metamorphosis, frog, thyroxin, hypothalamus,	surface temperature 1961 May p. 58-65
neurosecretory system, hormone, chemistry of amphibian metamorphosis 1966 May p. 76-88 [1042]	Martian topography, Mariner 9 results, Martian atmosphere, solar system, space exploration, polar cap, 'braided' channels, dune fields,
pituitary hormones, animal behavior, sex differences, hypothalamus,	photomosaic, volcanoes on Mars 1973 Jan. p. 48-69 chondrites, element formation, solar system chemistry, space
testosterone, physiological psychology, sex hormones, sex differences in rat brain, effect of testosterone 1966 Apr. p. 84-90 [498]	exploration, stellar evolution 1974 Mar. p. 50-65
ACTH, adrenal hormones, glucocorticoids, stress 1971 Jan. p. 26-31 [532]	solar system, space exploration, Sun, introduction to single-topic issue on the solar system 1975 Sept. p. 22-3;
synthesized 1953 Dec. p. 50	Mercury, solar system, craters, Mariner 10 mission 1975 Sept. p. 58-68
vasopressin synthesized 1956 Sept. p. 112 pituitary insufficiency, ateliosis, midgets, dwarfism, genetic disease,	solar system, Earth, Venus, cratering, Venutian atmosphere 1975 Sept. p. 70-78
congenital anomalies, consanguinity, growth hormone deficiency,	Jupiter, Jovian meteorology, planetary atmosphere, solar system, Great
panhypopituitarism, General Tom Thumb placebos, medical care, medical research 1967 July p. 102-110 1955 Aug. p. 68-71	Red Spot 1976 Mar. p. 46-50 planispheric astrolabe, ancient instruments, analogue computer,
doctor-patient relations, medical care, informed consent, medical ethics 1974 Nov. p. 17-23	astrolabe, science history, how they did it then 1974 Jan. p. 96-106 plankton, 'false bottom', marine biology, sonar, shrimp, heteropod, deep-
placenta, umbilical cord, fetus, anatomy and physiology of the umbilical	sea scattering layer, deep-sea 'layer of life' 1951 Aug. p. 24-28
cord 1952 July p. 70-74 fetus as transplant, histocompatability, immune response,	limnology, pond life, dissolved oxygen, thermocline, hypolimnion, oxidation-reduction balance in depths of a pond 1951 Oct. p. 68-72
immunological privilege, reproduction, trophoblast, nidation	food chain, krill, whale, Antarctic convergence, Euphausia superba
plague, disease, cholera, yellow fever, epidemiology 1953 Feb. p. 22-27	1958 Jan. p. 84-89 [853 sonar, echo-sounding, ocean floor, deep-sea scattering layer, photic
Chaga's disease, public health, 'zoonoses', parasitism, trypanosomiasis, malaria, filariasis, leishmaniasis, yellow fever, typhus, epidemiology,	zone, 'false bottom' 1962 July p. 44-50 sea, food chain, marine ecology, ocean, fish, marine life, life in the
animal infection and human disease 1960 May p. 161-170	ocean 1969 Sept. p. 146-162 [884
plague bacillus, bacterial toxin, Black Death, respiration, electron transport, mechanism of death by plague toxin 1969 Mar. p. 92-100	marine organisms, appendicularians 1976 July p. 94-102 plant biochemistry, carbon 14 traces plant uptake 1961 Oct. p. 81
planarian, learning, conditioned behavior, maze running, 'protopsychology', evidence of learning in a primitive nervous system	plant breeding, wheat, einkorn, wild einkorn, emmer, hybrid cells fungi
1963 Feb. p. 54-62	chromosome doubling, origin and perfection of wheat 1953 July p. 50-59
Planck, quantum mechanics, science history, spectroscopy, black body, resonators, Einstein, photoelectric effect, Compton effect, quantum	chemical mutagens, agronomy 1971 Jan. p. 86-95 [1210 corn, lysine, plant protein, agronomy, human nutrition, malnutrition,
jumps 1952 Mar. p. 47–54 [205]	mgn-lysine corn 1971 Aug. p. 34-42 [1229]
Planck's constant, measurement, Brownian motion, time, velocity, uncertainty principle, limits of measurement	disease-resistant plants, agronomy, plant disease, fungal infection
1950 July p. 48-51 [255] physical constants, measurement, velocity of light, electron mass,	plant pathogens, sugarcane, mechanism of disease resistance in
particle charge, least-squares method, standards of measurement,	agronomy, crop yields, rice, wheat, maize, food and agriculture plant
Rydberg constant 1970 Oct. p. 62-78 [337] planetary ages, cratering, meteorite bombardment, solar system	genetics 1976 Sept. p. 180–194 plant cell, cell anatomy, spermatozoon, ovum, virus, science history,
evolution, cratering of four inner planets as key to solar-system history 1977 Jan. p. 84-99 [351]	cytology, muscle cen, connective tissue cell, introduction to single-
1311 Jan. p. 04~79 [331]	topic issue on the living cell 1961 Sept. p. 50-61 [90]

bioluminescence, membrane potential, calcium pump, ion potential,	plant movement, nastic movement, turgor movement, geotropism,
electricity in plants 1962 Oct. p. 107–117 [136]	phototropism, touch orientation 1955 Feb p 100-106
eancer, multipotential cells, tumor, teratoma, gene expression,	plant nutrition, plant roots, root pressure, soil minerals, transport mechanisms 1973 May p 48-58 [1271]
minipitions 1965 Nov p 75-83 [1024] pollen, scanning electron microscope, flower, morphology	plant pathorens, disease-resistant plants, plant breeding, agronomy, plant
1968 Apr p 80-90 [1105]	disease fungal infection, sugarcane, mechanism of disease resistance
cellulose, cell wall, monosacchandes, polysacchandes	in plants 1975 Jan p 80-88 [1515]
1975 Apr p 80-95 [1320]	plant physiology, alkaloids, morphine, strychnine, 'hemlock',
dant cell differentiation, tissue culture, meiosis, mitosis, clone, generation	physostigmine, caffeine, comme, quinine, cocaine, nomine, LSD, human toxins in plant physiology 1959 July p 113-121 [1887]
of whole preasure from tissue cell (carrot) 1963 Oct p 104-113	Line I meeting to one history san flow Stephen Hales's work
plant cell wall, place, tylan, mannan, cellulose, xylan, mannan in place of cellulose in marine plant tissue 1968 June p. 102–108 [1110]	(A)(I)(1) b >0 to.
cellulose in marine plant tissue 1968 June p 102-108 [1110] siant circulation, flowering, photoperiodicity, pigment, hormone,	plant protein, corn, lysine, plant breeding, agronomy, human nutnion,
photoperiodicity in regulation of plant physiology	malantestan high-icsing com 1711 Aug P V . Tr
1958 Apr p 108-117 (112)	legumes, mirogen fixation, agronomy, soybean products 1974 Feb p 14-21
plant communities, growth inhibitors, plant hormones, plant chemicals	-land hubrids agranamy Traticale 1974 Aug p 72-80
antagonistic to other plants 1747 Mill. P 40~21	
plant disease, antibiotics, rot, blight, smut, wilt disease, mold, milden 1955 June p. 82-91	tuneral second coll minerals (tallapper)
disease-resistant plants, plant breeding, agronomy, fungal infection,	machanisms
plant nathogens, suparcane, mechanism of disease resistance in	plant succession, Krakatoa, volcanic eruption, ecology 1949 Sept p 52-54
mlants [975 3311]) 00-00 [1515]	1952 June p 66-12
plant domestication, agricultural history, animal domestication,	
archaelogy food and appropliate 1970 Sept p 00-27	plant tissue grafts, tissue culture, plant normales, usual 1950 Mar p 48-51 plant cells, plant growth requirements 1950 Mar p 48-51
plant evolution, fungs, orchids, symbiosis, mycorrhiza, adaptation,	
adaptive ability of orchids alkaloids, butterfly, larvae, symbiosis, insect repellants, behavioral	relationship, mimicry, ecology, chemical defense against predation 1969 Feb p 22-29 [1133]
- 1 ministry butterill -Diant association	a tencion science
1967 June p 104-113 [1070]	plants, Hales, root pressure, sap circulation, snoot tension, 322 Oct p 78-82 history, Stephen Hales, founder of biophysics 1952 Oct p 78-82
plant galls, insect reproduction, parasitism, plant growth, parasite-	history, Stephen Hales, founder of biophysics phloem, xylem, radioautography, sap circulation, transport of nutnents 1959 Feb p 44-49 [53]
and used changes in highly	in plant ussue
plant genetics, chromosome doubling, colchicine, hybrid cells,	on plant tissue convection currents, thermoregulation, solar radiation, thermal radiation, transpiration, energy transfer, heat transfer in plant leaves 1965 Dec p 76-84 [1029]
Catactysine explained infection late-blight of potatoes	radiation, transpiration, energy transfer, near transfer at 1965 Dec p 76-84 [1029]
	anthracene, crystallography, photosynthesis, electron transfer, exciton,
agronomy, crop yields, plant breeding, rice, wheat, maize, food and 1976 Sept p 180-194	organic crystals, conjugated around 1967 Jan p 80-97
	and a selection of the prominences.
agriculture plant growth, fungi, mushrooms, mycelium, burgeoning explained plant growth, fungi, mushrooms, mycelium, burgeoning explained 1956 May p 97-106	plasma, heat, magnetohydrodynamics, shock tube, solat promisers very high temperatures
agronomy, auxins, oak, giberellin, function of plant growth hormone	very high temperatures light velocity, radiowave, phase velocity, free-electron density, 'things light velocity, radiowave, phase velocity, free-electron density, 'things 1960 July p 142-152
	that go faster than light'
climate, greenhouse, agronomy, photoperiodicity, day-night	and compression, shock waves, shock thoe, many
temperature, phytotion, children 1957 June v 82–94	mechanically and electromagnetically driven shock waves mechanically and electromagnetically driven shock waves 1963 Feb p 109-119
insect reproduction, plant galls, parasitism, parasite-induced changes in 1959 Nov. p 151-162	solar radiation, ionosphere, Earth magnetic field, geomagnetism, clouds
insect reproduction, plant gails, parasitism, parasiti	barium ciouds, magnetosphers, 1968 Nov p 60-22
phytochrome, photoperiodicity, germination, physical 1960 Dec. p. 56-63	IfOII IOCKEIS
flowering, photoreceptive energy industry agricultural technology,	see also blood plasma, gas plasma, plasma physics and plasma arcs, circuit breakers, electric power, high-voltage current 1971 Jan p 76-84
food production, fertilizers, chemical mudday, 55 June p 62-72 increasing world food supply the proposes giberellin	physica area, chouse of
increasing world tood supply auxins, cytokinins, dormin, plant hormones, giberellin 1968 July p 75-81 [1111]	plasma confinement, plasma physics, magnetic bottle, behavior of 1957 Oct p 87-94
to the engage magnetis.	magnetically confined plasmas fusion reactor, nuclear power, magnetic bottle, deutenum, tritum, 1958 Oct p 28-35
vision, photosynthesis, photoperiodicity, visual pigments, phytochrome, chlorophyll, retina cells, light and hving matter 1968 Sept p 174-186	magnetic pumping stellerator 1958 Oct p
phytochrome, chlorophyti, retina cens, nght 1968 Sept p 174-186 1959 Nov p 88	nuclear power, fusion reactor, imagnetic control 1966 Dec p 21-31
light-sensitive enzyme	
light-sensitive enzyme plant hormones, plant communities, growth inhibitors, plant chemicals plant hormones, plant communities, growth inhibitors, plant chemicals 1949 Mar p 48-51	I manuer
antagonistic to other plants	fusion reactor, laser implosion, nuclear power, nuclear power, 1974 June p 24-37
germination, flowering, photoperiodicity, photorophotoperiodicity, phot	thermonuclear reaction
tissue culture, plant tissue grafts dedifferentiation of plant cells, plant 1950 Mar p 48-51	plasma containment, fusion reactor, nuclear power, magnetohydrodynamics, pinch effect, thermonuclear reaction, magnetohydrodynamics, power 1957 Dec p 73-84 [236]
growth requirements	thermonuclear energy for domestic person torch, energy
flowering, photoperiodicity, horizontal 1952 May p 49–36 [113]	nuclear powel, iccycling, many 1071 Eab p 30-04 [579]
auxins, plant growth, cytokinins, dormin, giberellin 1968 July p 75-81 [1111]	transformation, magnetory and properties fusion reaction
hand model, illectionized	magnetic boille, allomatous
auxins, adaptation, trees, tree structure, ax-ticad motor, July p 92-102	miarros an one depreces F
1-mon of 11885	plasma jet, electric arc, heat, magnetohydrodynamics, 30,000 degs by 80-88
brassins characterized plant hybrids, wheat, hybrid wheat, agronomy, food production 1969 May p 21-29 plant hybrids, wheat, hybrid wheat, agronomy, food production 1974 Aug p 72-80	torch, applications torphison, jet velocity, cesium-ion beam, magnetohydrodynamics, ion propulsion, jet velocity, cesium-ion beam, magnetohydrodynamics, ion propulsion pr
grain, proteins, plant protein, agronomy, Triticale 1974 Aug p 72-80 grain, proteins, plant protein, agronomy, Triticale 1974 Aug p 72-80 grain, proteins, plant protein, agronomy, Wisconsin	electrical propulsions, space and bettle behavior of
grain, proteins, plant protein, agronomy, Triticale 1974 Aug p 72 to grain, proteins, plant migration, oceanography, New World archeology, animal migration, plant migration, oceanography, New World archeology, animal migration, plant migration, bridge, continental shelf, glaciation, Wisconsin	the circ plasma commenter the the the the state of the st
Bering land bridge, continental shell, guactitude, Bering land bridge, guactitude, Bering l	models for study of gas plasmas 1963 Nov p 40-33
-	

nuclear power, fusion reactor, plasma confinement, magnetic bottle,	hydrothermal extraction, mineral deposits, mineral resources, mineral
magnetic shear 1966 Dec. p. 21-31	prospecting, non-ferrous ore 1973 July p. 86–95 [909]
fusion reactor, laser-pulse fusion, nuclear power 1971 June p. 21-33	Andes, earthquake distribution, mountain formation, seismic waves, volcanic activity 1973 Aug. p. 60–69 [910]
plasmids, antibiotic resistance, bacteria, infectious disease, drug	volcanic activity 1973 Aug. p. 60-69 [910] Earth crust, deep-sea drilling, ocean evolution, Pacific plate,
resistance, gene mutation, Rh factor, bacterial conjugation 1973 Apr. p. 18-27 [1269]	sedimentary cores, voyager of the Glomar Challenger
gene manipulation, molecular cloning, recombinant DNA, Asilomar	1973 Nov. p. 102–112 [911]
conference, hazard evaluation 1975 July p. 24–33 [1324]	biosphere, continental drift, marine biology, ocean evolution, Pangaea
Plasmodium, Anopheles mosquito, tropical medicine, malaria,	1974 Apr. p. 80–89 [912]
epidemiology, W.H.O. malaria eradication 1962 May p. 86-96	continental drift, contracting-Earth theory, science history, Pangaea,
biological clock, malaria, parasitism, reproduction, gametocyte,	Wegener's hypothesis 1975 Feb. p. 88-97 Earth mantle, kimberlites, meteorite composition, seismic waves,
mosquitoes 1970 June p. 123–131 [1181] plastic humus, good tilth from Monsanto 1952 Jan. p. 34	
plastic humus, good tilth from Monsanto 1952 Jan. p. 34 plastic zone, Earth mantle, seismology, isostatic equilibrium, basalt,	plumes, Earth dynamics 1975 Mar. p. 50-63 [915] Earth evolution, solar system, erosion 1975 Sept. p. 82-90
Mohorovicic discontinuity, plastic zone at depth between 37 and 155	earthquake zones, island arcs, lithospheric subduction, mountain
miles 1962 July p. 52–59	formation, sea-floor spreading, subduction zones, volcanic zones
plastics, silicon, polymers, silicon, carbon, silicon in place of carbon	1975 Nov. p. 88–98 [919]
1948 Oct. p. 50–53	domes, hot spots, island arcs, ocean rifts, plumes, volcanoes 1976 Aug. p. 46-57 [920]
acetylene, chemical industry 1949 Jan. p. 16–21 fluorocarbons, fluorine, stable and promising compounds	convection cells, Earth mantle, convection currents, driving force of
1949 Nov. p. 44–47	continental drift, large-scale circulation 1976 Nov. p. 72–89 [921]
glass fiber, materials technology, synthetic fiber, composite materials,	continental drift, age of rocks 1977 Mar. p. 92-104
properties of 'two-phase' materials 1962 Jan. p. 124–134	mountain formation, continental drift, earthquake zones, Gobi Desert,
carbon, polyethylene, spherulites, solid state physics, crystallography	Himalaya formation, India-Eurasia collision, sea-floor spreading,
1964 Nov. p. 80–94	Tibetan plateau 1977 Apr. p. 30-41 Earth heat, Earth core, heat flow 1977 Aug. p. 60-76 [927]
materials technology, polymers, natural polymers, cross-linking, covalent bonds 1967 Sept. p. 148–156	sea-floor spreading, metals, mid-ocean ridge, hydrothermal extraction,
covalent bonds 1967 Sept. p. 148-156 input-output analysis, interchangeability of materials, cost assessment,	manganese nodules, origin of metal deposits on ocean floor
price trends, materials technology, metals, competition among	1978 Feb. p. 54-61 [929]
materials 1967 Sept. p. 254-266	crustal plate junction in Pacific 1970 Sept. p. 86
heat resistance, polymers, materials technology, aromatic	see also: continental drift
hydrocarbons, high-temperature-resistant plastics 1969 July p. 96–105	platelets, blood plasma, blood fractionation, erythrocyte, leukocyte, centrifuge, blood transfusion, blood banks 1954 Feb. p. 54–62
water-soluble Polyox 1958 Jan. p. 46	hemagglutination, hemostasis, blood clotting, role of platelets in
Delrin polymerization process 1958 May p. 58	clotting mechanism 1961 Feb. p. 58-64
superconductors, plastic superconductor synthesis proposed	Platonism, formalism, infinitesimals, mathematical logic, real-number
1964 Aug. p. 39	line 1971 Aug. p. 92-99 Playa Grande culture, Peru, New World archeology, history of a dig
biodegradable 1968 June p. 46 plastids, cytoplasmic inheritance, reciprocal crossing, maternal	1955 Mar. p. 98–104
inheritance, sex linked traits, non-Mendelian inheritance, male	pleasure, behavior, value judgments 1968 Dec. p. 84–90 [518]
sterility, paramecium, chloroplast, cytogene, review of evidence for	pleasure centers, brain, learning, neurophysiology, neuropsychology,
an extra-chromosomal genetics 1950 Nov. p. 30–39 [39]	hypothalamus, electrode stimulation of pleasure centers in rat brain
chloroplast, mitochondria, symbiosis, cell organelle, DNA, prokaryote	1956 Oct. p. 105-116 [30] pleiades, interstellar gas, stellar evolution, stellar cluster, mass and
origin, protein synthesis, cell evolution, extra-nuclear genetic activity in cell 1970 Nov. p. 22-29 [1203]	motion in and of clusters, clues to formation
mitochondria, extranuclear heredity 1964 Nov. p. 58	1962 Nov. p. 58-66 [285]
plate boundaries, earthquakes, plate tectonics, San Andreas fault	Pleistocene fossils, continental shelf submersion 1967 Jan. p. 58
1971 Nov. p. 52–68 [896]	Plesianthropus, man-apes, human evolution, Australopithecus
plate-boundary stresses, earthquake prediction, seismology, earthquake precursors 1975 May p. 14-23 [917]	Paranthropus, primates, hominids branched from other primates 30 million years ago 1948 May p. 16-19
plate-glass, manufacture by floating 1971 Apr. p. 52	man-apes, human evolution, Homo, Australopithecus, Paranthropus
plate tectonics, continental drift, remanent magnetism, ocean floor, island	1949 Nov. p. 20-24 [832]
arcs, Wegener hypothesis re-stated with new evidence, age of rocks	plethysmography, hypertension, venous system, vasoconstriction, veins,
1963 Apr. p. 86-100 [868] continental drift, glaciation, Gondwanaland, Laurasia,	actively dilating and constricting blood reservoir 1968 Jan. p. 86-96 [1093]
paleomagnetism, Glossopteris, sea-floor spreading, supercontinents,	pleuropneumonia-like organism, see: PPLO
continental drift confirmed 1968 Apr. p. 52-64 [874]	'Plowshare', atomic explosions, underground nuclear explosions, Rainier
continental drift, sea-floor spreading, magnetic reversals, crustal	explosion, search for constructive use for nuclear explosions
movement, earthquakes 1968 Dec. p. 60–70 [875] continental drift, sea-floor spreading, ocean ridges, convection	plumes, Earth mantle, kimberlites, meteorite composition, plate tectonics,
currents, Earth mantle, tensile-stress hypothesis	seismic waves, Earth dynamics 1975 Mar. p. 50–63 [915]
1969 Nov. p. 102–119	domes, hot spots, island arcs, plate tectonics, ocean rifts, volcanoes
continental drift, scaling, subduction, sea-floor spreading, Earth crust,	1976 Aug n 46_57 19201
Triassic period, Pangaea, computer modeling, supercontinents, breakup of Pangaea traced 1970 Oct. p. 30-41 [892]	diamond, Earth mantle, kimberlite pipes, volcanic eruption, genesis of kimberlite pipes
earthquakes, plate boundaries, San Andreas fault	kimberlite pipes 1978 Apr. p. 120–132 [931] pluralistic economy, employment, public sector, private-enterprise sector,
1971 Nov. p. 52 68 [896]	productivity, U.S. economy, not-for-profit sector
continental evolution, geosyncline, mountain formation, sedimentary rock, Apallachian foldbelt 1972 Mar. p. 30.38 [899]	1976 Dec = 25 20
continental drift, earthquake zones, magnetization natterns, subduction	Pluto, Neptune, orbital motion, solar system, Pluto as escaped Neptunian
zones, mountain formation, sea-floor spreading, overview of the new	satellite 1959 Apr. p. 86–100 [295] Neptune, outer planets, Saturn, solar system, Uranus
20102V 1077 Nov 66 68 10001	1975 Sept = 120 140
species dispersion, continental drift, fossil record, evolution	cx-satelitie of Neptune!
mountain formation, continental drift, Gondwanaland, Himalaya	
formation, indian-Ocean formation, magnetization patterns, sea-	plutonium, ultra-microchemistry, embryonic development, cytology, chemistry, isolation of plutonium established a new research
floor spreading 1973 May p. 62–72 [908]	technology 1954 Feb = 76 81
	1954 Feb. p. 76–81

breeder reactor, fission reactor, energy demand, uranium fission, 'third	18 million Salk shots	1955 Apr p 47
generation' breeder reactors 1967 May p 25-33	Salk trials successful	1955 June p 46
discovery recounted by Seaborg 1959 Feb p 66	Salk campaign a success	1956 Jan p 54
plutonium fuel cycle, nuclear power, atomic-weapon proliferation, arms	live (Sabin) vaccine	1956 May p 60 1956 July p 48
control, breeder reactor, U.S. energy policy and proliferation of atomic weapons. 1978 Apr. p. 45-57 [3004]	Salk vaccine in U S S R Salk vs Sabin vaccines	1957 Sept p 112
plutonium separation, nuclear fuel cycle, fission products, fission reactor,	live virus vaccine in the field	1959 Aug. p 64
nuclear power 1952 July p 62-67	live-virus vaccine approved for general use	1960 Oct p 82
Pluto's mass, one tenth of predicted 1950 July p 28	SV-40 virus in salk vaccine	1961 Nov p 86
pneumatic buildings, radar domes, building construction, construction	Sabin type III vaccine approved for general use	1962 June p 78
technology 1956 June p 131–138	Sabin type III vaccine infections	1962 Nov p 68 1964 Nov p 58
pneumatic propulsion, mass transit, underground transport, railway,	Sabin vaccine for children polio virus, virus culture, human embryo tissue	1955 Sept p 76
gravity propulsion, transport by 'pedulum' train 1965 Aug p 30-40 pneumatic seriomechanisms, control systems, automatic control,	poliony clitis, gammaglobulin, epidemiology, immun	ity, blood
servomechanisms, actuators, frequency response, hydraulic	fractionation, vaccine	1923 July 6 47-47
servomechanisms, control systems 1952 Sept p 56-64	slow virus infection, multiple sclerosis, myelin she	ith, demyelmating
pneumatics, Boyle's law, chemical experimentation, science history,	factor, latent viruses	1970 July p 40-46 1949 Oct p 28
philosophy 1967 Aug p 96–102	exaggerated figures	1950 Nov p 25
pneumococcus, bacteria, gene transformation, drug resistance,	stress susceptibility gamma globulin field trials	1952 Dec p 28
streptomycin, recombinant DNA, biochemistry of Avery, McLeod and McCarty experiment 1956 Nov p 48-53 [18]	crystallized	1955 Dec p 48
and McCarty experiment 1956 Nov p 48-53 [18] gene transformation, cell wall, recombinant DNA, transformation	animal carriers of polio virus	1956 Apr p 64
induced by factor synthesized by cell 1969 Jan p 38-44	Coxsacki-polio link	1959 Jan p 66 1959 Apr p 64
Pockel's effect, communication technology, laser, pulse-code modulation,	US polio by socioeconomic status	1977 Sept p 96
electron optics, Kerr effect, polarization, modulators, modulation of	decline in vaccination-rate poliomy elitis virus, central nervous system, infective s	specificty, infective
laser light 1968 June p 17–23	specificity, epidemiology, nature of the disease a	nd public health
pocket calculator, calculating machine, computer, integrated circuits,	before production of the Vaccines	1720
nod corn, corn, genetics, teosinte, tripsacum, popcorn, hybrid cells, New	1 hacterionhage Dacie	nopnage, anugen enficity, viruses in
World archeology, plant genetic experiment and archeological linus	antibody reaction, immunity, infection, nost-spe-	1951 May p 43-51
point to pool corn as wild ancester of maise 1950 July p 20-24 [20]	infection and in the laboratory tissue culture, rhesus embryo, serial passage, polio	vaccine, tissue
podzole, soil structure, chernozems, latozols, tundra, alluviai soiis,	culture of virus opens way to vaccine	1952 Nov p 26-29
agronomy, ecology of soil, soil erosion, the soils of the world and their management 1950 July p 30-39	and and anislant antihody nersistence	1955 Apr p 42-44
poison ivy, allergic reaction, autosensitivity, dermatitis, rheumatoid	anterox mises Coxsackie virus, lissue cuiture, ecito	ruses
arthus multiple scierosis, delayed hypersensitivity	epidemiology, benign and infectious intestinal vi	
1900 Apr p 125-137	adenoviruses, virology, X-ray diffraction, polyoma	virus, herpes virus,
poisons, ionizing radiation, radioautography, 'bone-seekers', chelate,	influenza virus, vaccinia virus, todacco mana	rus, bacteriophage, 1963 Jan p 48-56
scintillation counter animal toxins, nerve conduction block, tetrodotoxin, saxitoxin, puffer animal toxins, and the puffer animal toxins animal toxins and the puffer animal toxins and the puffer animal toxins animal toxins animal toxins and the puffer animal toxins	structure of viruses	multiplication virus
fish, California newt 1967 Aug p 60-71 [1080]	structure of viruses DNA, genetic code, protein synthesis, RNA, virus	1975 May p 24-31
and the like	structure	1954 Jan p 42
polar bears, animal migration, telemetry, satellite, Arche, satellite, 11031	polishing, Beilby layer, burmshing, abrasion hypothes	is, melting 1968 June p 91-99
	hypothesis	Pierre Simon de
polar cap, Mars, desert, atmosphere, climate, 'canals', picture from Earth- 1953 May p 65-73	hypothesis politics, cosmology, Laplace, physics, life and work of	1954 June p 76-81
bound study Magner 7 telemetry, orbital motion, television	Laplace politics of aid, economic development, military expend	atores cold war.
	rich nations, poor nations	u mombology
	'rich' nations, 'poor' nations pollen, scanning electron microscope, flower, plant ce	Apr p 80-90 [1105]
polar ecology, algae, lichens, symbiosis, fungi, desert ecology, symbiotic 1959 Oct p 144-156 [111]		
nature of lichens	honeybee housekeeping, honeybee, hive environmen	
	pollen analysis, radiocarbon dating, paleobotany, cart	on 14, 1952 Feb p 24-28
polar front, jet stream, upper atmosphere, weather, atmospheric 1952 Oct p 26-31	archeological dating	records of the ice
circulation, index cycle 1956 Aug p 50	pollen chronology, glaciation, micropaleoniology, 1949	May p 48-51 [834]
polar ice cap, glacial cycle theory	age	efficity 1951 June p 52-56
Polaris, arms race, missile submarities, 322 June p 15–27 [344] missile		c ocean floor.
polarization, astronomy, supernovae, Crab Nebula, photometric 1962 Apr p 54-63	pollution, ocean, mineral resources, sea water, wetland	ot p 166-176 [885]
observations of nova outputs	physical resources of the ocean	ydrocarbons,
communication technology, laser, pulse-code modulation, or laser optics, Kerr effect, Pockel's effect, modulators, modulation of laser 1968 June p 17-23	DOT dieldrin, avian reproduction, moodiff	od chain pr p 72-78 [1174]
optics, Kerr effect, Pocket's effect, modulators 1968 June p 17–23	ecological effect of pesticides	ation biosphere,
light polarized light, animal navigation, Nichol prism, dichroic material 1955 July p 88-94	human population, food production, tertifizers, hing	acity to produce
horseshoe crab	food	p 160-170 [1196] 1966 May p 52
insect behavior, ants, bee, insect eye, animal havigation 106-115 [1342]	trash no place to put it	lout
police laboratory, crime detection, forensic chemistry 1953 Feb p 58-66 police laboratory, crime detection, forensic chemistry 1953 Feb p 58-66 1953 June p 50	see also air pollution, neat pollution and the inter-	nal disputes,
tio commo cionilli, available 1954 Apr D 44	pollution control, international cooperation, jurisdiction oceanography, resource management, international 1969 Sep	d competition and
polio prevention, globaliti discova culture, rhesus embryo, seriai	cooperation	resources
polio vaccine, poliomyelius virus, tissue culture vaccine passage, tissue culture of virus opens way to vaccine 1952 Nov p 26-29	coal gasification, gas turbine, on gasification, charge	1972 Oct p 26-35
1953 Mar p 32	t a mare disposal in occa	ns
billed virus nears test 1953 May p 58		974 Aug p 16-25 1948 Sept p 29
first killed-virus trials 1953 Dec p 32	Federal clean-water act	AN IN MARY I
field test for Salk 1954 June p 48 Salk trials proceed		
Dalk mais brosse		, 4,

cost of clean air and water 1971 Oct p 42	DNA, RNA, genetic code, chromosome, protein synthesis, molecular
ollution effects, city trees, tree cloning, ailanthus, ginkgo, London plane,	genetics as of mid-1957 1957 Sept p 188–200 [54]
Norway maple 1976 Nov p 110–118	collagen, elastin, keratin, myosin, fibrin, cell, polymers in living cells
oly I:C, interferon induction, synthetic RNA, virus disease	1957 Sept p 204–216 [35]
1971 July p 26–31 [1226]	molecular science, addition polymers, condensation polymers,
olyacrylates, soil conditioners, humus, polyvinylites, cellulose, tilth	introduction to single-topic issue on 'giant molecules'
1953 Aug p 36–38	1957 Nov. p 80–89
olyalphabetic systems, cryptology, code, rotor machine, cipher, history	molecular weight determination, light scattering, viscometer,
and technology of making and breaking ciphers and codes	photometer, how giant molecules are measured 1957 Nov p 90–97
1966 July p 38–46	catalysis, materials technology, industrial chemistry, stereoisomers,
polycyclic aromatic compunds, aromatic hydrocarbons, molecular	synthesizing giant molecules 1957 Nov p 98–104
structure, pyrogenesis 1976 Mar p 34-45	'stereoregular' polymers, isotactic polymers, polyethylene, catalytic
oolyethylene, polymers, catalytic polymerization, thermoplastic polymers,	polymerization, polypropylene, precisely constructed polymers
properties, production, economics of first 1,000 million-pound	1961 Aug p 33–41 [315]
plastic 1957 Sept p 139–152	glass, metals, materials technology, ceramics, chemical band, composite
polymers, 'stereoregular' polymers, isotactic polymers, catalytic	materials, atom, elements, introduction to single-topic issue on
polymerization, polypropylene, precisely constructed polymers	materials 1967 Sept p 68–79
1961 Aug p 33–41 [315]	materials technology, natural polymers, plastics, cross-linking, covalent
carbon, spherulites, plastics, solid state physics, crystallography	bonds 1967 Sept p 148–156
1964 Nov p 80–94	heat resistance, materials technology, plastics, aromatic hydrocarbons,
Ziegler process 1955 Aug. p 48	high-temperature-resistant plastics 1969 July p 96–105
polygons, physics, crystal structure, polyhedra, axis of rotation,	'iig' for polymerization 1958 July p 50
philosophy of science, topological limits of physics	see also amorphous polymers
1953 Jan p 50–56	polymorphism, genetic variation, gene mutation, natural selection,
topology, shape, polyhedra, tessellation, space-filling	mollusk shells, biological diversity, discontinuous variation
1954 Jan p 58-64	1975 Aug p 50-60 [1326]
polygraph, anxiety, lying, psychosomatic illness, guilt, breathing, pulse	Polynesian culture, Easter Island, stone heads 1949 Feb p 50-55
rate, skin temperature, 'he detector' mis-named	cultural evolution, language, tools, settlement of South Sea Islands,
1967 Jan p 25–31 [503]	origin of Polynesians 1956 Aug. p 58–72
jettisoned at Oak Ridge 1953 June p 46	polynomial-time problems, algorithms, computer science, Koenigsberg
invalid results 1963 July p 66	bridges, undecidable questions, exponential-time problems,
'he detector' discredited 1965 May p 50	efficiency of algorithms 1978 Jan p 96–109 [395]
polyhedra, physics, crystal structure, polygons, axis of rotation,	polyoma virus, carcinogenesis, recombinant DNA, virus disease,
philosophy of science, topological limits of physics	'temperate' infection, genetic transduction, viral induced malignancy
1953 Jan p 50–56	1960 Nov. p 63-71 [77]
topology, shape, polygons, tessellation, space filling	adenoviruses, virology, X-ray diffraction, poliomyelitis virus, herpes
1954 Jan p 58–64	virus, influenza virus, vaccinia virus, tobacco mosaic virus,
virus structure, virus shell, bacteriophage, assembly of T4 subunits	bacteriophage, structure of viruses 1963 Jan p 48-56
from core out 1966 Dec p 32–39 [1058]	gene culture, cell transformation, SV40 virus, viral DNA, viral
polyhedral-hole model, liquid structure, five-fold symmetry, geometrical	carcinogenesis 1967 Apr p 28–37 [1069]
arrangement of molecules in a liquid 1960 Aug p 124-134 [267]	polypeptide chain, proteins, amino acids, hydrogen bonds, X-ray
polymer microstructure, amorphous polymers, random-coil model,	crystallography, alpha helix 1954 July p 51-59 [31]
semicrystalline polymers, synthetic polymers, thermoplastic	polypeptide synthesis, collagen, proteins, beta chain, alpha helix,
polymers 1975 Dec p 96–106	polymers, amino acids, synthesis and architecture of proteins
polymer structure, morganic polymers, materials technology, polymeric	1957 Sept p 173–184 [7]
sulfur, silicon polymers 1974 Mar p 66-74	by laboratory DNA 1965 June p 56
polymeric sulfur, morganic polymers, materials technology, polymer	polypropylene, polymers, 'stereoregular' polymers, isotactic polymers,
structure, silicon polymers 1974 Mar p 66–74	polyethylene, catalytic polymerization, precisely constructed
polymerization, ionizing radiation, free radicals, organic chemistry,	polymers 1961 Aug p 33-41 [315]
ionizing radiation in industrial chemistry 1959 Sept p 180–196	polyribosomes, DNA, protein synthesis, RNA, ribosome
catalysis, lithium, stereoisomers, promotion of polymerization by lithium 1963 Jan p 88-102	1963 Dec p 44-53
hthium 1963 Jan p 88–102 catalysis, corona discharge, free radicals, ozone, corona chemistry,	polysaccharides, cellulose, rayon, forest products, crystal structure, lignin,
water purification, hydrocarbon cracking 1965 June p 90–98	polymers, paper, overview of natural polymer 1957 Sept p 156-168
boundary-phase hypothesis, superdense water, water II, polywater,	bacterial cell, cell wall, bacterial metabolism, penicillin, glycopeptides, membrane 1969 May p. 92-98
thermal conductivity, surface tension, evidence for water II argued	membrane 1969 May p 92–98 cellulose, cell wall, monosacchandes, plant cell
1970 Nov p 52–71	1975 Apr p 80–95 [1320]
polymers, silicon, silicon, carbon, plastics, silicon in place of carbon	polyvinylites, soil conditioners, humus, polyacrylates, cellulose, tilth
1948 Oct p 50–53	1953 Aug p 36–38
molecular science, addition polymers, condensation polymers,	polywater, boundary-phase hypothesis, superdense water, water II,
introduction to single-topic issue on 'giant molecules'	polymerization, thermal conductivity, surface tension, evidence for
1957 Sept p 80-89	water II argued 1970 Nov p 52-71
molecular weight determination, light scattering, viscometer,	venfication reported from US laboratories 1969 Sept p 90
photometer, how giant molecules are measured 1957 Sept p 90-97	impurities, cloud hypothesis 1973 Sept. p. 66
catalysis, materials technology, industrial chemistry, stereoisomers,	Pompeii, Roman civilization, Vesuvius eruption, two-thirds of the city's
synthesizing giant molecules 1957 Sept p 98–104	165,000 acres 1958 Apr. p. 68-78
elastomers, X-ray diffraction, molecular structure, mechanical	pond culture, fisheries, aquaculture, proteins, food, tilapia
properties of giant molecules 1957 Sept p 120–134	1963 May n 142-152
polyethylene, catalytic polymerization, thermoplastic polymers, properties, production, economics of first 1,000 million-pound	pond life, limnology, dissolved oxygen, plankton, thermocline
plastic 1957 Sept p 139–152	hypolimnion, oxidation-reduction balance in depths of a pond
cellulose, rayon, forest products, crystal structure, lignin, paper,	1951 Oct = 60 77
polysacchandes overview of natural polymer 1957 Sept p. 156-168	pongid brains, Airican hominids, brain evolution, fossil hominid brains
collagen, proteins, beta chain, alpha helix, polypentide synthesis	hominid human brain, endocranial casts
amino acids synthesis and architecture of proteins	pongids, Australoputhecus, Guantonuthecus, human
1957 Sept p 173-184 [7]	pongids, Australopithecus, Gigantopithecus, human evolution, hominid 1970 Jan p 76–85

breeder reactor, fission reactor, energy demand, uranium fi		18 million Salk shots	1955 Apr p 47
	May p 25-33	Salk trials successful	1955 June p 46
	59 Fcb p 66	Salk campaign a success	1956 Jan p 54
plutonium fuel cycle, nuclear power, atomic-weapon prolifera		live (Sabin) vaccine	1956 May p 60
control, breeder reactor, US energy policy and prolifera	ition of	Salk vaccine in USSR	1956 July p 48
atomic weapons 1978 Apr p	. ,	Salk vs Sabin vaccines	1957 Sept p 112
plutonium separation, nuclear fuel cycle, fission products, fiss	ion reactor,	live virus vaccine in the field	1959 Aug. p 64
nuclear power 1952 J	Tuly p 62–67	live-virus vaccine approved for general use	1960 Oct. p 82
Pluto's mass, one tenth of predicted 193	50 July p 28	SV-40 virus in salk vaccine	1961 Nov p 86
pneumatic buildings, radar domes, building construction, con-	struction	Sabin type III vaccine approved for general use	1962 June p 78
technology 1956 Jun	ep 131-138	Sabin type III vaccine infections	1962 Nov p 68
pneumatic propulsion, mass transit, underground transport, ra		Sabin vaccine for children	1964 Nov p 58
gravity propulsion, transport by 'pedulum' train 1965 A	ug p 30-40	polio virus, virus culture, human embryo tissue	1955 Sept p 76
pneumatic servomechanisms, control systems, automatic cont		poliomy clitis, gammaglobulin, epidemiology, immunity	, pioog
servomechanisms, actuators, frequency response, hydrau	ilic	fractionation vaccine	1933 July b 23-27
servomechanisms, control systems 1952 Se	ept p 56-64	slow virus infection, multiple sclerosis, myelin sheath	1, demyennaung 1970 July p 40-46
pneumatics, Boyle's law, chemical experimentation, science hi	istory,	factor, latent viruses	1949 Oct p 28
philosophy 1967 Au	ıg p 96–102	exaggerated figures	1950 Nov p 25
pneumococcus, bacteria, gene transformation, drug resistance	: ,	stress susceptibility	1952 Dec p 28
streptomycin, recombinant DNA, biochemistry of Avery	, McLeod	gamma globulin field trials	1955 Dec p 48
and McCarty experiment 1956 Nov 1	p 48–53 [18]	crystallized	1956 Apr p 64
gene transformation, cell wall, recombinant DNA, transfor	mation	animal carriers of polio virus	1959 Jan p 66
induced by factor synthesized by cell 1969 J	lan p 38–44	Coxsacki-polio link	1959 Apr p 64
Pockel's effect, communication technology, laser, pulse-code	modulation,	US polio by socioeconomic status	1977 Sept p 96
electron optics, Kerr effect, polarization, modulators, mo	odulation of	decline in vaccination-rate	enficts infective
laser light 1968 Ju	une p 17-23	poliony elitis virus, central nervous system, infective spe	mublic health
pocket calculator, calculating machine, computer, integrated	circuits.	specificity, epidemiology, nature of the disease and	950 Aug p 22-26
memory 1976 M	1ar p 88-98		/JU 1.40 I
pod corn, corn, genetics, teosinte, tripsacum, popcorn, hybrid	cells, New	virus disease, influenza virus, bacteriophage, bacterio	icity viruses in
World archeology, plant genetic experiment and archeology	ogical finds	antibody reaction, immunity, infection, nost-speed	951 May p 43-51
point to pool corn as wild ancester of maise 1950 July I	p 20–24 [26]	infection and in the laboratory	cone tissue
podzols, soil structure, chernozems, latozols, tundra, alluvial s	soils,	tissue culture, rhesus embryo, serial passage, poho vac	952 Nov p 26-29
agronomy, ecology of soil, soil erosion, the soils of the wo	orld and		955 Apr p 42-44
their management 1950 J	uly p 30-39	vaccine, epidemiology, antibody persistence	uses,
poison ivy, allergic reaction, autosensitivity, dermatitis, rheum	natoid	enteroviruses, Covsachie virus, tissue culture, echo vir	ses
arthritis multiple sclerosis, delayed hypersensitivity		epidemiology, benign and infectious intestinal virus	
1960 Apr	p 129–137	s as a structure molyoma VII	us, herpes virus
poisons, ionizing radiation, radioautography, 'bone-seekers',	chelate,	adenoviruses, virology, X-ray diffraction, polyonal virus influenza virus, vaccinia virus, tobacco mosaic virus	s, bacteriophage,
scintillation counter 1733 A	ug p J—J	influenza virus, vaccinia virus, tobacco	963 Jan p 48-56
animal toxins nerve conduction block, tetrodotoxin, saxito	xin, puffer	structure of viruses DNA, genetic code, protein synthesis, RNA, virus mu 19	Itiplication virus
fish, California newt 1967 Aug p	60-71 [1080]	DIVA, generic code, protein systems	75 May p 24-31
see also perve poisons venom and the like		structure electronmerograph	1954 Jan p 42
mata-bases animal migration telemetry, satellite, Arctic, said	ellite	electronmicrograph polishing, Beilby layer, burnishing, abrasion hypothesis, 19	melting
tanalong of migratory animals 1908 Feb D 100	0-110 [1102]	hypothesis	68 June p 91–99
	from Earth-	hypothesis politics, cosmology, Laplace, physics, life and work of Pi	54 June p 76–81
hound study	14) P	Laplace	cold wat
Mariner 6, Mars, Mariner 7, telemetry, orbital motion, telev	VISION	politics of aid, economic development, military expendite	72 Apr p 15-21
	fay p 26-41	rich nations, poor nations	bology
1970 10	ay p 20 4x	'rich' nations, 'poor' nations pollen, scanning electron microscope, flower, plant cell, r	p 80-90 [1105]
polar ecology, algae, lichens, symbiosis, fungi, desert ecology,	44_156 [111]		-
		honeybee housekeeping, honeybee, hive environment	p 92-98 [1247]
nature of lichens caribou, cold adaptation, rodent, moose, animal adaptation	an p 60-68		
		pollen analysis, radiocarbon dating paleobotany, carbon	52 Feb p 24-28
polar front, jet stream, upper atmosphere, weather, atmospher	oct p 26-31	archeological dame	acords of the ice
circulation, index cycle	5 Aug p 50	pollen chronology, graciation, meropater 1949 Ma	y p 48–51 [834]
polar ice cap, glacial cycle theory	t, Poseidon	32C	nd 137
Polaris, arms race, missile submarines, SLBW, WIRCY, 1972 June p	15–27 [344]	politinators, fertilization 195	51 June p 52–56
missile Carb Nabula photometr	nc -1 C2	pollution, ocean, mineral resources, sea water, wetlands, o	cean 11001,
observations of nova outbursts		physical resources of the ocean 1969 Sept 1	p 166–176 [885]
observations of nova outbursts communication technology, laser, pulse-code modulation, e communication technology, laser, puddletors, modulation, e	lectron	- 1 - occholl thinning chollingicum	chain
communication technology, laser, pulse-code incumation, optics, Kerr effect, Pockel's effect, modulators, modulators 1968 Ju	n of lase:	DDT dieldrin avian reproduction, histories	p 72-78 [1174]
opiics, Keil cheet, 2 ooke 1968 Ju	ne p 17-23	ecological effect of pesticides	n, biosphere,
light polarized light, animal navigation, Nichol prism, dichroic mate	ily p 88–94	human population, food production, let this tris, in agricultural revolution, soil erosion, biosphere capacitagnicultural revolution, soil erosion, biosphere capacitagnicultural revolution, soil erosion, biosphere capaci	ty to produce
horseshoe crab	ny p oo	agricultural revolution, son erosion, orospino p	160-170 [1196]
ansect behavior, ants, bee, insect eye, animal and taken 106	⊢115 [1342]	1000	1966 May P 32
police laboratory, crime detection, forensic chemistry 1953 Fe		trash no place to put it see also air pollution heat pollution and the like, fallou see also air pollution heat pollution and the like, fallou	t
police laboratory, crime detection, forensic chemistry	June p 50	see also air pollution heat pollution and the fact, famous pollution control, international cooperation, jurisdictional pollution control, international cooperation, international co	disputes
nolio gamma giodulli, avaliable 1914	ADT P ***	pollution control, international cooperation, jurisdictional co- oceanography, resource management, international co- 1969 Sept p	218–234 [888]
polio prevention, globulin and tissue culture, thesus embryo	, senal	cooperation 1969 Sept p	urces
Take waccine Dollomychus virus, the waccine	- 26.20	coal gasification gas turbine, on gasification, 511-18	Oct p 26-35
paccage fissue culture of 1-1	3V U ZU Z	t waste disposal in oceans	
1953	Mar p 52 May p 58	ocean pollution water quality, waste dispersion 1974	Aug p 16-25
e 1 thed was trials 1953	Dec p 32	Federal clean water act	148 Sept p 29
field test for Salk 1954	June p 48	Federal cicuit	
Salk trials pi			
G 1			

pons, brain circuitry, eye movement, neurophysiology, visual cortex,	blood proums
visual processing, visual cells in pons 1076 Nov. p. do	blood groups, genetic drift, mutation, consanguinity, gene pool,
popcom, corn, genetics, teosinte, tripsacum, nod corn, hybrid cells, Navi	20 Evolution, Farma Valley, Italy 1969 Aug. p 30-37
World archeology, plant genetic experiment and archeological find-	poor, matation, genetic load, electrophotesis,
point to pool corn as wild ancester of maise 1950 July p. 20-24 (2	neterozygosity 1970 Mar n 98-107 [1170]
poppy, analgesies, morphine, opium, heroin, codeine, Bentley's	of intelligence, race, whites, IQ, heredity, American Negro, heredity
compound drug where a such firm, codding, Bentley's	science policy, social psychology, twins, environment, racial
compound, drug action, search for strong, safe analgesic	UISCIMIDATION 1070 O-1 10 10 11101
1966 Nov. p. 131–136 [30	apes, fossil primates, human evolution, genetic variation
population, numain nutrition, food production. If N. technical agrees	1 Crotation, Beliefic variation
PAO, the food problem 1950 Am n 11 t	1972 Jan. p 94-103 [676]
anthropology, human evolution, steatopygia, climate, human	Benedo dint, face, setum protein analysis
migration, race, genetic variation, ancient migration and human	1974 Sept p 80-89
diversity 1960 Sept p. 112 127 (co.	air pollution, evolution, melanism, moths, gene mutation, predation,
	s) evolution observed again 1975 Jan p 90-99 [1314]
economic development, energy technology, industrialization, fuel	cat color, genetic variation, human migration, gene mutation, cline
consumption, energy resources, energy requirements and resources	maps, Hardy-Weinberg equilibrium 1977 Nov p 100-107 [1370]
for economic development 1963 Sept. p. 110–12	h north tion grouth beeth someon! Meleberry to some declaring
abortion, marriage rate, death rate, birth rate, vital statistics, menarche	
infant mortality, 1538-1812, parish registers, York, England	
	growth 1956 Mar p 64-76 [616]
1970 Jan p. 105–113	
economic development, 'green revolution', hunger, food and	Revolution, population explosion, human evolution, historical
agriculture, introduction to single-topic issue on food and agriculture	perspective on human population growth, how many ever lived
1976 Sept. p 30–39	1960 Sept p 194-204 [608]
abortion, birth control, public health, infant mortality, maternal	birth control, family planning, economic development, promotion of
mortality, international comparison of experience with legalization	birth control in Taiwan 1964 May p 29-37 [621]
of abortion 1977 Jan p. 21–27 [1348]	Industrial Day always and a supplier and a stroke
1277 July 2, 21 27 [1340]	Industrial Revolution, cities, urbanization, introduction to a single-
three billion people 1961 May p 74	topic issue on cities 1965 Sept p 40–53 [659]
population control, trout, stream ecology, mortality, moral: keep the little	human nutrition, poverty, hunger, developing countries, health, world
ones and let the big ones got 1953 May p 81-86	poverty 1968 Nov p 27-35
deer, food supply, hunting 1955 Nov p 101-108	land reform, agricultural technology, food supply, F.AO, human
mouse, animal migration, food supply 1955 Dec p. 92–100	nutrition, FAO Indicative World Plan 1970 Aug. p 54-69 [1180]
economic development, demographic transition, industrialization,	birth control, celibacy, disease, foundling institutions, infanticide,
urbanization, family planning, economic development and the	Malthusian doctrine, marriage age, population control in Europe
demographic transition 1963 Sept p 62-71 [645]	1750-1850 1972 Feb p 92-99 [674]
economic development, industrialization, agricultural production,	demographic transition, world population, zero population growth,
technology transfer, food production, economic planning, India,	harth anti- accordance and distingtion, 2010 population 5
tectulology transfer, food production, economic planning, India,	birth rate, gross reproduction rate, net reproduction rate,
economic development by democratic planning	extrapolation from world-statistics population model 1973 Mar p 15-23 [683]
1963 Sept p 189-206	19/3 Mar p 13-25 1005
animal behavior, territorial behavior, reproduction, homeostatic	distribution of wealth, economic development, middle classes,
	1 ton
population controls 1964 Aug. p 68-74 [192]	production statistics, natural resources, demographic transition
	production statistics, natural resources, demographic transition 1976 July p 28-35
abortion, birth control, contraception, family planning, public policy in	production statistics, natural resources, demographic transition 1976 July p 28-35 falling death rates 1958 Feb p 30
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17-23	production statistics, natural resources, demographic transition 1976 July p 28-35 falling death rates 1958 Feb p 30 population history, epidemiology, human behavior, bubonic plague,
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17-23 animal behavior, population cycles, lemmings	production statistics, natural resources, demographic transition 1976 July p 28-35 falling death rates 1958 Feb p 30 population history, epidemiology, human behavior, bubonic plague,
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17-23 animal behavior, population cycles, lemmings 1974 June p 38-46 [1296]	production statistics, natural resources, demographic transition 1976 July p 28-35 falling death rates population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17-23 animal behavior, population cycles, lemmings 1974 June p 38-46 [1296] food supply, human nutrition, world food bank, human population,	production statistics, natural resources, demographic transition 1976 July p 28-35 falling death rates 1958 Feb p 50 population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 1964 Feb p 114-121 [619]
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17-23 animal behavior, population cycles, lemmings 1974 June p 38-46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160-170	production statistics, natural resources, demographic transition 1976 July p 28-35 falling death rates 1958 Feb p 30 population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 1964 Feb p 114-121 [619] population of China, at 600 million 1955 Apr p 52
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17-23 animal behavior, population cycles, lemmings 1974 June p 38-46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160-170 Catholic essay contest 1956 Apr p 71	production statistics, natural resources, demographic transition 1976 July p 28-35 falling death rates 1958 Feb p 50 population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 1964 Feb p 114-121 [619] population of China, at 600 million 1955 Apr p 52 population redistribution, U S population, U S census, human migration
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17-23 animal behavior, population cycles, lemmings 1974 June p 38-46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160-170 Catholic essay contest 1956 Apr p 71 abortions in Japan 1960 Jan p 79	production statistics, natural resources, demographic transition 1976 July p 28-35 falling death rates 1958 Feb p 50 population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 1964 Feb p 114-121 [619] population of China, at 600 million 1955 Apr p 52 population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 1971 July p 17-25 186-156
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17-23 animal behavior, population cycles, lemmings 1974 June p 38-46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160-170 Catholic essay contest 1956 Apr p 71 abortions in Japan 1960 Jan p 79 population cycles, animal behavior, population control, lemmings	production statistics, natural resources, demographic transition 1976 July p 28-35 falling death rates population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 1964 Feb p 114-121 [619] population of China, at 600 million 1955 Apr p 52 population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 1971 July p 17-25 pores, cell membrane, erythrocyte 1960 Dec p 146-156
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17-23 animal behavior, population cycles, lemmings 1974 June p 38-46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160-170 Catholic essay contest 1956 Apr p 71	production statistics, natural resources, demographic transition 1976 July p 28-35 falling death rates 1958 Feb p 50 population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 1964 Feb p 114-121 [619] population of China, at 600 million 1955 Apr p 52 population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 1971 July p 17-25 pores, cell membrane, erythrocyte 1960 Dec p 146-156 1970 Nov p 42
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17-23 animal behavior, population cycles, lemmings 1974 June p 38-46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160-170 Catholic essay contest 1956 Apr p 71 abortions in Japan 1960 Jan p 79 population cycles, animal behavior, population control, lemmings 1974 June p 38-46 [1296]	production statistics, natural resources, demographic transition 1976 July p 28-35 falling death rates 1958 Feb p 50 population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 1964 Feb p 114-121 [619] population of China, at 600 million 1955 Apr p 52 population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 1971 July p 17-25 pores, cell membrane, erythrocyte 1960 Dec p 146-156 1970 Nov p 42
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17-23 animal behavior, population cycles, lemmings 1974 June p 38-46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160-170 Catholic essay contest 1956 Apr p 71 abortions in Japan 1960 Jan p 79 population cycles, animal behavior, population control, lemmings 1974 June p 38-46 [1296] population density, foodchain, food chain, human population, ecology,	production statistics, natural resources, demographic transition 1976 July p 28-35 falling death rates 1958 Feb p 50 population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 1964 Feb p 114-121 [619] population of China, at 600 million 1955 Apr p 52 population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 1971 July p 17-25 pores, cell membrane, erythrocyte 1960 Dec p 146-156 pornography, commission report 1970 Nov p 42 porphyria, dermatology, pink tooth disease, gene pool, tracking porphyria among Afrikaaners 1957 Mar p 133-142
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17-23 animal behavior, population cycles, lemmings 1974 June p 38-46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160-170 Catholic essay contest 1956 Apr p 71 abortions in Japan 1960 Jan p 79 population cycles, animal behavior, population control, lemmings 1974 June p 38-46 [1296] population density, foodchain, food chain, human population, ecology, 'the human crop' 1956 Apr p 105-112	production statistics, natural resources, demographic transition 1976 July p 28-35 falling death rates population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 1964 Feb p 114-121 [619] population of China, at 600 million 1955 Apr p 52 population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 1971 July p 17-25 pores, cell membrane, erythrocyte 1960 Dec p 146-156 pornography, commission report 1970 Nov p 42 porphyria, dermatology, pink tooth disease, gene pool, tracking porphyna among Afrikaaners 1957 Mar p 133-142
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17-23 animal behavior, population cycles, lemmings 1974 June p 38-46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160-170 Catholic essay contest 1956 Apr p 71 abortions in Japan 1960 Jan p 79 population cycles, animal behavior, population control, lemmings 1974 June p 38-46 [1296] population density, foodchain, food chain, human population, ecology, 'the human crop' 1956 Apr p 105-112 group behavior, crowding, rats, comparative psychology, social	production statistics, natural resources, demographic transition 1976 July p 28-35 falling death rates population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 1964 Feb p 114-121 [619] population of China, at 600 million 1955 Apr p 52 population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 1971 July p 17-25 pores, cell membrane, erythrocyte 1960 Dec p 146-156 pornography, commission report 1970 Nov p 42 porphyria, dermatology, pink tooth disease, gene pool, tracking porphyna among Afrikaaners 1957 Mar p 133-142 heredity, genetic disease, metabolic disease, George III 1969 July p 38-46 [1149]
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17–23 animal behavior, population cycles, lemmings 1974 June p 38–46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160–170 Catholic essay contest 1956 Apr p 71 abortions in Japan 1960 Jan p 79 population cycles, animal behavior, population control, lemmings 1974 June p 38–46 [1296] population density, foodchain, food chain, human population, ecology, the human crop' group behavior, crowding, rats, comparative psychology, social pathology of crowding 1962 Feb p 139–148 [506]	production statistics, natural resources, demographic transition 1976 July p 28-35 falling death rates 1958 Feb p 50 population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 1964 Feb p 114-121 [619] population of China, at 600 million 1955 Apr p 52 population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 1971 July p 17-25 pores, cell membrane, erythrocyte 1960 Dec p 146-156 pornography, commission report 1970 Nov p 42 porphyria, dermatology, pink tooth disease, gene pool, tracking porphyna among Afrikaaners 1957 Mar p 133-142 heredity, genetic disease, metabolic disease, George III 1969 July p 38-46 [1149]
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17–23 animal behavior, population cycles, lemmings 1974 June p 38–46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160–170 Catholic essay contest 1956 Apr p 71 abortions in Japan 1960 Jan p 79 population cycles, animal behavior, population control, lemmings 1974 June p 38–46 [1296] population density, foodchain, food chain, human population, ecology, 'the human crop' 1956 Apr p 105–112 group behavior, crowding, rats, comparative psychology, social pathology of crowding 1962 Feb p 139–148 [506] housing, land use, shantytowns, taxation, government regulation,	production statistics, natural resources, demographic transition 1976 July p 28-35 falling death rates 1958 Feb p 50 population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 1964 Feb p 114-121 [619] population of China, at 600 million 1955 Apr p 52 population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 1971 July p 17-25 pores, cell membrane, erythrocyte 1960 Dec p 146-156 pornography, commission report 1970 Nov p 42 porphyria, dermatology, pink tooth disease, gene pool, tracking porphyria among Afrikaaners 1957 Mar p 133-142 heredity, genetic disease, metabolic disease, George III 1969 July p 38-46 [1149] porphyrin ring, chelation, metal ions, sequestering, ring compounds.
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17-23 animal behavior, population cycles, lemmings 1974 June p 38-46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160-170 Catholic essay contest 1956 Apr p 71 abortions in Japan 1960 Jan p 79 population cycles, animal behavior, population control, lemmings 1974 June p 38-46 [1296] population density, foodchain, food chain, human population, ecology, 'the human crop' 1956 Apr p 105-112 group behavior, crowding, rats, comparative psychology, social pathology of crowding 1962 Feb p 139-148 [506] housing, land use, shantytowns, taxation, government regulation, urban planning, cities, control of land use 1965 Sept p 150-160	production statistics, natural resources, demographic transition 1976 July p 28-35 falling death rates 1958 Feb p 50 population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 1964 Feb p 114-121 [619] population of China, at 600 million 1955 Apr p 52 population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 1971 July p 17-25 pores, cell membrane, erythrocyte 1960 Dec p 146-156 pornography, commission report 1960 Dec p 146-156 porphyria, dermatology, pink tooth disease, gene pool, tracking porphyna among Afrikaaners 1957 Mar p 133-142 heredity, genetic disease, metabolic disease, George III porphyrin ring, chelation, metal ions, sequestering, ring compounds, organometallic compounds, metal-poisoning antidote, chemical 1953 June p 68-76
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17–23 animal behavior, population cycles, lemmings 1974 June p 38–46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160–170 Catholic essay contest 1956 Apr p 71 abortions in Japan 1960 Jan p 79 population cycles, animal behavior, population control, lemmings 1974 June p 38–46 [1296] population density, foodchain, food chain, human population, ecology, 'the human crop' 1956 Apr p 105–112 group behavior, crowding, rats, comparative psychology, social pathology of crowding 1962 Feb p 139–148 [506] housing, land use, shantytowns, taxation, government regulation, urban planning, cities, control of land use 1965 Sept p 150–160 population explosion, demographics, population growth, cultural	production statistics, natural resources, demographic transition 1976 July p 28-35 falling death rates population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 population of China, at 600 million population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 pores, cell membrane, erythrocyte pornography, commission report porphyria, dermatology, pink tooth disease, gene pool, tracking porphyna among Afrikaaners heredity, genetic disease, metabolic disease, George III 1969 July p 38-46 [1149] porphyrin ring, chelation, metal ions, sequestering, ring compounds, organometallic compounds, metal-poisoning antidote, chemical separation 1953 June p 68-76 1953 June p 68-76
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17-23 animal behavior, population cycles, lemmings 1974 June p 38-46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160-170 Catholic essay contest 1956 Apr p 71 abortions in Japan 1960 Jan p 79 population cycles, animal behavior, population control, lemmings 1974 June p 38-46 [1296] population density, foodchain, food chain, human population, ecology, 'the human crop' 1956 Apr p 105-112 group behavior, crowding, rats, comparative psychology, social pathology of crowding 1962 Feb p 139-148 [506] housing, land use, shantytowns, taxation, government regulation, urban planning, cities, control of land use 1965 Sept p 150-160 population explosion, demographics, population growth, cultural	production statistics, natural resources, demographic transition 1976 July p 28-35 falling death rates population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 1964 Feb p 114-121 [619] population of China, at 600 million 1955 Apr p 52 population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 1971 July p 17-25 pores, cell membrane, erythrocyte 1960 Dec p 146-156 pornography, commission report 1970 Nov p 42 porphyria, dermatology, pink tooth disease, gene pool, tracking porphyna among Afrikaaners 1957 Mar p 133-142 heredity, genetic disease, metabolic disease, George III 1969 July p 38-46 [1149] porphyrin ring, chelation, metal ions, sequestering, ring compounds, organometallic compounds, metal-poisoning antidote, chemical separation porpoise navigation, animal navigation, by sonar? 1953 May p 60
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17-23 animal behavior, population cycles, lemmings 1974 June p 38-46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160-170 Catholic essay contest 1956 Apr p 71 abortions in Japan 1960 Jan p 79 population cycles, animal behavior, population control, lemmings 1974 June p 38-46 [1296] population density, foodchain, food chain, human population, ecology, 'the human crop' 1956 Apr p 105-112 group behavior, crowding, rats, comparative psychology, social pathology of crowding 1962 Feb p 139-148 [506] housing, land use, shantytowns, taxation, government regulation, urban planning, cities, control of land use 1965 Sept p 150-160 population explosion, demographics, population growth, cultural evolution, agricultural revolution, Industrial Revolution, human evolution, instorical perspective on human population growth, how	falling death rates falling death rates population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 population of China, at 600 million population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 pores, cell membrane, erythrocyte pornography, commission report porphyria, dermatology, pink tooth disease, gene pool, tracking porphyna among Afrikaaners heredity, genetic disease, metabolic disease, George III porphyrin ring, chelation, metal ions, sequestering, ring compounds, organometallic compounds, metal-poisoning antidote, chemical separation porpoises, animal communication, fish communication, crustacea, porpoly apple 1956 Apr. p 93-102
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17-23 animal behavior, population cycles, lemmings 1974 June p 38-46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160-170 Catholic essay contest 1956 Apr p 71 abortions in Japan 1960 Jan p 79 population cycles, animal behavior, population control, lemmings 1974 June p 38-46 [1296] population density, foodchain, food chain, human population, ecology, 'the human crop' 1956 Apr p 105-112 group behavior, crowding, rats, comparative psychology, social pathology of crowding 1962 Feb p 139-148 [506] housing, land use, shantytowns, taxation, government regulation, urban planning, cities, control of land use 1965 Sept p 150-160 population explosion, demographics, population growth, cultural evolution, agricultural revolution, Industrial Revolution, human evolution, historical perspective on human population growth, how	falling death rates falling death rates population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 population of China, at 600 million population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 pores, cell membrane, erythrocyte pornography, commission report porphyria, dermatology, pink tooth disease, gene pool, tracking porphyna among Afrikaaners heredity, genetic disease, metabolic disease, George III porphyrin ring, chelation, metal ions, sequestering, ring compounds, organometallic compounds, metal-poisoning antidote, chemical separation porpoise navigation, animal navigation, by sonar? porpoises, animal communication, fish communication, crustacea, whale, marine biology, animal sounds in the sea 1956 Apr p 93-102
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17–23 animal behavior, population cycles, lemmings 1974 June p 38–46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160–170 Catholic essay contest 1956 Apr p 71 abortions in Japan 1960 Jan p 79 population cycles, animal behavior, population control, lemmings 1974 June p 38–46 [1296] population density, foodchain, food chain, human population, ecology, 'the human crop' 1956 Apr p 105–112 group behavior, crowding, rats, comparative psychology, social pathology of crowding 1962 Feb p 139–148 [506] housing, land use, shantytowns, taxation, government regulation, urban planning, cities, control of land use 1965 Sept p 150–160 population explosion, demographics, population growth, cultural evolution, agricultural revolution, Industrial Revolution, human evolution, historical perspective on human population growth, how many ever lived 1960 Sept p 194–204 [608] demography transition, economic development, human population,	falling death rates falling death rates population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 population of China, at 600 million population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 porting in the properties of plague, Europe 1348-50 population of China, at 600 million suburbanization, U S census of 1970 porting in the properties of plague, Europe 1965 Apr p 52 porting in the properties of plague, Europe 1364 Feb p 114-121 [619] porting in the properties of population, U S census, human migration 1975 More p 146-156 porting in the properties of population, U S census, human migration 1970 Nov p 42 porting in the properties of population, under properties of population, metal ions, sequestering, ring compounds, organometallic compounds, metal-poisoning antidote, chemical separation 1953 June p 68-76 porting in the properties of population, animal navigation, by sonar? 1953 May p 60 porting in the properties of properties of population population, animal navigation, properties of population population properties of properties
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17–23 animal behavior, population cycles, lemmings 1974 June p 38–46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160–170 Catholic essay contest 1956 Apr p 71 abortions in Japan 1960 Jan p 79 population cycles, animal behavior, population control, lemmings 1974 June p 38–46 [1296] population density, foodchain, food chain, human population, ecology, 'the human crop' 1956 Apr p 105–112 group behavior, crowding, rats, comparative psychology, social pathology of crowding 1962 Feb p 139–148 [506] housing, land use, shantytowns, taxation, government regulation, urban planning, cities, control of land use 1965 Sept p 150–160 population explosion, demographics, population growth, cultural evolution, agricultural revolution, Industrial Revolution, human evolution, historical perspective on human population growth, how many ever lived 1960 Sept p 194–204 [608] demographic transition, economic development, human population, zero population growth, introduction to single-topic issue on the	falling death rates 1976 July p 28-35 falling death rates 1958 Feb p 50 population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 1964 Feb p 114-121 [619] population of China, at 600 million 1955 Apr p 52 population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 1971 July p 17-25 pores, cell membrane, erythrocyte 1960 Dec p 146-156 pornography, commission report 1970 Nov p 42 porphyria, dermatology, pink tooth disease, gene pool, tracking porphyna among Afrikaaners 1957 Mar p 133-142 heredity, genetic disease, metabolic disease, George III 1969 July p 38-46 [1149] porphyrin ring, chelation, metal ions, sequestering, ring compounds, organometallic compounds, metal-poisoning antidote, chemical separation 1953 June p 68-76 porpoises, animal communication, fish communication, crustacea, whale, marine biology, animal sounds in the sea 1956 Apr p 93-102 how they ride the bow-wave 1959 June p 81 Portland cement, concrete, hydration, X-ray diffraction, cement,
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17–23 animal behavior, population cycles, lemmings 1974 June p 38–46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160–170 Catholic essay contest 1956 Apr p 71 abortions in Japan 1960 Jan p 79 population cycles, animal behavior, population control, lemmings 1974 June p 38–46 [1296] population density, foodchain, food chain, human population, ecology, 'the human crop' 1956 Apr p 105–112 group behavior, crowding, rats, comparative psychology, social pathology of crowding 1962 Feb p 139–148 [506] housing, land use, shantytowns, taxation, government regulation, urban planning, cities, control of land use 1965 Sept p 150–160 population explosion, demographics, population growth, cultural evolution, agricultural revolution, Industrial Revolution, human evolution, historical perspective on human population growth, flow many ever lived 1960 Sept p 194–204 [608] demographic transition, economic development, human population, zero population growth, introduction to single-topic issue on the human population	falling death rates falling death rates population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 population of China, at 600 million population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 pores, cell membrane, erythrocyte pornography, commission report porphyria, dermatology, pink tooth disease, gene pool, tracking porphyna among Afrikaaners heredity, genetic disease, metabolic disease, George III porphyrin ring, chelation, metal ions, sequestering, ring compounds, organometallic compounds, metal-poisoning antidote, chemical separation porpoise navigation, animal navigation, by sonar? porpoises, animal communication, fish communication, crustacea, whale, marine biology, animal sounds in the sea portland cement, concrete, hydration, X-ray diffraction, cement, chemistry of concrete 1964 Apr p 80-92
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17–23 animal behavior, population cycles, lemmings 1974 June p 38–46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160–170 Catholic essay contest 1956 Apr p 71 abortions in Japan 1960 Jan p 79 population cycles, animal behavior, population control, lemmings 1974 June p 38–46 [1296] population density, foodchain, food chain, human population, ecology, 'the human crop' 1956 Apr p 105–112 group behavior, crowding, rats, comparative psychology, social pathology of crowding 1962 Feb p 139–148 [506] housing, land use, shantytowns, taxation, government regulation, urban planning, cities, control of land use 1965 Sept p 150–160 population explosion, demographics, population growth, cultural evolution, agricultural revolution, Industrial Revolution, human evolution, historical perspective on human population growth, how many ever lived 1960 Sept p 194–204 [608] demographic transition, economic development, human population, zero population growth, introduction to single-topic issue on the human population human population evolution agrowth, introduction to single-topic issue on the human population	production statistics, natural resources, demographic transition 1976 July p 28-35 falling death rates population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 1964 Feb p 114-121 [619] population of China, at 600 million 1955 Apr p 52 population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 1971 July p 17-25 pores, cell membrane, erythrocyte 1960 Dec p 146-156 pornography, commission report 1970 Nov p 42 porphyria, dermatology, pink tooth disease, gene pool, tracking porphyna among Afrikaaners 1957 Mar p 133-142 heredity, genetic disease, metabolic disease, George III 1969 July p 38-46 [1149] porphyrin ring, chelation, metal ions, sequestering, ring compounds, organometallic compounds, metal-poisoning antidote, chemical separation 1953 June p 68-76 porpoises, animal communication, fish communication, crustacea, whale, marine biology, animal sounds in the sea 1956 Apr p 93-102 how they ride the bow-wave Portland cement, concrete, hydration, X-ray diffraction, cement, chemistry of concrete 1964 Apr p 80-92 cement, chemical reaction, high-alumina cement, cement hardening
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17–23 animal behavior, population cycles, lemmings 1974 June p 38–46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160–170 Catholic essay contest 1956 Apr p 71 abortions in Japan 1960 Jan p 79 population cycles, animal behavior, population control, lemmings 1974 June p 38–46 [1296] population density, foodchain, food chain, human population, ecology, 'the human crop' 1956 Apr p 105–112 group behavior, crowding, rats, comparative psychology, social pathology of crowding 1962 Feb p 139–148 [506] housing, land use, shantytowns, taxation, government regulation, urban planning, cities, control of land use 1965 Sept p 150–160 population explosion, demographics, population growth, cultural evolution, agricultural revolution, Industrial Revolution, human evolution, historical perspective on human population growth, how many ever lived 1960 Sept p 194–204 [608] demographic transition, economic development, human population, zero population growth, introduction to single-topic issue on the	falling death rates falling death rates population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 population of China, at 600 million population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 pores, cell membrane, erythrocyte pornography, commission report porphyria, dermatology, pink tooth disease, gene pool, tracking porphyna among Afrikaaners heredity, genetic disease, metabolic disease, George III porphyrin ring, chelation, metal ions, sequestering, ring compounds, organometallic compounds, metal-poisoning antidote, chemical separation porpoise navigation, animal navigation, by sonar? porpoises, animal communication, fish communication, crustacea, whale, marine biology, animal sounds in the sea portland cement, concrete, hydration, X-ray diffraction, cement, chemical reaction, high-alumina cement, cement hardening and strength 1977 July p 82–90 [370]
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17-23 animal behavior, population cycles, lemmings 1974 June p 38-46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160-170 Catholic essay contest 1956 Apr p 71 abortions in Japan 1960 Jan p 79 population cycles, animal behavior, population control, lemmings 1974 June p 38-46 [1296] population density, foodchain, food chain, human population, ecology, 'the human crop' 1956 Apr p 105-112 group behavior, crowding, rats, comparative psychology, social pathology of crowding 1962 Feb p 139-148 [506] housing, land use, shantytowns, taxation, government regulation, urban planning, cities, control of land use 1965 Sept p 150-160 population explosion, demographics, population growth, cultural evolution, agricultural revolution, Industrial Revolution, human evolution, instorical perspective on human population growth, how many ever lived 1960 Sept p 194-204 [608] demographic transition, economic development, human population, zero population growth, introduction to single-topic issue on the human population birth rate, mortality rates, developing countries, human population 1974 Sept p 148-159	falling death rates falling death rates population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 population of China, at 600 million population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 porres, cell membrane, erythrocyte pornography, commission report porphyria, dermatology, pink tooth disease, gene pool, tracking porphyna among Afrikaaners heredity, genetic disease, metabolic disease, George III porphyrin ring, chelation, metal ions, sequestering, ring compounds, organometallic compounds, metal-poisoning antidote, chemical separation porpoise navigation, animal navigation, by sonar? porpoises, animal communication, fish communication, crustacea, whale, marine biology, animal sounds in the sea how they ride the bow-wave Portland cement, concrete, hydration, X-ray diffraction, cement, chemical reaction, high-alumina cement, cement hardening and strength Portuguese man-of-war, social behavior, nematocysts, coelenterate
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17-23 animal behavior, population cycles, lemmings 1974 June p 38-46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160-170 Catholic essay contest 1956 Apr p 71 abortions in Japan 1960 Jan p 79 population cycles, animal behavior, population control, lemmings 1974 June p 38-46 [1296] population density, foodchain, food chain, human population, ecology, 'the human crop' 1956 Apr p 105-112 group behavior, crowding, rats, comparative psychology, social pathology of crowding 1962 Feb p 139-148 [506] housing, land use, shantytowns, taxation, government regulation, urban planning, cities, control of land use 1965 Sept p 150-160 population explosion, demographics, population growth, cultural evolution, agricultural revolution, Industrial Revolution, human evolution, instorical perspective on human population growth, how many ever lived 1960 Sept p 194-204 [608] demographic transition, economic development, human population, zero population growth, introduction to single-topic issue on the human population 1974 Sept p 30-39 birth rate, mortality rates, developing countries, human population 1974 Sept p 148-159	falling death rates falling death rates population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 population of China, at 600 million population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 pores, cell membrane, erythrocyte pornography, commission report porphyria, dermatology, pink tooth disease, gene pool, tracking porphyna among Afrikaaners heredity, genetic disease, metabolic disease, George III porphyrin ring, chelation, metal ions, sequestering, ring compounds, organometallic compounds, metal-poisoning antidote, chemical separation porpoises, animal communication, fish communication, crustacea, whale, marine biology, animal sounds in the sea how they ride the bow-wave Portland cement, concrete, hydration, X-ray diffraction, cement, chemical reaction, high-alumina cement, cement hardening and strength Portuguese man-of-war, social behavior, nematocysts, coelenterate 1950 Mar p 138-46 1951 Mar p 133-142 1953 Mar p 138-46 1954 Apr p 80-92 1955 Apr p 93-102 1959 June p 81 1959 June p 81 1959 June p 81 1959 June p 81
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17–23 animal behavior, population cycles, lemmings 1974 June p 38–46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160–170 Catholic essay contest 1956 Apr p 71 abortions in Japan 1960 Jan p 79 population cycles, animal behavior, population control, lemmings 1974 June p 38–46 [1296] population density, foodchain, food chain, human population, ecology, 'the human crop' 1956 Apr p 105–112 group behavior, crowding, rats, comparative psychology, social pathology of crowding 1962 Feb p 139–148 [506] housing, land use, shantytowns, taxation, government regulation, urban planning, cities, control of land use 1965 Sept p 150–160 population explosion, demographics, population growth, cultural evolution, agricultural revolution, Industrial Revolution, human evolution, historical perspective on human population growth, how many ever lived 1960 Sept p 194–204 [608] demographic transition, economic development, human population, zero population growth, introduction to single-topic issue on the human population 1974 Sept p 30–39 birth rate, mortality rates, developing countries, human population 1974 Sept p 148–159 see also demographic transition population, genetics, evolution, E coli, Drosophila, mutation, sexual	falling death rates falling death rates population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 population of China, at 600 million population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 pores, cell membrane, erythrocyte pornography, commission report porphyria, dermatology, pink tooth disease, gene pool, tracking porphyna among Afrikaaners heredity, genetic disease, metabolic disease, George III porphyrin ring, chelation, metal ions, sequestering, ring compounds, organometallic compounds, metal-poisoning antidote, chemical separation porpoise navigation, animal navigation, by sonar? porpoises, animal communication, fish communication, crustacea, whale, marine biology, animal sounds in the sea how they ride the bow-wave Portland cement, concrete, hydration, X-ray diffraction, cement, chemical reaction, high-alumina cement, cement hardening and strength Portuguese man-of-war, social behavior, nematocysts, coelenterate colonies Poseidon missile, arms race, missile submarines, SLBM, MIRV, Polans,
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17–23 animal behavior, population cycles, lemmings 1974 June p 38–46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160–170 Catholic essay contest 1956 Apr p 71 abortions in Japan 1960 Jan p 79 population cycles, animal behavior, population control, lemmings 1974 June p 38–46 [1296] population density, foodchain, food chain, human population, ecology, 'the human crop' 1956 Apr p 105–112 group behavior, crowding, rats, comparative psychology, social pathology of crowding 1962 Feb p 139–148 [506] housing, land use, shantytowns, taxation, government regulation, urban planning, cities, control of land use 1965 Sept p 150–160 population explosion, demographics, population growth, cultural evolution, historical perspective on human population growth, how many ever lived 1960 Sept p 194–204 [608] demographic transition, economic development, human population, zero population growth, introduction to single-topic issue on the human population 1974 Sept p 30–39 birth rate, mortality rates, developing countries, human population population genetics, evolution, E coli, Drosophila, mutation, sexual recombination, speciation, natural selection, genetic basis of 1950 Jan p 32–41 [6]	falling death rates 1976 July p 28-35 falling death rates 1958 Feb p 50 population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 1964 Feb p 114-121 [619] population of China, at 600 million 1955 Apr p 52 population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 1971 July p 17-25 pores, cell membrane, erythrocyte 1960 Dec p 146-156 pornography, commission report 1970 Nov p 42 porphyria, dermatology, pink tooth disease, gene pool, tracking porphyna among Afrikaaners 1957 Mar p 133-142 heredity, genetic disease, metabolic disease, George III 1969 July p 38-46 [1149] porphyrin ring, chelation, metal ions, sequestering, ring compounds, organometallic compounds, metal-poisoning antidote, chemical separation 1953 June p 68-76 porpoise navigation, animal navigation, by sonar? 1953 May p 60 porpoises, animal communication, fish communication, crustacea, whale, marine biology, animal sounds in the sea 1956 Apr p 93-102 how they ride the bow-wave 1959 June p 81 Portland cement, concrete, hydration, X-ray diffraction, cement, chemical reaction, high-alumina cement, cement hardening and strength 1977 July p 82-90 [370] Portuguese man-of-war, social behavior, nematocysts, coelenterate colonies 1960 Mar p 158-168 Poseidon missile, arms race, missile submarines, SLBM, MIRV, Polans, 1972 June p 15-27 [344]
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17–23 animal behavior, population cycles, lemmings 1974 June p 38–46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160–170 Catholic essay contest 1956 Apr p 71 abortions in Japan 1960 Jan p 79 population cycles, animal behavior, population control, lemmings 1974 June p 38–46 [1296] population density, foodchain, food chain, human population, ecology, 'the human crop' 1956 Apr p 105–112 group behavior, crowding, rats, comparative psychology, social pathology of crowding 1962 Feb p 139–148 [506] housing, land use, shantytowns, taxation, government regulation, urban planning, cities, control of land use 1965 Sept p 150–160 population explosion, demographics, population growth, cultural evolution, historical perspective on human population growth, how many ever lived 1960 Sept p 194–204 [608] demographic transition, economic development, human population, zero population growth, introduction to single-topic issue on the human population 1974 Sept p 30–39 birth rate, mortality rates, developing countries, human population population genetics, evolution, E coli, Drosophila, mutation, sexual recombination, speciation, natural selection, genetic basis of 1950 Jan p 32–41 [6]	falling death rates 1976 July p 28-35 falling death rates 1958 Feb p 50 population history, epidemiology, human behavior, bubomic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 1964 Feb p 114-121 [619] population of China, at 600 million 1955 Apr p 52 population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 1971 July p 17-25 pores, cell membrane, erythrocyte 1960 Dec p 146-156 pornography, commission report 1970 Nov p 42 porphyria, dermatology, pink tooth disease, gene pool, tracking porphyria among Afrikaaners 1957 Mar p 133-142 heredity, genetic disease, metabolic disease, George III porphyrin ring, chelation, metal ions, sequestering, ring compounds, organometallic compounds, metal-poisoning antidote, chemical separation 1953 June p 68-76 porpoises navigation, animal navigation, by sonar? 1953 May p 60 porpoises, animal communication, fish communication, crustacea, whale, marine biology, animal sounds in the sea 1956 Apr p 93-102 how they ride the bow-wave 1959 June p 81 Portland cement, concrete, hydration, X-ray diffraction, cement, chemistry of concrete 1960 Mar p 80-92 cement, chemical reaction, high-alumina cement, cement hardening and strength 1977 July p 82-90 [370] Portuguese man-of-war, social behavior, nematocysts, coelenterate colonies Poseidon missile, arms race, missile submarines, SLBM, MIRV, Polans, Trident 1972 June p 15-27 [344]
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17-23 animal behavior, population cycles, lemmings 1974 June p 38-46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160-170 Catholic essay contest 1956 Apr p 71 abortions in Japan 1960 Jan p 79 population cycles, animal behavior, population control, lemmings 1974 June p 38-46 [1296] population density, foodchain, food chain, human population, ecology, 'the human crop' 1956 Apr p 105-112 group behavior, crowding, rats, comparative psychology, social pathology of crowding 1962 Feb p 139-148 [506] housing, land use, shantytowns, taxation, government regulation, urban planning, cities, control of land use 1965 Sept p 150-160 population explosion, demographics, population growth, cultural evolution, agricultural revolution, Industrial Revolution, human evolution, historical perspective on human population growth, how many ever lived 1960 Sept p 194-204 [608] demographic transition, economic development, human population, zero population growth, introduction to single-topic issue on the human population 1974 Sept p 30-39 birth rate, mortality rates, developing countries, human population 1974 Sept p 148-159 see also demographic transition population genetics, evolution, E coli, Drosophila, mutation, sexual recombination, speciation, natural selection, genetic basis of evolution American Negro, skin color, blood typing, recessive gene, marriage 1954 Oct p 80-85	falling death rates falling death rates population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 population of China, at 600 million population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 pores, cell membrane, erythrocyte pornography, commission report porphyria, dermatology, pink tooth disease, gene pool, tracking porphyna among Afrikaaners heredity, genetic disease, metabolic disease, George III porphyrin ring, chelation, metal ions, sequestering, ring compounds, organometallic compounds, metal-poisoning antidote, chemical separation porpoises, animal communication, fish communication, crustacea, whale, marine biology, animal sounds in the sea how they ride the bow-wave Portland cement, concrete, hydration, X-ray diffraction, cement, chemical reaction, high-alumina cement, cement hardening and strength Portuguese man-of-war, social behavior, nematocysts, coelenterate colomes Poseidon missile, arms race, missile submarines, SLBM, MIRV, Polans, Trident positive feedback, feedback, control loop, servomechanisms, flyball governor, negative feedback, ecological system, nervous system,
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17-23 animal behavior, population cycles, lemmings 1974 June p 38-46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160-170 Catholic essay contest 1956 Apr p 71 abortions in Japan 1960 Jan p 79 population cycles, animal behavior, population control, lemmings 1974 June p 38-46 [1296] population density, foodchain, food chain, human population, ecology, 'the human crop' 1956 Apr p 105-112 group behavior, crowding, rats, comparative psychology, social pathology of crowding 1962 Feb p 139-148 [506] housing, land use, shantytowns, taxation, government regulation, urban planning, cities, control of land use 1965 Sept p 150-160 population explosion, demographics, population growth, cultural evolution, agricultural revolution, Industrial Revolution, human evolution, historical perspective on human population growth, how many ever lived 1960 Sept p 194-204 [608] demographic transition, economic development, human population, zero population growth, introduction to single-topic issue on the human population 1974 Sept p 30-39 birth rate, mortality rates, developing countries, human population 1974 Sept p 148-159 see also demographic transition population genetics, evolution, E coli, Drosophila, mutation, sexual recombination, speciation, natural selection, genetic basis of evolution American Negro, skin color, blood typing, recessive gene, marriage 1954 Oct p 80-85	falling death rates 1976 July p 28-35 population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 1964 Feb p 114-121 [619] population of China, at 600 million 1955 Apr p 52 population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 1971 July p 17-25 pores, cell membrane, erythrocyte 1960 Dec p 146-156 pornography, commission report 1970 Nov p 42 porphyria, dermatology, pink tooth disease, gene pool, tracking porphyna among Afrikaaners 1957 Mar p 133-142 heredity, genetic disease, metabolic disease, George III 1969 July p 38-46 [1149] porphyrin ring, chelation, metal ions, sequestering, ring compounds, organometallic compounds, metal-poisoning antidote, chemical separation 1953 June p 68-76 porpoise navigation, animal navigation, by sonar? 1953 May p 60 porpoises, animal communication, fish communication, crustacea, whale, marine biology, animal sounds in the sea 1956 Apr p 93-102 how they ride the bow-wave 1959 June p 81 Portland cement, concrete, hydration, X-ray diffraction, cement, chemistry of concrete 1964 Apr p 80-92 cement, chemical reaction, high-alumina cement, cement hardening and strength 1977 July p 82-90 [370] Portuguese man-of-war, social behavior, nematocysts, coelenterate colonies 1960 Mar p 158-168 Poseidon missile, arms race, missile submarines, SLBM, MIRV, Polans, Trident 1972 June p 15-27 [344] positive feedback, feedback, control loop, servomechanisms, flyball governor, negative feedback, ecological system, nervous system,
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17–23 animal behavior, population cycles, lemmings 1974 June p 38–46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160–170 Catholic essay contest 1956 Apr p 71 abortions in Japan 1960 Jan p 79 population cycles, animal behavior, population control, lemmings 1974 June p 38–46 [1296] population density, foodchain, food chain, human population, ecology, 'the human crop' 1956 Apr p 105–112 group behavior, crowding, rats, comparative psychology, social pathology of crowding 1962 Feb p 139–148 [506] housing, land use, shantytowns, taxation, government regulation, urban planning, cities, control of land use 1965 Sept p 150–160 population explosion, demographics, population growth, cultural evolution, agricultural revolution, Industrial Revolution, human evolution, instorical perspective on human population growth, how many ever lived 1960 Sept p 194–204 [608] demographic transition, economic development, human population, zero population growth, introduction to single-topic issue on the human population prowth, introduction to single-topic issue on the human population prowth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population prowth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population growth, increase and in the production growth growth growth growth growth growt	falling death rates 1976 July p 28-35 population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 1964 Feb p 114-121 [619] population of China, at 600 million 1955 Apr p 52 population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 1971 July p 17-25 pores, cell membrane, erythrocyte 1960 Dec p 146-156 pornography, commission report 1970 Nov p 42 porphyria, dermatology, pink tooth disease, gene pool, tracking porphyria among Afrikaaners 1957 Mar p 133-142 heredity, genetic disease, metabolic disease, George III 1969 July p 38-46 [1149] porphyrin ring, chelation, metal ions, sequestering, ring compounds, organometallic compounds, metal-poisoning antidote, chemical separation 1953 June p 68-76 porpoise navigation, animal navigation, by sonar? 1953 May p 60 porpoises, animal communication, fish communication, crustacea, whale, marine biology, animal sounds in the sea 1956 Apr p 93-102 how they ride the bow-wave 1959 June p 81 Portland cement, concrete, hydration, X-ray diffraction, cement, chemistry of concrete 1964 Apr p 80-92 cement, chemical reaction, high-alumina cement, cement hardening and strength 1977 July p 82-90 [370] Portuguese man-of-war, social behavior, nematocysts, coelenterate colonies Poseidon missile, arms race, missile submarines, SLBM, MIRV, Polans, Trident 1972 June p 15-27 [344] positive feedback, feedback, control loop, servomechanisms, flyball governor, negative feedback, ecological system, nervous system, economic system, automatic control, feedback concept
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17–23 animal behavior, population cycles, lemmings [1974 June p 38–46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160–170 Catholic essay contest 1956 Apr p 71 abortions in Japan 1960 Jan p 79 population cycles, animal behavior, population control, lemmings 1974 June p 38–46 [1296] population density, foodchain, food chain, human population, ecology, the human crop 1956 Apr p 105–112 group behavior, crowding, rats, comparative psychology, social pathology of crowding 1962 Feb p 139–148 [506] housing, land use, shantytowns, taxation, government regulation, urban planning, cities, control of land use 1965 Sept p 150–160 population explosion, demographics, population growth, cultural evolution, agricultural revolution, Industrial Revolution, human evolution, historical perspective on human population growth, how many ever lived 1960 Sept p 194–204 [608] demographic transition, economic development, human population, zero population growth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population growth, introduction growth, introduction to single-topic issue on the human population growth, introduction growth, introduction growth, introduc	falling death rates 1976 July p 28-35 population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 1964 Feb p 114-121 [619] population of China, at 600 million 1955 Apr p 52 population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 1971 July p 17-25 pores, cell membrane, erythrocyte 1960 Dec p 146-156 pornography, commission report 1970 Nov p 42 porphyria, dermatology, pink tooth disease, gene pool, tracking porphyria among Afrikaaners 1957 Mar p 133-142 heredity, genetic disease, metabolic disease, George III 1969 July p 38-46 [1149] porphyrin ring, chelation, metal ions, sequestering, ring compounds, organometallic compounds, metal-poisoning antidote, chemical separation 1953 June p 68-76 porpoises, animal communication, fish communication, crustacea, whale, marine biology, animal sounds in the sea 1956 Apr p 93-102 how they ride the bow-wave 1959 June p 81 Portland cement, concrete, hydration, X-ray diffraction, cement, chemical reaction, high-alumina cement, cement hardening and strength 1977 July p 82-90 [370] Portuguese man-of-war, social behavior, nematocysts, coelenterate colomes 1960 Mar p 158-168 Poseidon missile, arms race, missile submarines, SLBM, MIRV, Polans, Trident 1972 June p 15-27 [344] positive feedback, feedback, control loop, servomechanisms, flyball governor, negative feedback, ecological system, nervous system, economic system, automatic control, feedback concept 1952 Sept p 48-55
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17–23 animal behavior, population cycles, lemmings [1974 June p 38–46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160–170 Catholic essay contest 1956 Apr p 71 abortions in Japan 1960 Jan p 79 population cycles, animal behavior, population control, lemmings 1974 June p 38–46 [1296] population density, foodchain, food chain, human population, ecology, the human crop 1956 Apr p 105–112 group behavior, crowding, rats, comparative psychology, social pathology of crowding 1962 Feb p 139–148 [506] housing, land use, shantytowns, taxation, government regulation, urban planning, cities, control of land use 1965 Sept p 150–160 population explosion, demographics, population growth, cultural evolution, agricultural revolution, Industrial Revolution, human evolution, historical perspective on human population growth, how many ever lived 1960 Sept p 194–204 [608] demographic transition, economic development, human population, zero population growth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population growth, introduction to single-topic issue on the human population growth, introduction growth, introduction to single-topic issue on the human population growth, introduction growth, introduction growth, introduc	falling death rates falling death rates population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 population of China, at 600 million population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 pores, cell membrane, erythrocyte pornography, commission report porphyria, dermatology, pink tooth disease, gene pool, tracking porphyna among Afrikaaners heredity, genetic disease, metabolic disease, George III porphyrin ring, chelation, metal ions, sequestering, ring compounds, organometallic compounds, metal-poisoning antidote, chemical separation porpoise navigation, animal navigation, by sonar? porpoises, animal communication, fish communication, crustacea, whale, marine biology, animal sounds in the sea how they ride the bow-wave Portland cement, concrete, hydration, X-ray diffraction, cement, chemical reaction, high-alumina cement, cement hardening and strength Portuguese man-of-war, social behavior, nematocysts, coelenterate colonies Poseidon missile, arms race, missile submannes, SLBM, MIRV, Polans, Tindent positive feedback, feedback, control loop, servomechanisms, flyball governor, negative feedback, ecological system, nervous system, economic system, automatic control, feedback concept positive fon plasma, plasma physics, electron plasma, 'hole' plasma, the most in solids as models for study of cas plasmas, the most in solids as models for study of cas plasmas, the most in solids as models for study of cas plasmas,
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17–23 animal behavior, population cycles, lemmings 1974 June p 38–46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160–170 Catholic essay contest 1956 Apr p 71 abortions in Japan 1960 Jan p 79 population density, foodchain, food chain, human population, ecology, 'the human crop' 1956 Apr p 105–112 group behavior, crowding, rats, comparative psychology, social pathology of crowding 1962 Feb p 139–148 [506] housing, land use, shantytowns, taxation, government regulation, urban planning, cities, control of land use 1965 Sept p 150–160 population explosion, demographics, population growth, cultural evolution, agricultural revolution, Industrial Revolution, human evolution, historical perspective on human population growth, how many ever lived 1960 Sept p 194–204 [608] demographic transition, economic development, human population, zero population growth, introduction to single-topic issue on the human population birth rate, mortality rates, developing countries, human population, see also demographic transition population genetics, evolution, E coli, Drosophila, mutation, sexual recombination, speciation, natural selection, genetic basis of evolution American Negro, skin color, blood typing, recessive gene, marriage preferences, genetic meaning of race 1950 Jan p 32–41 [6] American Negro, skin color, blood typing, recessive gene, marriage preferences, genetic meaning of race 1954 Oct p 80–85 blood typing, Judaism, racial discrimination, religious persecution, social evolution, genetic drift, Jewish community of Rome 1957 Mar p 118–128	falling death rates 1976 July p 28-35 population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 1964 Feb p 114-121 [619] population of China, at 600 million 1955 Apr p 52 population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 1971 July p 17-25 pores, cell membrane, erythrocyte 1960 Dec p 146-156 pornography, commission report 1970 Nov p 42 porphyria, dermatology, pink tooth disease, gene pool, tracking porphyria among Afrikaaners 1957 Mar p 133-142 heredity, genetic disease, metabolic disease, George III 1969 July p 38-46 [1149] porphyrin ring, chelation, metal ions, sequestering, ring compounds, organometallic compounds, metal-poisoning antidote, chemical separation 1953 June p 68-76 porpoises, animal communication, fish communication, crustacea, whale, marine biology, animal sounds in the sea 1956 Apr p 93-102 how they ride the bow-wave 1959 June p 81 Portland cement, concrete, hydration, X-ray diffraction, cement, chemical reaction, high-alumina cement, cement hardening and strength 1977 July p 82-90 [370] Portuguese man-of-war, social behavior, nematocysts, coelenterate colomes 1960 Mar p 158-168 Poseidon missile, arms race, missile submarines, SLBM, MIRV, Polans, Trident 1972 June p 15-27 [344] positive feedback, feedback, control loop, servomechanisms, flyball governor, negative feedback, ecological system, nervous system, economic system, automatic control, feedback concept 1952 Sept p 48-55
abortion, birth control, contraception, family planning, public policy in US 1973 July p 17–23 animal behavior, population cycles, lemmings 1974 June p 38–46 [1296] food supply, human nutrition, world food bank, human population, agricultural production 1974 Sept p 160–170 Catholic essay contest 1956 Apr p 71 abortions in Japan 1960 Jan p 79 population cycles, animal behavior, population control, lemmings 1974 June p 38–46 [1296] population density, foodchain, food chain, human population, ecology, 'the human crop' 1956 Apr p 105–112 group behavior, crowding, rats, comparative psychology, social pathology of crowding 1962 Feb p 139–148 [506] housing, land use, shantytowns, taxation, government regulation, urban planning, cities, control of land use 1965 Sept p 150–160 population explosion, demographics, population growth, cultural evolution, agricultural revolution, Industrial Revolution, human evolution, historical perspective on human population growth, how many ever lived 1960 Sept p 194–204 [608] demographic transition, economic development, human population, zero population growth, introduction to single-topic issue on the human population 1974 Sept p 30–39 birth rate, mortality rates, developing countries, human population population genetics, evolution, Ecoli, Drosophila, mutation, sexual recombination, speciation, natural selection, genetic basis of evolution 1950 Jan p 32–41 [6] American Negro, skin color, blood typing, recessive gene, marriage preferences, genetic meaning of race 1954 Oct p 80–85 blood typing, Judaism, racial discrimination, religious persecution,	falling death rates falling death rates population history, epidemiology, human behavior, bubonic plague, public health, Black Death, long-term effects of plague, Europe 1348-50 population of China, at 600 million population redistribution, U S population, U S census, human migration suburbanization, U S census of 1970 pores, cell membrane, erythrocyte pornography, commission report porphyria, dermatology, pink tooth disease, gene pool, tracking porphyna among Afrikaaners heredity, genetic disease, metabolic disease, George III porphyrin ring, chelation, metal ions, sequestering, ring compounds, organometallic compounds, metal-poisoning antidote, chemical separation porpoise navigation, animal navigation, by sonar? porpoises, animal communication, fish communication, crustacea, whale, marine biology, animal sounds in the sea how they ride the bow-wave Portland cement, concrete, hydration, X-ray diffraction, cement, chemical reaction, high-alumina cement, cement hardening and strength Portuguese man-of-war, social behavior, nematocysts, coelenterate colonies Poseidon missile, arms race, missile submannes, SLBM, MIRV, Polans, Tindent positive feedback, feedback, control loop, servomechanisms, flyball governor, negative feedback, ecological system, nervous system, economic system, automatic control, feedback concept positive fon plasma, plasma physics, electron plasma, 'hole' plasma, the most in solids as models for study of cas plasmas, the most in solids as models for study of cas plasmas, the most in solids as models for study of cas plasmas,

positron, elementary particles, electron, proton, particle counters, neutron, mesons, photon, neutrino, particle accelerator, nuclear binding force, 'Meson Song' 1948 June p 26–39 positronium, electron, quantum electrodynamics, 'model atom' 1954 Dec p 88–92 antiproton, proton, Bevatron, antimatter, high-energy physics, postulation and discovery of antiproton 1956 June p 37–41 [244] antimatter, g factor, electron, magnetic moment, electron spin, magnetic bottle 1968 Jan p 72–85 beta decay, bubble chamber experiments, high-energy physics, hadrons, neutrino beam, particle accelerator 1973 Aug p 30–38 positron probes, antimatter, crystal structure, gamma radiation, gravitational interaction, solid state physics, scintigraph 1975 July p 34–42 positronium, positron, electron, quantum electrodynamics, 'model atom' 1954 Dec p 88–92 muonium, muon, electron, elementary particles, electromagnetism, atom, structure of muonium 1966 Apr p 93–100 postsynaphre potential, nerve circuits, dendrites, synapse, olfactory bulb, retina, microcircuits in the nervous system 1978 Feb p 92–103 [1380] posture, nonverbal communication, anthropology, cultural relativism 1957 Feb p 122–132 potato blight, mycology, fungi, wheat rust, ergot, morel, amanita, Pemcilhum notatum, yeast, molds and men 1952 Jan p 28–32 [115] Irish potato famine, social influence of the potato 1952 Dec p 50–56 fungal infection, plant genetics, late blight of potatoes 1959 May p 100–112 [109] potato virus, Lysenko, genetics, virus disease, vernalization, agronomy, the Lysenko affair 1969 May p 66–74 potential theory, Brownian motion, probabilistic potential theory, harmonic functions 1969 Mar p 66–74 potential theory, Brownian motion, probabilistic potential theory, harmonic functions 1969 Mar p 66–74 pottery, human migration, navigation, Japan, Ecuador, New World archeology, evidence for 3,000 B C trans-Pacific contact 1966 Jan p 28–35 pottery age, fission-track dating, geochronology, glass age, meteorite age, muneral age, radioactive decay, uranium fission 1976 Dec	energy, power machines, mechanical energy, biological energy, economic development, introduction to a single-topic issue on energy and power 1971 Sept p 36-49 [661] celestial energy, cosmological 'hangups', energy cycle, radiation energy, entropy per unit energy, gravitational energy, stellar evolution, thermonuclear energy 1971 Sept p 50-59 [662] energy consumption, energy resources, fission fuels, fossil fuel, fusion fuels, geothermal energy, solar energy, tidal energy 1971 Sept p 60-70 [663] biosphere, energy cycle, photosynthesis, respiration, radiation energy, solar radiation, terrestrial radiation 1971 Sept p 88-100 [664] energy cycle, Eskimo, hunting societies, food chain, seal, Baffin Island, ecosystem 1971 Sept p 104-115 [665] animal husbandry, ecosystem, energy cycle, agricultural system, New Guinea, tropical agriculture 1971 Sept p 104-115 [665] energy cycle, industrial society, U S economy, ecosystem, environmental protection 1971 Sept p 134-144 [667] energy transformation, energy demand, fuel-conversion efficiency, prime movers, steam turbines, magnetohydrodynamics, gas turbine, internal combustion engine, fuel cell, solar cells, power, nuclear power, comparative efficiencies of energy transformation pathways in industrial civilization 1971 Sept p 148-160 [668] energy economics, energy storage, economic geography, pipelines, power transmission, tankers, economic geography of energy production, distribution and consumption 1971 Sept p 179-188 [670] power machines, energy, mechanical energy, biological energy, economic development, power, introduction to a single-topic issue on energy and power 1971 Sept p 36-49 [661] power production, decision theory, energy economics, technology assessment, tort law, economic planning, market process 1971 Sept p 36-49 [661] power fransmission, alternating current, electric power, high-voltage transmission, alternating current, electric power, high-voltage transmission, economic advantages of high-voltage transmission 1964 May p 38-47 energy economics, energy storag
1960 July p 86–103 education, group behavior, rural poverty, community action, emotional illness, social psychology, study of community regeneration 1965 May p 21–27 [634]	prairie dogs, comparative psychology, animal behavior, social behavior, territorial behavior, innate behavior, learning behavior, field
racial discrimination, segregation, American Negro, Puerto Ricans, housing 1965 Aug p 12–19 [626] shantytowns, Calcutta, cities, urbanization, caste, housing, traffic, Calcutta, a city of the poor 1965 Sept p 90–102 group behavior, community action, culture of poverty, subculture of Western market societies 1966 Oct p 19–25 [631] human nutrition, hunger, population growth, developing countries, health, world poverty 1968 Nov p 27–35 Mexico City, buying habits, sociology, culture of poverty 1969 Oct p 114–124 [651] adolescence, family, alienation, racial discrimination, divorce, infant mortality, crime, suicide, drug addiction, changes in American family structure 1974 Aug p 53–61 [561] developing countries, hunger, malnutrition, food and agriculture, human nutrition 1976 Sept p 40–49 in U S population 1972 Apr p 56 power, electronics, electron tubes, amplifiers, communication technology, rectifiers, electron optics, cathode ray tube, communication, thermionic emission, state of the technology 1950 Oct p 30–39 Atomic Energy Act, patent law, licensing international cooperation, military secreey, inernational cooperation, major provisions of Atomic Energy Act of 1954 1954 Nov p 31–35	before present 1961 Mar p 72-78 [837] Precambrian fossils, gunflint cherts 1965 Apr p 60 Precambrian reactor, fission products, natural reactor, nuclear fission, Oklo phenomenon, uranium deposits 1976 July p 36-47 Precambrian rocks, bacteria, blue-green algae, fossil cells, evolution, Gunflint cherts, origins of life, prokaryotic cells, oldest fossils 1971 May p 30-42 [395] precession, Chandler wobble, earthquake effects, Earth rotation 1971 Dec p 80-88 [897] precipitation, water cycle, transpiration, evaporation, runoff, agricultural system, ocean, biosphere, photosynthesis 1970 Sept p 98-108 [1191] precipitation in solids, materials technology, solid state physics, crystal defects, epitaxial growth, surface chemistry, 'doping', chemical properties of materials 1967 Sept p 210-220 predation, alfalfa caterpillar, ecology, insecticide, life cycle, agricultural pest, wilt disease 1954 June p 38-42

biological sciences, mathematics, self-reproducing machine, nerve	nelmate an about a second
impulse, Furing machine, automata theory, mathematics in biology	primate evolution, anthropoid, fossil primates, hominoid, early relatives
1964 Sept n 149 16	
plant toxins, food chain, milkweed, blue fiv preditor-prov	hominoid, fossil primates, apes, man-apes, Fayum, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636]
relationship, mimicry, ecology, chemical defense against predation	homing human a clution Manage for to D.
1969 Feb is 32_20 (1122	1977 May p 28-35 [695]
air pollution, evolution, melanism, moths, gene mutation, population genetics, evolution observed again 1975 Jan p 90-99 [13].	Gigantopithecus jaw in India 1968 Aug. n 45
genetics, evolution observed again 1975 Jan p 90-99 [1314 predator-prey relationship, tarantula, digger wasp, symbiosis	primate societies, primate behavior, monkey, Japanese macaques.
	protocultural behavior, social status 1976 Oct p 96-106 [1345]
animal behavior, tawny owl, nocturnal animals 1952 Aug p 20-2: 1955 Oct p 88-98	
insect venom, Chaga's disease, assassin bugs, entomology, natural	
nistory 1960 June p. 72–78	years ago 1948 May p 16-19
insect evolution, predatory wasps, solitary wasps, species specificity	human evolution, oreopithecus, orepithecus in lineage of Homo sapiens 1956 June p 91-100
parasitism, behavioral clues to evolution 1963 Apr p. 144_153	locomotion, walking, human evolution, bipedal walking, muscle, bone,
archer lish, animal behavior, natural history, Toxotes	fossil record, origin of human walking 1967 Apr. n. 56-66 [1070]
1963 July p 100–108	prime movers, energy transformation, energy demand, fuel-conversion
sonar, bats, moths, auditory perception, ultrasound, moth sonar	efficiency, power, steam turbines, magnetohydrodynamics, 235
detection of bat ultrasound 1965 Apr p, 94-102 [1009]	
predation, plant toxins, food chain, milkweed, blue jay, mimicry, ecology, chemical defense against predation	nuclear power, comparative efficiencies of energy transformation
1969 Feb p 22–29 [1133]	pathways in industrial civilization 1971 Sept p 148-160 [668]
animal behavior, lions, symbiosis 1975 May p 54-65	***
animal behavior, spiders, Arachnida, social spiders	composite numbers 1951 July p 32-33 mathematics, science history, sieve of Eratosthenes, mathematical
1976 Mar p 100–106	sieves and their uses 1958 Dec p 105-112
predatory wasps, insect evolution, solitary wasps, species specificity,	computer generates largest 1952 Feb p 40
predator-prey relationship, parasitism, behavioral clues to evolution	largest is 10 19 937 - 1 1971 June p 56
1963 Apr. p 144–154	rep-unit R ₁₁₇ 1978 Feb p 89
prefrontal lobotomy, psychosurgery, after 5,000 operations in the US, an	primeval fireball, cosmology, universe expansion, cosmic background
evaluation 1950 Feb p 44-47 [445]	radiation, 'big bang' theory, low-energy radiowaves, isotropy, neutral
pregnancy, epidemiology, stress, anoxia, Down's syndrome, trisomy 21,	abundance, 'big bang' theory and cosmic background radiation
etiology of Down's syndrome 1952 Feb p 60-66	primitive ants. Anguretus simoni Emery 1956 May p 64
progesterone, uterine muscle, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40-46 [163]	primitive ants, Aneuretus sumoni Emery 1956 May p of primitive architecture, building construction, architecture, climate, igloo,
inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] congenital anomalies, purpura, virus disease, vaccine, teratogenesis,	tagnag sport tant god hut adobe house hogan still hollse
congenital rubella, rubella 1966 July p 30–37	1960 Dec p 134-144
prejudice, hostility, insecurity, attitude survey 1950 Oct p 11-13	primity a mathematics, mathematics, geometry, topology, guinary system,
racial discrimination, American Negro, public opinion, attitude survey,	decimal system ressellation knots 1940 Dec P = "
US whites, segregation, integration, longitudinal attitude study	primardial dust aloud, chandrates, chandrale, solar system, shock Waves,
1978 June p 42-49 [707]	genesis of the solar system 1903 Oct p of the
unreal stereotypes 1954 Aug p 42	comet origins, cometary structure, exotic molecules, solar system, Comet Kohoutek 1974 Feb p 48-57
premature discoveries, artistic creations, scientific creations, uniqueness	alk de estarada matagatas planetisimal collisions solar system
of scientific discoveries 1972 Dec p 84-93 [1261] premature infants, retrolental fibroplasia, epidemiology, oxygen, infant	formation 1975 Jan p 24-33
mortality, blindness, 'blind babies' 1955 Dec p 40–44	t and the design materials solar system
alveoli, lung collapse, lecithin, breathing, surface tension, surfactant,	1975 Feb p 30 30
hyaline membrane disease, soaplike agents regulate surface tension	primordial fireball, galactic evolution, gravity, red shift, gravitational
in lungs 1962 Dec p 120–130	instability, nonuniformities, protogalaxies, origin of galaxies 1970 June p 26-35
blindness, neonatal disorder, medical ethics, medical researches,	printing, electronic typesetting, photographic typesetting, digital
retrolental fibroplasia, 'blind babies' 1977 June p 100-107 [1361] prenatal genetic diagnosis, amniocentesis, enzyme deficiency, genetic	
disease, hemophilia, Down's syndrome, Tay-Sachs disease,	applications 1909 May P of a
chromosomal anomalies 1971 Nov p 34–42 [1234]	Franciscony Francisco Index Light Fourier analysis, diffraction
prestressed concrete, building construction, architectural engineering,	grating Girard and interferometry 1900 July P
materials technology 1958 July p 25–31	private-enterprise sector, employment, pluralistic economy, public sector,
preventive medicine, medical care, People's Republic of China, primary	productivity, US economy, not-for-profit sector 1976 Dec p 25-29
care, 'barefoot doctors' 1974 Apr p 19-27	proceeding inhibition, learning forgetting, retroactive inhibition, recall,
prey-predator relationship, escape response, marine invertebrates, starfish, limpets, scallop, snail, chemical signals 1972 July p 92-100 [1254]	interference theory 1967 Oct p 117-124 [507]
price trends, input-output analysis, interchangeability of materials, cost	probabilistic potential theory, Brownian motion, potential theory,
assessment materials technology, metals, plastics, competition	harmonic functions 1969 Mar p 66-74
196/ Sept p 234-200	probability, law of large numbers, gambler's fallacy, random walk, mathematical proof, philosophy of science 1950 Oct p 44-47
Desiley phlogiston, oxygen, chemistry, life and work of Joseph Fliesley	comes theory uncertainty principle decision theory pure strategy,
1954 Oct p 00 15	card games illustrate theory 1951 Jan p 44-47
primary care, medical care, People's Republic of China, preventive	quality control statistical sampling, sequential analysis
medicine, barelong report, medical education, medical	1953 Mar p 29-33
	statistics, mathematical proof, fundamental reasoning, fundamental research, What is probability? 1953 Sept. p. 128-138
specialties, foreign incured graduates, 1973 Sept p 138–148	Monte Carlo method, Buffon needle problem, random numbers,
primate behavior, chimpanzee, social behavior, tool-using, comparative	mathematics 1955 May p. 90–90
psychology, observation of champanate 1962 May p. 128–138 [463]	galactic clusters, universe, gravitation, cosmology, Monte Carlo
armate societies, protocultural behavior,	method, distribution of galaxies as test of cosmologies
monkey, Japanese macaques, primate societies, p. Oct. p. 96–106 [1345]	psychology, decision making, subjective probability, Monte Carlo
social status 1964 Jan p 56	The second linear cubicctive and objective probability
smile primate biology, Yerkes Laboratones, chimpanzee 1955 Feb p 67-75	1957 Nov p 128–1,21
primate discosts	

games theory, human conflict, zero-sum game, military strategy, use and misuse of game theory 1962 Dec. p 108-118	prokar, otic cells, bacteria, blue-green algae, fossil cells, evolution, Gunflint cherts, origins of life, Precambrian rocks, oldest fossils
chance, odds, calculus of chances, causation, philosophy of science,	1971 May p 30–42 [395]
logician's point-of-view 1965 Oct. p 44-54	cell evolution, cell organelle, chloroplast, endosymbiosis, eukaryotic
antigravity, time reversal, CPT symmetry, antimatter, philosophy of	cells, mitochondria, symbiosis, algae, cilia, flagella, plastids 1971 Aug p 48–57 [1230]
science 1967 Jan p 98–108 Benford's Law, digits, number theory, first-digit distribution	prolactin, ACTH, hormone, sexual characteristics, growth, thyroid-
Beniord's Law, digits, humber theory, first-digit distribution 1969 Dec p 109–120	stimulating hormone, follicle stimulating hormone, androgens,
confirmation theory, hypothesis-testing, logic, inductive proof,	estrogens, secondary sexual characteristics, human physiology,
philosophy of science 1973 May p 75–83	endocrine system, chemical integrators of the body 1957 Mar p 76-88 [1122]
see also subjective probability	proline, collagen, hydroxyproline, collagen fibril, tropocollagen,
probability learning, evolution, intelligence, habit reversal, intelligence compared in five animals 1965 Jan p 92–100 [490]	connective tissue, nature and properties of most abundant protein
compared in five animals 1905 Jan p 92-100 [490] probability of death, life expectancy, historic changes in average length of	1961 May p 120–130
human life 1950 Apr p 58-60	propellant, combustion instability, rocket engine, resonant combustion,
probability, mathematics, combinatorial analysis, normal curve, Brownian	acoustic oscillation 1968 Dec. p. 94–103 properdin globulin, defense against infection 1954 Oct. p. 49
motion, Markov chain, Pascal's triangle, statistics, probability theory 1964 Sept p 92-108	property damage, atomic bomb, blast waves 1953 Apr p 94–102
problem box, animal behavior, intelligence test 1951 June p 64-68	proprietary hospitals, medical economics, medical care, public funds,
problem solving, curiosity, rhesus monkeys, genetic traits, animal	municipal hospitals, voluntary hospitals, metropolitan medical
behavior 1954 Feb p 70=75	economics in New York City 1965 Jan p 19–27
Gestalt psychology, insight, fixation, the 'aha' reaction	propulsion, heat, energy transformation, aerothermodynamics, laminar flow, turbulence, high temperatures propulsion
1963 Apr p 118–128 [476]	1954 Sept p 120–131
games theory, logic, computer theory, algorithms, Turing machine 1965 Nov p 98–106	aerospace technology, Coanda effect, fluid dynamics, aerodynamics,
two heads best 1953 Jan. p 38	nozzles, burners, nature and applications of Coanda effect
procaine, anesthesia, pain, cocaine, surgery, medical research,	1966 June p 84–92
neuropharmacology, pharmacology, psychiatry, research in pain	prospecting, chemical analysis, uranium ore, chemical prospecting 1957 July p 41-47
suppression 1957 Jan p 70-82 process control, chromatography, automatic control, control systems,	see also mineral prospecting and the like, aerial photography, natural
predictive control 1969 June p 112–120	resources, remote sensing
product safety, consumer-product research, consumer protection, energy	prostaglandin, fatty acids, feedback, hormone-like substances, drug
conservation, household appliances, product technology, N B S	therapy, nervous system 1971 Nov p 84–92 [1235]
product technology, consumer-product research, consumer protection,	synthesized 1968 July p 50 prostheses, pharmaceutical industry, F D.A , medical care, medical
energy conservation, household appliances, product safety, N B S	economics, drug prescription, drug research, medical laboratory
1977 Dec p 47-53	services 1973 Sept. p 161–166
production statistics, distribution of wealth, economic development,	protein coat, bacteriophage, genetics, reproduction, tracer experiments,
middle classes, population growth, natural resources, demographic transition 1976 July p 28-35	DNA 1953 May p 36–39 protein-cutting enzymes, catalytic proteins, enzyme action, proteolytic
production workers, labor force, productivity, service workers	enzymes, serum proteins, chymotrypsin, elastase, trypsin
1951 Sept. p 36-41	1974 July p 74–88 [1301]
productivity, labor force, production workers, service workers	protein evolution, cytochrome C, protein structure, respiration, amino- acid substitution, mutation rate, 1.2 billion year record of evolution.
1951 Sept. p 36-41 capital-output ratio, labor force, automatic control, economic and	ancient protein 1972 Apr p 58–72 [1245]
social impact of automatic control 1952 Sept. p 150–160	protein folding, lysozyme, X-ray crystallography, enzyme-substrate
mechanization, capital cost, labor cost 1955 July p 33-35	complex, amino-acid sequence, three-dimensional structure and
employment, pluralistic economy, public sector, private-enterprise sector, U S economy, not-for-profit sector 1976 Dec p 25-29	action of lysozyme 1966 Nov p 78–90 [1055] protein from coal, nutrient for microorganisms 1965 Nov p 52
sector, US economy, not-for-profit sector 1976 Dec p 25-29 professional organizations, elections to National Academy and American	protein molecule, blood plasma, collagen, cell surface antigens,
Philosophical Society 1948 July p 31	glycoproteins, interferon 1974 May p 78-86 [1295]
progenitive family, developed countries, human population, demographic	protein 'overcoat', virus structure, DNA 1954 Dec p 62–70 [32]
transition 1974 Sept. p 122–132 progesterone, fertilization, parthenogenesis, hyaluronidase, zona	virus, tobacco mosaic virus, nucleic acid 'core', dissociation and reconstitution of infective particles 1956 June p 42-47
pellucida 1951 Mar p 44-47	protein production, petroleum-eating microorganisms protein source(?)
pregnancy, uterine muscle, hormone, menstrual cycle, hormone	1965 Jan n 49
inhibition of uterine muscle contraction 1958 Apr p 40-46 [163]	protein separation, electrophoresis, Schlieren scanning, moving-boundary
adrenal gland, pineal organ, biological clock, estrogens, melatonin, serotonin, pineal regulation of sex glands 1965 July p 50-60 [1015]	electrophoresis 1951 Dec p 45-53 protein shape-change, enzyme action, lock-and-key theory, molecular
programmed instruction, computer technology, education, teaching	structure, protein structure 1973 Oct p 52-64 [1280]
machine, individualized teaching 1966 Sept. p. 206–220 [533]	protein structure, protein synthesis, amino-acid sequence, pentide bond
Project Cirrus, weather control, cloud seeding, silver iodide, condensation nuclei, dry ice 1952 Jan. p 17–21	hydrogen bonds, tertiary structure, nature, diversity and function of proteins
project grants, NSF, 'mission-oriented' funding agencies, science	proteins 1950 June p 32–41 [10] chemistry, chemical bond, molecular structure, crystal structure,
funding, institutional grants, science policy, fundamental research,	chemical Linetics, science, chemistry 1900-1950 1950 Sept. p. 32-35
university science, problems in government support of science in the	insulin, amino-acid sequence, first total sequence 1955 May n. 36, 41
Project Tinkertoy, automatic manufacture, electronic equipment,	insulin, ribonuclease, amino-acid sequence, enzyme action, myoglobin, resolution of atomic structure of three molecules
modular design 1955 Aug n 29-33	1961 Feb p 81_92 (80)
projectile, meteorites, cratering, impact crater, fluid impact, effect of	amino-acid sequence, gene-protein colinearity. DNA structure
projecting geometry, Renaissance paintings, Leonardo, Durer, Desargue's	mutation, gene mapping, base 1967 May p. 80, 04 (1074)
theorem, Pascal's theorem, mathematics, projective geometry as	keratin, X-ray diffraction, alpha keratin, feather keratin
systematized by Poncelet and Klein 1955 Jan p 80–86 prokaryote origin, chloroplast, mitochondria, symbiosis, cell organelle	cytochrome C, protein evolution, respiration, amino-acid substitution,
Franklyon Offen, Chioropiast mitochondria ei mbioese pall accordia	mutation and 101 th

prokaryote origin, chloroplast, mutochondria, symbiosis, cell organelle,

DNA, protein synthesis plastids, cell evolution, extra nuclear

1970 Nov p 22-29 [1203]

genetic activity in cell

1972 Apr p 58-72 [1245]

mutation rate, 12 billion year record of evolution, ancient protein

shape-change 1973 Oct p. 52-61 1129	collagen, beta chain, alpha helix, polypeptide synthesis, polymers,
1715 Oct p 52-04 (120	Ulling 30100 Contract and architecture = 6
and an army p	40 1957 Sept in 173184 (7)
protein switch, actin, muscle contraction, muscle fibril, tropomyosin,	amino acids, myoglobin, X-ray crystallography, alpha helix, 3-D
troponin, myosin, calicum in muscle 1975 Nov. p. 36-45 (132)	structure of profess molecule 1961 Dec. n. 96-11 [171]
troponin, myosin, calicum in muscle 1975 Nov. p 36-45 [132 protein synthesis, protein structure, amino-acid sequence, peptide bond,	isheries, aquaculture, food, tilapia, pond culture 1963 May p. 143-152
hydrogen bonds, tertiary structure, nature, diversity and function of	peptide bond, zymogen, trypsin, proteolytic enzymes, hydrolysis
proteins 1950 June p 32-41 [1	f enzymes, structure and function of protein-digesting enzymes
heredity, chromosome, DNA, RNA, nucleoproteins, DNA identified	
agent of heredity 1953 Feb p 47-57 [2]	or the state of th
bacteria, genetic code, DNA, RNA, protein synthesis by bacterial	
DNA-RNA in vitro 1956 Mar p 42-4	evolution, species specificity, computer analysis, cytochrome, amino-
DNA, RNA, genetic code, chromosome, polymers, molecular genetics	, fail and and an and an and an
as of mud-1957 1957 Sept. p. 188-200 [5-	1969 July p 86-95 [1148] grain, plant protein, plant hybrids, agronomy, Triticale
microsome, ribosome, RNA, cytology, recognition of ribosome as site	1974 Aug p 72-80
of protein synthesis 1958 Mar p 118-124 [52	2] agglutination response, cancer, cell membrane, immunology, lecturs
RNA, DNA, recognition of RNA as transcriber of DNA	1977 June p 108–119 [1360]
1959 Dec p 55-6	
antibodies, antigens, immunology, immune response, mutation,	proteolysis, bacteria, infection, viral DNA, DNA sequence, restriction
selection theory of immunity 1961 Jan p 58-67 [78	enzymes, bacterial recognition and rejection of exotic DNA
ribosome, DNA, mRNA, tRNA, nucleus, chromosome, cytology, how	1970 Jan p 88-102 [1167]
cells make molecules 1961 Sept p 74-82 [92	
mRNA, gene transcription, the RNA messenger from gene to protein	hydrolysis, enzymes, structure and function of protein-digesting
synthesis 1962 Feb p 41–49 [119	
DNA, genetic code, base triplets, nucleotide sequence, codon, base	catalytic proteins, enzyme action, protein-cutting enzymes, serum
triplet established as codon 1962 Oct p 66-74 [123 mRNA, tRNA, genetic code, DNA, ribosome, genetic code elucidated,	
amino acid 'dictionary' 1963 Mar p 80-94 [153]	protocultural behavior, primate behavior, monkey, Japanese macaques, primate societies, social status 1976 Oct p 96-106 [1345]
DNA, polyribosomes, RNA, ribosome 1963 Dec p 44-53	
genetic code, tobacco mosaic virus, RNA nucleotides, amino-acid	instability, primordial fireball, nonuniformities, origin of galaxies
sequence, mutation, relation of RNA mutations to amino acid	1970 June p 26-35
changes 1964 Oct p 46-54 [193]	
enzymes, hemoglobin, myoglobin, control systems, feedback,	positron, mesons, photon, neutrino, particle accelerator, nuclear
cooperative enzymes, allosteric enzymes, control of biochemical	binding force, 'Meson Song' 1948 June p 26–39
reactions 1965 Apr p 36-45 [1008]	electromagnetic force, nuclear forces, neutron, mesons, particle
antibiotics, streptomycin, genetic code, ribosome, DNA, RNA,	scattering, high-energy physics, fundamental research, what holds the nucleus together? 1953 Sept. p. 58-63
mutation, 'misreadings' induced by antibiotic alterations of	the nucleus together? 1953 Sept p 58-65 photographic emulsion, particle tracks, cosmic radiation, neutron,
ribosomes 1966 Apr p 102–109	electron, characteristic 'signatures' of particles 1956 May p 40-47
amino acids, DNA, genetic code, mutation, molecular biology, triplets,	antiproton, positron, Bevatron, antimatter, high-energy physics,
RNA, anticodon, ribosomes, triplets, wobble hypothesis 1966 Oct p 55-62 [1052]	postulation and discovery of antiproton 1956 June p 37-41 [244]
brain metabolism, memory, goldfish, learning, conditioned behavior	atomic nucleus, shell model, optical model, high-energy physics, liquid-
1967 June p 115–122 [1077]	drop model, charge exchange, spin-orbit force, resonance 'particles',
amino acids, formylmethionine, ribosome, mRNA, tRNA, initiation of	neutron, structure of the nucleus 1959 Jan p 75-82
protein synthesis 1968 Jan p 36–42 [1092]	atoms, elementary particles, electron, neutron, matter, structure of
insulin, automatic synthesis, amino acids, peptide bond, 'solid phase'	'ordinary matter' 1967 May p 126-134 mesons, particle accelerator, pions, quark, high energy physics.
method of synthesis, polystyrene beads 1968 Mar p 56-74 [320]	nucleons, Regge trajectory, high-energy scattering
rod cells, cone cells, visual cells, autoradiography, renewal mechanisms	1967 Dec p 76-91
chloroplast, mtochondria, symbiosis, cell organelle, DNA, prokaryote	alpha clustering, alpha particles, atomic nucleus, elementary particles,
origin, plastids, cell evolution, extra-nuclear genetic activity in cell	nuclear clustering, neutron, nuclear forces, nuclear surface
[970 Nov p 22-29 [1203]	1972 Oct p 100-108
antibiotics actinomycin DNA-actinomycin binding, mRNA inhibition	antimatter, high-energy physics, colliding-beam accelerator, electron
19/4 Aug D 82-31 [1303]	positron annihilation, parton model, quantum electrodynamics 1973 Oct p 104-113
DNA, genetic code, poliomyelitis virus, RNA, virus multiplication,	not elementary 1951 May p 32
1973 Way D 24-31	proton acceleration, by electron rings 1968 Sept p 84
cell receptors, endocrine hormones, gene regulation, hormonal action,	proton accelerator, CERN-USSR joint project 1968 Sept p 84
steroid hormones 1976 Feb p 32-45 [1534] cell structure, neutron-beam-scattering technique, nbosome, structure	proton beam, particle accelerator, National Accelerator Laboratory
	neutrino beam, synchrotron 1974 Feb p 72-83
molecular structure, 3-D structure of them	proton-beam focusing, electromagnetism, niobium alloys magnetism, superconductors, generation of intense magnetic fields
1,7,00	1967 Mar p 114–123
sRNA and amino acid template positioning 1962 Sept p 108 1963 July p 66	proton currents, in nerve cells 1951 July p 31
	proton decay, transmutation 1970 Dec p 40
origins of life, thermal theory of biological and 1965 Aug p 44	proton magnetic moment, determined with new precision
solid-phase synthesis 1966 Sept p 102	1949 May p 26 proton model, high-energy physics, neutron structure, quark, scattering
initiation formylmethionine 1968 Sept p 86 ribosome 30S subunit	experiments, 'strong' force, virtual particles 1971 June p 60-77
ribosome 30S subunit ribosome, cell organelle, RNA, structure of the ribosome 1969 Oct p 28 [1157]	proton-proton interaction, thermonuclear reaction, carbon cycle, stellar
1909 UCI P 20 [1137]	energy 1950 Jan p 42–45
proteins, amino acids, peptide chain, alpha helix, enzyme catalysis, lock- proteins, amino acids, peptide chain, alpha helix, enzyme catalysis, lock- 1953 Sept p 100-106	heat, thermonuclear reaction, stellar interiors, hydrogen bomb, solar
and-key theory, how is a protein made? 1953 Sept p 100-100	corona, helium reaction, ultrahigh temperatures 1954 Sept p 144-154
and-key theory, how is a protein made polypeptide chain, amino acids, hydrogen bonds, X-ray crystallography, alpha helix 1954 July p 51-59 [31]	colliding beam accelerator, high energy physics, particle interaction,
crystanography, aipma non-	CERN 1973 Nov p 36-44

proton size, findings in particle accelerators	1973 May p 42	schizophrenia, psychotherapy, shock therapy, psychosurgery, the ca
proton spin, spin, high-energy physics, 'strong' for	orce, electron scattering,	for psychotherapy 1953 Jan p 58–63 [
Janes demanded forces on soun	1966 July p 68-78	suicide, epidemiology 1954 Nov p 88
dependence of nuclear forces on spin		LSD, ergot, psychosis, experimental psychoses 1955 June p 34
time reversal, symmetry, parity, charge conser	vation, lambda decay,	LSD, eight, psychosis, experimental psychoses 1999 since p 54
CPT conservation, experiments in time reve	ersal 1969 Oct p 88-101	humor, psychiatry, laughter, psychosis, Freudian interpretation of
proton structure, probed by electrons	1953 Oct p 50	humor 1956 Feb p 31–35 [
proton synchrotron, USSR. 10Bev synchrotron	1957 June p 72	child psychiatry, autism, schizophrenia, emotional deprivation,
CER.N. USSR., US plans	1970 Aug p 44	'mechanical boy' 1959 Mar p 116-127 [4
CERN, Oas R., Os pians		'truth' drugs, psychoactive drugs, psychiatry, emotional illness, clim
proton transfer, chemical reaction, chemical kin-	eucs, anosteric enzymes,	
enzymes, catalysis, chemical equilibrium, re	elaxation methods in	
chemistry	1969 May p 30–41	schizophrenia, emotional illness, psychiatry, psychosis, neurosis,
protoplasts, bacterial-cell wall, lysozyme, homeo	ostasis, bacterial	double bind, taxonomy of emotional illness, family therapy
cytoplasm, bacteriophage, flagella, dissection	on of bacteria by	1962 Aug p 65–74 [4
	1960 June p 132-142	community mental-health centers, mental health, emotional illness,
lysozyme		psychiatric hospital population, psychoactive drugs, psychotherap
'protopsychology', planarian, learning, condition	ned benavior, maze	
running, evidence of learning in a primitive	e nervous system	psychiatry 1973 Sept p 116-
	1963 Feb p 54-62	psychological research, S6 million at Yale 1953 Apr p
protostars, light polarization, interstellar dust, i	nterstellar gas	psychological testing, psychology, perception, science, psychology 1900
processing, again postar and any arrangement of	1967 Oct p 106-114	1950 Sept p 79
microwaves, interstellar matter, maser, hydro		scientists, socioeconomic background, social psychology, psychologi
	1060 Dec = 26 44	study of 64 eminent scientists 1952 Nov p 21
astronomy, energy levels, interferometry	1968 Dec p 36-44	
protozoon, cell differentiation, regeneration, em	ibryonic development,	creativity, psychology, imagination, psychology of imagination
protozoon as model for embryological stud	ly 1953 Mar p 76–82	1958 Sept p 150-
provirus, virus, life cycle, reproduction, bacterio	ophage	achievement, motivation, aspiration, social surveys, self-anchoring
[1954 Mar p 34-37	scale 1963 Feb p 41
hostomanhara anadama manamhanant DMA		see also intelligence test
bacteriophage, virology, recombinant DNA,	1055 4 02 09 (24)	psychology, psychological testing, perception, science, psychology 1900
	1955 Apr p 92–98 [24]	
bacteriophage structure, gene expression, late	ent viruses, virus action,	1950 Sept p 79
coexisting viruses, viral genes in host chroi	mosome	instrument panel, pilot error, ergonomics, designing instrument pane
	976 Dec p 102-113 [1347]	for their users 1953 Apr p 74-82 [4
pseudoscience, university research, ESP, kirlian		conditioned reflex, neurosis, operant conditioning, Pavlov,
Iowa State	1978 Apr p 78	thyroidectomy, stress, emotional behavior, neurosis, conditioned
	• •	
psi particle, antimatter, electron-positron anni-		reflex is shown to be a neurosis 1954 Jan p 48–57 [4
color, quark, high-energy physics, storage		economics, economic psychology 1954 Oct p 31–35 [4
	1975 June p 50–62	learning, spatial perception, innate behavior, perceptual learning,
psychiatric hospital population, community men	ntal-health centers, mental	innate vs acquired space perception 1956 July p 71
health, emotional illness, psychoactive dri		probability, decision making, subjective probability, Monte Carlo
psychiatry, psychoanalysis	1973 Sept. p 116-127	fallacy, gambling, subjective and objective probability
psychiatry, motion pictures, psychiatric films in		1957 Nov p 128–138 [4
populary, motion pictures, psycinatric initis in	1949 Sept p 42-43	
near that a 111 a		creativity, imagination, psychological testing, psychology of
group psychotherapy, emotional illness	1950 Dec p 42-45 [449]	imagination 1958 Sept p 150-
psychoanalysis, humor, laughter, psychosis,		pain, perception, neuropsychology, cultural influence on pain
humor	1956 Feb p 31-35 [435]	perception 1961 Feb p 41-49 [4
ACTH, war, stress, combat fatigue, Korean	war studies of battlestress	auditory illusions, hearing, perception, phonetics, speech perception
	1956 Mar p 31-35	illusions, illusions as clues to organization of perceptual apparatus
anesthesia, pain, cocaine, procaine, surgery,		1970 Dec p 30-33 [5
neuropharmacology, pharmacology, resea		art, Escher's prints, optical illusion, perception of pictures, visual
morophia macology, pharmacology, resca		
femority days and the state of	1957 Jan p 70–82	perception 1974 July p 90–104 [5
'truth' drugs, psychoanalysis, psychoactive o		sports, footracing, human physiology, athletics, metabolism, running
clinical use of psychoactive drugs	1960 Mar p 145~154 [497]	records, Aesop principle 1976 June p 109-
schizophrenia, emotional illness, psychoana	lysis, psychosis, neurosis,	learning, effect of delayed video feedback on maze solving
double bind, taxonomy of emotional illne	ss, family therapy	1961 Jan p
	1962 Aug p 65-74 [468]	rationalizing the threat of thermonuclear horror 1963 Feb p
community mental health centers, mental h	ealth, emotional iliness.	see also behavioral psychology and the like, ethology, learning,
psychiatric hospital population, psychoac		perception and the like
psychoanalysis	1973 Sept p 116–127	
poorly funded	1952 Nov p 40	psychopathology, psychoanalysis, murder, 'prevention of murder'
	1932 NOV p 40	1949 June p 50
manpower shortage	1957 May p 70	psychophysics, learning, visual perception, Fechner's law, Skinner box,
clinical trials of Marsilid	1958 Apr p 52	behavioral psychology, conditioned behavior, pigeon perception
civil rights in New York law	1964 June p 54	1961 July n 113-122 [4
psychoactive drugs, anthropology, medicine, r	nagic, alkaloids, hypnosis	muscle control, muscle spindles, sensory feedback, servomechanisms
psychiatry, lessons from primitive medical	ine 1948 Sept p 24-27	stretch reflex, tendon organ 1972 May p 30-37 [12
tranquilizers, chlorpromazine, reservine, Fr	enquel 1955 Oct p 80-86	psychosis, Hutterites, mental health, standard expectancy method,
'truth' drugs, psychoanalysis, psychiatry, er	notional illness, clinical use	epidemiology 1953 Dec. p. 31–37 M
of psychoactive drugs	1960 Mar p 145–154 [497]	epidemiology 1953 Dec p 31–37 [4
community mental-health centers, mental h	realth emotional illness	emotional illness, mental health, schizophrema, epidemiology, family
psychiatric hospital population, psychoti	harany nei chiates	income status 1954 Mar p 38-42 [4
psychoanalysis		LSD, ergot, psychoanalysis, experimental psychoses
emotional illness server	1973 Sept p 116-127	1955 Tune p. 24
emotional illness, community mental-healt	n centers, skid row, drug	psychoanalysis, humor, psychiatry, laughter, Freudian interpretation
addiction, 'deinstitutionalization' of the		numor 1956 Feb = 21 25 14
DSI choomata a const	1978 Feb p 46-53 [581]	semeophiema, emotional illness, nsichoanalisis, neuchiatri, manage
psychoanalysis, Oedipus complex, emotional	illness 1949 Jan p 22-27	double bind, taxonomy of emotional illness, family therapy
dreams, Freud	1949 May n 44 47 (405)	or emotional filliess, family therapy
murder, psychopathology, 'prevention of n	nurder' 1949 Iune n 50-55	alkaloids hallicinogens mental houlth described Aug p 65-74 [4
Freud, biography and appraisal of Sigmun	d Freud at 82	alkaloids, hallucinogens, mental health, drug addiction, consciousnes
	1949 Oct. p 50-54	anciation, LSD, psilocyoin, mescaline, effects of LSD
schizophrenia, art, a case study	1952 Apr p 30–34	1964 Apr p 29-37 [4
	***** h ?\-34	

psychosomatic illness, stress, alarm reaction, kidney disorder,	desegregation, racularitantes and the second
cardiovascular disease, adrenal gland 1949 Mar p 20–23	desegregation, racial integration, attitude survey, U.S. whites,
stress, theer, executive monkey experiment 1058 Oct p. 05 to	30 reported in 1956
an dety, polygraph, lying, guill, breathing, bulse rate, slan temperature	
ne detector mis-named 1967 fan n 25 31 (50	
coping behavior, rats, stress 1972 June p 104-113 [54	American Negro, 'riffalf theory' versus 'blocked opportunity'
psychosurgery, prefrontal lobotomy, after 5,000 operations in the US, a	7] INCORY 1968 Aug n 15 21 (620)
evaluation 1050 E.B. = 44 47 44	vietnam war, 'silent majority' 1970 June n 17-25 (656)
	desegregation, racial integration. American Negro 11 S, whites
schizophrenia, psychotherapy, psychoanalysis, shock therapy, the case	allilide survey longitudinal attitudas and.
for psychotherapy 1953 Jan p 58-63 [44]	
outlawed in USSR 1953 Oct. p. 6	
psychotherapy, neurosis, learning, stress, experimental neuroses in cats	steering systems, paradox mescapable
1950 Mar p 38-43 [443	1976 June p 21–27 [689]
'chent-centered' therapy 1952 Nov p 66-74 [448	projection in the state of the
schizophrenia, psychoanalysis, shock therapy, psychosurgery, the case	- Barren, megration, tongitudinal attitude study
for psychotherapy 1953 Ian p. 58-63 IAA7	1978 June p 42-49 [707]
community mental-health centers, mental health, emotional illness,	public sector, employment, pluralistic economy, private enterprise sector,
psychiatric hospital population, psychoactive drugs, psychiatry,	productivity. U.S. economy, not-for-profit sector
psychoanalysis 1973 Sept p 116-12	1976 Dec. n. 25-29
training to overcome shortage 1949 Jan p 28	public transportation, see mass transit
for recidivists 1951 Apr p 38	
in groups 1952 Mar p 42	
Ptolemaic system, astronomy, Greek astronomy 1949 Apr p 44-47	
Ptolemy, as fraud 1977 Oct p 75	The state of the s
puberty, see adolescence	
public funds, medical aconomics, medical aconomics and lead aconomics	Puerto Ricans, racial discrimination, segregation, American Negro,
public funds, medical economics, medical care, municipal hospitals,	housing, poverty 1965 Aug p 12–19 [626]
voluntary hospitals, proprietary hospitals, metropolitan medical	Pugwash conference, disarmament, nuclear test ban 1957 Sept p 106
economics in New York City 1965 Jan p 19-27	nuclear warfare 1958 Dec p 52
public health, tuberculosis, tubercle bacillus, mortality rates, economic	talks continue as testing resumes 1961 Nov p 78
development, science history, popularization of well-being, not	pulmonary ventilation, gas exchange, thorax, lung, breathing, alveoli,
therapy, ends 'white plague' 1949 Oct p 30-41	human physiology, vital capacity, mechanics and physiology of
epidemiology, immunology, virology, influenza virus, structure and	breathing, anatomy of lung 1966 Feb p 56-68 [1034]
biochemistry of flu virus 1957 Feb p 37-43	pulsar, white dwarfs, neutron stars, gravitational collapse, angular
environmental pollution, ionizing radiation, fallout, atomic bomb test,	momentum, 'lighthouse' model proposed 1968 Oct p 25-35
radiation damage, mutation, hazards of radiation to society	Crab Nebula, neutron stars, radio source, stellar evolution,
1959 Sept p 219–232 [1214]	
Chaga's disease, 'zoonoses', parasitism, trypanosomiasis, malaria,	gravitational collapse, neutron stars, stellar evolution, solid stars, white
filariasis, leishmaniasis, plague, yellow fever, typhus, epidemiology,	dwarfs, ultradense matter 1971 Feb p 24-31
animal infection and human disease 1960 May p 161-170	cosmic radiation, radio emissions, superdense matter, supernovae
bronchitis, air pollution, emphysema, smog, environmental health, US	1971 July p 74-85
cities, smog and public health 1961 Oct p 49-57 [612]	black hole, gravitational waves, neutron stars, relativity theory, Red
epidemiology, human behavior, bubonic plague, Black Death,	Giant stars, rotational energy, white dwarfs 1972 May p 38-46
population history, long-term effects of plague, Europe 1348-50	binary stars, neutron stars, black hole, quasars, X-ray astronomy, X-
1964 Feb p 114-121 [619]	ray sources 1972 July p 26–37
morbidity, medical care, health statistics, mortality rates, health	black hole, gravitational energy, quasars, rotational energy, radiation in
insurance, U.S. National Health Survey 1966 June p 21-29	universe 1973 Feb p 98-105
noise-induced hearing loss, occupational health, noise pollution,	black hole, interstellar gas, magnetohydrodynamics, neutron stars,
auditory impairment, industrial hygiene, preventing noise-induced	stellar evolution supernovae, X-ray sources 1975 Dec p 38-46
hearing loss, US noise pollution legislation	black hole, cosmic radiation, gamma-ray astronomy, neutron stars,
1966 Dec p 66-76 [306]	satellite astronomy, Cygnus X-1 1976 Oct p 66-79A
abortion, population, birth control, infant mortality, maternal	review of early observations 1968 June p 43
mortality, international comparison of experience with legalization	light source tentatively identified 1968 July p 49
of abortion 1977 Jan p 21–27 [1348]	rotating neutron star (?) 1968 Dec p 50
environmental pollution, fission reactor, nuclear power, radioactive	NP 0532, optical flashes in Crab Nebula 1969 Mar p 46
waste disposal, underground storage 1977 June p 21-31 [364]	speedup, starquake 1970 Feb p 44
	pulsar in Crab Nebula, supernova remnant 1969 Jan p 46
illipioved	X-ray and optical pulses 1969 July p 52
	pulse-code modulation, artificial satellite communication,
Builley appointed dailyour Carretain	telecommunication, data transmission, digital transmission
	1966 Sept p 144-156
THE CONFERENCE OF THE STATE OF	communication technology, digital transmission, binary arithmetic
public opinion, election-fiasco 1948 1948 Dec p 7-11	television, transmission quality, telephone, AM, FM
	1968 Mar p 102-108
and an of attitudes and morale of U.S. Iroops during world war 11,	communication technology, laser, electron optics, Kerr effect, Pockel's
including experiments in racial integration of military units 1949 May p 11-15	effect, polarization, modulators, modulation of laser light
1747 1/147 1/ 11 12	1968 June p 17-23
voters' attitudes, voting behavior, correlation analysis, ethnic groups,	digital transmission, diode laser, fiber optics, glass fiber cables, light-
conclusion tamily, voies in the maring	emitting diode, light-wave communication, lightwave telephone
******	1977 Aug. p. 40-48 [373]
mass communications, elections, attitude survey 1953 May p 46-48	pulse generator, streamer chamber, linear accelerator, track detectors
	new particle detector 1967 Oct p 38-46
	pulse rate, anxiety, polygraph, lying, psychosomatic illness, guilt,
fluoridation, anti-scientific attitudes, voting behavior 1955 Feb p 35-39 [453]	breathing, skin temperature, he detector mis named
fluoridation, anti-scientific attitudes, voling 1955 Feb p 35–39 [453]	1967 Jan p 25–31 [503]
American Negro, US whites, desegregation, attitude survey, racial	pumpkin prodigy, 1,986 ft vine, 20 pumpkins 1952 July p 42
segregation, sociology, longitudinal attitude study	• • •

pupa, insect metamorphosis, juvenile hormone, larvae, demonstration of hormonal control in silkworm moth 1950 Apr. p. 24-28	1952 Mar. p. 47-54 [205] matter, wave-particle duality, energy levels, electromagnetic force,
pupil size, emotion, attitude, eye, attention, effect of attitude on pupil size	nuclear forces, gravitation, field theory, fundamental research,
1965 Apr. p. 46-54 [493] communication, eye, nonverbal communication, effect of pupil size on	corpuscular streams, what is matter? 1953 Sept. p. 52–57 [241] optical pumping, microwave spectroscopy, spectroscopy, photon,
attitude 1975 Nov. p. 110–119 [567]	technique and uses of optical pumping 1960 Oct. p. 72–80
pure metals, metallurgy, crystal structure, zone melting, vacuum furnace	quantum mechanics, special relativity, atomic structure, high-energy
1954 July p. 36-40	physics, science, physics 1900-1950 1950 Sept. p. 28-31 Planck, science history, spectroscopy, black body, resonators, Einstein,
pure strategy, games theory, uncertainty principle, decision theory, probability, card games illustrate theory 1951 Jan. p. 44-47	photoelectric effect, Compton effect, quantum jumps
games theory, decision theory, minimax, mixed stratgey, worst-case	1952 Mar. p. 47–54 [205]
analysis 1955 Feb. p. 78–83	heat, thermodynamics, entropy, equation of state, energy, black body
Purex process, fission reactor, nuclear fuel, nuclear power, reprocessing	radiation, temperature, What is heat? 1954 Sept. p. 58-63 superfluidity, helium 1, helium 2, seond sound, low-temperature
1976 Dec. p. 30-41 Purkinje cells, brain, brain circuitry, cerebellar cortex, neuronal	physics, liquid helium properties 1958 June p. 30–35 [224]
networks, mossy fibers 1975 Jan. p. 56–71 [1312]	maser, microwave amplification, stimulated emission, coherent
purple bacteria, phototropism, photosynthesis, sulfur bacteria	radiation, principles and uses of maser 1958 Dec. p. 42–50 [215]
1951 Nov. p. 68-72 purpoises, fish, swimming, laminar flow, turbulence, how fishes and sea-	atom, Pauli, exclusion principle, theoretical physics, antimatter, structure of atoms and nuclei 1959 July p. 74-86 [264]
going mammals swim 1957 Aug. p. 48–54 [1113]	gravitation, wave-particle duality, relativity theory, space-time
purpura, congenital anomalies, virus disease, vaccine, teratogenesis,	continuum, uncertainty principle, P.A.M. Dirac view of physics
pregnancy, congenital rubella, rubella 1966 July p. 30-37 Pygmies, Congo, social anthropology, Bambuti, symbyotic relationship of	1963 May p. 45-53 chemical bond, noble gases, compounds of 'inert elements'
jungle Pygmies and pastoral-village peoples	1964 May p. 66–77
1963 Jan. p. 28-37 [615]	superfluidity helium, vortex ring, macroscopic quantum effects,
pyrogenesis, aromatic hydrocarbons, molecular structure, polycyclic aromatic compunds 1976 Mar. p. 34-45	quantized vortex rings 1964 Dec. p. 116–122 superconductors, Meissner effect, magnetic field, magnetic
pyrolysis, fire, fire protection, 'flashover', flammability standards	impermeability, quantized vortexes, quantum effects in
1974 July p. 21–27	superconductors 1965 Oct. p. 57–67
pyrophoricity, flammable metals 1957 Mar. p. 64 pyruvic acid, see: citric-acid cycle	electric current, Josephson effects, superconductivity, microwave emission, tunnel junction, confirmation and applications of
Pythagorean doctrine, musical scale, tone ladder, music and mathematics,	Josephson effects 1966 May p. 30–39
harmonic proportions, Kepler, vibrating string 1967 Dec. p. 92-103	electrical conductivity, Fermi surface, semiconductor, materials
Pythagorean theorem, time, special relativity, clock paradox 1963 Feb. p. 134-144	technology, charge carriers, electron mean free path, electrical properties of materials 1967 Sept. p. 194–204
1,700 years before Euclid 1950 Mar. p. 28	atomic nucleus, atomic structure, exotic atoms, kaonic atoms, muonic
	atoms, particle accelerator, pions, high-energy physics
	1972 Nov. p. 102-110 crystal energetics, crystal structure, metallurgy, conduction electrons,
O	quasi-particle concept, Fermi surface, metal properties
	1973 Jan. p. 88–98
quackery, 'radioactive' nostrums 1949 Oct. p. 27 quality control, statistical sampling, sequential analysis, probability	Kerr gate, laser mode-locking, molecular motion, Raman clock, ultrafast phenomena, picosecond molecular processes
1953 Mar. p. 29-33	1973 June p. 42–60
quantized vortexes, superconductors, Meissner effect, quantum	hadrons, heavy leptons, J particle, high-energy physics, quark
mechanics, magnetic field, magnetic impermeability, quantum effects in superconductors 1965 Oct. p. 57–67	hypothesis, intermediate vector bosons 1976 Jan. p. 44-54 electromagnetic radiation, photon, Coulomb's law, mass of photon
quantum, elementary particles, parity, 'weak' force, symmetry, particle	1976 May p. 86–96
interaction, right and left-handed particles breakdown of parity	electromagnetic radiation, electron-hole liquid, exciton, semiconductor
1957 Apr. p. 45–53 [231] quantum chemistry, molecular structure, electron shells, computer	1976 June p. 28–37 black hole, gravitational fields, relativity theory, event horizon
modeling, molecular orbits, computer graphics 1970 Apr. p. 54-70	1977 Jan. p. 34-40 [349]
quantum effects, superconductivity, magnetism, magnetic vortexes, superconductors, macroscopic quantum effect photographed	isotope separation, laser-excitation technique, light absorption,
1971 Mar. p. 74–84	uranium enrichment 1977 Feb. p. 86–98 [354] amorphous semiconductors, nonperiodic systems, Ovshinsky devices,
superfluidity, helium 3, liquid phase, gas phase, solid state physics,	semiconductor technology, switching phenomena
quantum fluids, phase transitions 1976 Dec. p. 56-71 quantum electrodynamics, radar, microwaves, spectroscopy, molecular	1977 May n. 36-48 (363)
bonds, coherent radiation, resonance absorption, energy levels,	alkali-metal anions, alkali-metal cations, cryptands, electron orbitals,
	solvated electrons
quantum jumps, time-keeping, foundation of maser, laser technology	solvated electrons 1977 July n 02 105 (260)
quantum jumps, time-keeping, foundation of maser, laser technology	charmed quarks, hadrons, high-energy physics, quark, charm
quantum jumps, time-keeping, foundation of maser, laser technology 1948 Sept. p. 16-23 positronium, positron, electron, 'model atom' 1954 Dec. p. 88-92 antimatter, high-energy physics, colliding-beam accelerator, electron-	charmed quarks, hadrons, high-energy physics, quark, charm 1977 Oct. p. 56–70 [388] maser, cosmic masers, hydroxyl maser, water maser, maser char
quantum jumps, time-keeping, foundation of maser, laser technology	charmed quarks, hadrons, high-energy physics, quark, charm

quantum numbers, baryons, high-energy physics	s, hadrons, leptons.	Ottoobus Indiana beause for the state of
mesons, quark continement, bag model, in	frared-slavery model	Quechua Indians, brown fat, altitude adaptation, acclimatization, deer
string model	1076 Nov 40 C	mice, hemoglobin, metabohe rate, exercise, human physiology at high altitude
quantum solid, crystal structure, helium, solid st	Ale physics wearnous	
motion, solid helium, physical and theoreti	cal properties	queen substance, pheromones, insect physiology, sexual behavior,
	1967 Aug - 94 04	muskone, social behavior, ants, Gypsy moths, nuce
quark, mesons, particle accelerator, pions, proto	in high-energy shares	1903 May p 100-114 [15/]
nucleons. Regge trajectory, high-energy sca	ittering	sexual development 1956 Apr p 66
	1967 Dec n 76 gr	queues, traffic, mathematics, operations research, computer time sharing
high-energy physics, proton model, neutron si	flicture scattering	
experiments, 'strong' force, virtual particles	1971 June n 60 77	quick clay, clay, landslide, formation and properties of quick clay
dual-resonance model, high-energy physics, hi	adrons light-stone	1303 1404 p 132-142
invory, strong interactions	1975 Feb 5 61 67	quicksand, fluidized sand, alkali bog 1953 June p 97-102
antimatter, electron-positron annihilation, I p	article nei narticle	and an anti-
charm, color, high-energy physics, storage r	inge vermal particle,	tessellation, knots, primitive mathematics 1948 Dec p 44-49
g g projecto, atomage .	1975 June p 50-62	quinine, alkaloids, plant physiology, morphine, strychnine, 'hemlock',
charmed quarks, hadrons, high-energy physics	mantum mechanics	i b comment and a control booking, both in the control between the control by the
charm	1977 Oct p 56-70 [388]	toxins in plant physiology 1959 July p 113-121 [1087]
high-energy physics, 'S U (3)' extended by 'S	11 (6) 1965 Mag = 63	the state of the s
strangeness and charm	1975 July p 45	archeology 1971 Nov p 72-81
lucking in 'jets' from particle collisions?	1978 Feb p 84	
quark confinement, baryons, high-energy physics	hadrone lentone	
mesons, quantum numbers, bag model, infra	red clavery model	R
string model		1/
models	1976 Nov p 48-60	. 156. 1
quark hypothesis, charmonium, charmed quarks,	1976 July p 60	rabbit plague, myxomatosis, Australia, pest control 1954 Feb p 30-35
gauge theory, hadrons, leptons, 'color' and 'l	nigh-energy physics,	Australia uses myxomatosis 1952 Sept. p 78
gauge meery, nations, reprove, editor and i		rabbits, fleas, parasitism, host parasite relationship, hormone estrus,
hadrons, heavy leptons, J particle, high-energy	1975 Oct p 38-50	adaptation, the rabbit flea and rabbit hormones
mechanics, intermediate vector bosons		1965 Dec p 44-53 [1027]
in 18th century	1976 Jan p 44-54	communication, territorial behavior, pheromones, scent glands,
quark in trouble, hadron/muon ratio	1976 Nov p 70	pecking order, territorial marking by rabbit
	1974 Aug p 46	1968 May p 116-126 [1108]
quark proliferation, a fourth and a litth	1977 Oct p 74	race, Rh factor, human evolution, Rh negative gene, Ro gene, blood
quartz, piezoelectricity, crystal structure, ultrason		typing 1951 Nov p 22-25
and uses of piezoelectricity quasar 3C147, most distant object in space	1949 Dec p 46-51	anthropology, human evolution, steatopygia, chimate, human
	1964 May p 59	migration, population, genetic variation, ancient migration and human diversity 1960 Sept. p. 112-127 [604]
quasars: quasi-stellar objects quasars, radio source, radio astronomy, occulation	notteens andurate	human diversity 1960 Sept p 112-12/1004)
fixing of radio-source position, occulation by		intelligence, whites, IQ, heredity, American Negro, heredity, population genetics, science policy, social psychology, twins,
mang of fadio-source position, occuration by	1966 June p 30-41	environment, racial discrimination 1970 Oct p 19-29 [1199]
cosmic radiation, radio galaxies, galactic halo, r		human population, genetic drift, population genetics, serum protein
source, extragalactic radio source as origin of		analysis 1974 Sept. p. 80-89
source, extragalactic fadio source as origin or	1966 Aug p 32-38	racial discrimination, blood typing, Judaism, religious persecution, social
spectroscopy, recession velocity, cosmological d		evolution, genetic drift, population genetics, Jewish community of
whether quasars are intra- or extra-galactic	, , , , , , , , , , , , , , , , , , ,	Rome 1957 Mar p 118-128
	766 Dec p 40-52 [305]	cultural anthropology, genocide, Tasmanians, Yumbri, Yamana,
cosmological distance	1967 Dec p 49-50	vanishing primutive cultures 1957 May p 39-45
Seyfert galaxies, galactic nucleus, radio emission		cities, social geography, American Negro, segregation metropolitan
spectroscopy, Doppler effect, red shift, shell hyp	othesis, radio source,	segregation 1957 Oct p 33-41
absorption lines clue to quasar structure	1970 Dec p 22-29	Amerindian, genocide, cultural assimilation, civil rights, persisting
cosmology, red shift, universe expansion	1971 May p 54-69	identity of Amerindians 1960 Feb p 37-45
binary stars, neutron stars, black hole, pulsar, X-	ray astronomy, X-ray	segregation, American Negro, Puerto Ricans, housing, poverty
sources	1972 July p 26-37	1965 Aug p 12-19 [626]
black hole, gravitational energy, pulsar, rotations	il energy, radiation in	black power, American Negro, group identity, economic power, ethnic
universe	1973 Feb p 98~105	groups, slavery, social deprivation 1967 Apr p 21-27 [633]
galactic center, Milky Way, radio source, Sagittai	nus A, Seylert	ghetto, unemployment, urban riots, public opinion, social class, American Negro, 'riffrasí theory' versus 'blocked-opportunity'
galaxies, spiral galaxies	1974 Apr p 66-77	
BL Lacertae objects, galaxies, radio astronomy	27 4 27 20 (271)	theory 1968 Aug p 13-21 [050] mtelligence, race, whites, IQ, heredity. American Negro. heredity.
	77 Aug p 32-39 (372) 1964 Aug p 38	population genetics, science policy, social psychology, twins,
hypotheses advanced	1964 Nov p 58	environment 1970 Oct p 19-29 [1199]
some twinkle	1964 Nov p 58	adolescence, family, alienation, divorce, poverty, infant mortality,
solar wind and quasars' twinkle	1966 Feb p 50	crime, suicide, drug addiction, changes in American family structure
recession speed and variability	1966 July p 54	[974 Aug p 53-61 [561]
absorption lines	1968 May p 50	prejudice, American Negro, public opinion, attitude survey. U S
diameters measured	1971 Jan p 47	whites, segregation, integration, longitudinal attitude study
life expectancy short BL Lacertae, an exploding galaxy	1974 May p 60	1978 June p 42-49 (707)
1 1 0.	1976 Oct p 64	even in Brazil 1952 Nov p 48
red shift quasi-particle concept, crystal energetics, crystal stru quasi-particle concept, crystal energetics, crystal stru	cture, metallurgy,	technological unemployment, U.S. Black unemployment 1967 Sept. p. 102
quasi-particle concept, crystal energeties, cr		racial integration, desegregation, public opinion, attitude survey, U.S.
properties	1973 Jan p 88-98	whites, American Negro, longitudinal attitude study reported in
avaci-stellar objects, see quasars		1964 July p. 16-23 (623)
quasi-stellar radio sources, see quasars	mathamatics	desegregation, American Negro, U.S. whites, attitude survey, public
quasi-stellar radio sources, see quasars quaternions, complex numbers, non-commutative als quaternions, complex numbers, his and work of	William Rowan	opinion longitudinal attitudes study 1971 Dec p 13-19 [673]
quaternions, complex numbers, note-commutative as high-energy physics, Hamilton, life and work of	1954 May p 82-87	
Hamilton	*** * * * * * * * * * * * * * * * * *	

	1.Ch.ton	mutation, high-energy radiation, nuclear medicine, X-ray, no
racial segregation, public opinion, American Negro, US whites, desegregation, attitude survey, sociology, longitudinal attitude study		threshhold to biological damage by radiation
desegregation, attitude survey, sociology, tolight	1956 Dec p 35-39	1960 Apr p 142–153 [71]
71 P 3	1956 Oct p 66	DNA replication, ultraviolet radiation, mutation rate, thymune dimer,
US attitudes effect of mass media on desegregation	1957 Nov p 77	repair of DNA 1967 Feb p 36-43
radar, microwaves, spectroscopy, molecular bonds, co		aging, free radicals, electron-spin resonance, chemical bond,
resonance absorption, energy levels, quantum ju	mps. quantum	spectroscopy, effects of free radicals on living systems
electrodynamics, time-keeping, foundation of m	aser, laser	1970 Aug p 70-83 [335]
technology	1948 Sept p 16-23	radiation effects, on reactor materials 1954 Oct p 47
air transport, air traffic control	1952 June p 64-65	radiation energy, celestial energy, cosmological 'hangups', energy cycle,
microwaves, optical properties, Maxwell's equation		power, entropy per unit energy, gravitational energy, stellar
tube, klystron, magnetron, waveguides, commun	ucation	evolution, thermonuclear energy 1971 Sept p 50-59 [662]
, , , , , , , , , , , , , , , , , , , ,	1952 Aug p 43-51	biosphere, energy cycle, photosynthesis, respiration, power, solar
weather observation, cloud structures	1953 July p 34-38	radiation, terrestrial radiation 1971 Sept p 88–100 [664]
microwaves, klystron, particle accelerator	1954 Mar p 84-90	radiation exposure, permissible limits reduced 1960 Nov p 91
hurncanes, typhoons, meteorology	1954 June p 32-37	radiation hazards, 'atoms for peace', gene mutation, safety standards,
airport, air traffic control, transportation industry	1960 Dec p 47~55	Geneva biology 1955 Oct p 38–42
solar system, astronomical unit, space exploration	Venus probes,	radiation pressure, light, sound wave pressure, photophoresis, analogy
Doppler effect, Earth-Sun distance more precise	ely measured	and distinction, light- and sound-wave pressure
	1961 Apr p 64-72	1957 June p 99–108
aerial mapping, aerial photography, airborne rada	r, all-weather	gas separation, laser, laser-light pressure, isotope separation, 'optical bottle', atomic and molecular beams 1972 Feb p 62-71
imaging, radar holography, side looking radar	77 0 04 05 12861	bottle', atomic and molecular beams 1972 Feb p 62–71 radiation safety, A E C report 1950 Sept p 46
	77 Oct p 84-95 [386]	radio, communication, frequency modulation, Armstrong, life and work
advances in technology	1957 Oct p 56	of Edwin H Armstrong 1954 Apr p 64–69
'angel' activity	1959 Mar p 66 1967 Aug p 40	radio telescope, interferometry, helical antenna 1955 Mar p 36-43
side-looking radar surveys of vegetation	1972 Jan p 52	Earth magnetic field, lightning, ionosphere, 'whistlers', radio echoes of
for taxung airplanes radar astronomy, radio telescope, solar system, radio		lightning 1956 Jan p 34–37
600 ft telescope	1960 Jan p 45-51	communication technology, ionosphere, microwave transmission,
interferometry, solar system, moon, planets, iono		troposphere, ionospheric and tropospheric scattering
and promise of radar astronomy	1960 Aug. p 50-59	1957 Jan p 46-51
Doppler effect, planetary motion, delay-Doppler		science history, electromagnetism, 'Hertzian' waves, electromagnetic
Venus, microwaves	1968 July p 28-37	spectrum, Heinrich Hertz biography 1957 Dec p 98–106
first radar echoes from Venus	1959 May p 74	artificial satellite, communication satellite, telecommunication, orbital
unambiguous radar echoes from Venus	1961 May p 82	motion, Echo II satellite, satellite communication systems,
radar blackout, atomic warfare, arms race, counterfor	orce strategy, ABM,	consideration of alternatives 1961 Oct p 90-102
ICBM, US ABM system capabilities and limi		triode, De Forest, vacuum tube, Marconi, Fleming valve, diode,
	1968 Mar p 21-31	rectification, De Forest's 1906 contributions 1965 Mar p 92-100
radar domes, building construction, pneumatic buil		rectification, thermionic tube, diode, Fleming, electron tube, history of
technology	1956 June p 131–138	science, England, Edison, lamps, Deforest 1969 Mar p 104-112
radar holography, aerial mapping, aerial photography	ny, airboine radar, an-	communication networks, communication satellite, electronic switching, multiplexing, network theory, communication, telephone
weather imaging, radar, side looking radar is radar pioneer, \$140,000 for Watson Watt	1952 Mar p 38	systems, television systems 1972 Sept p 116–128
radar tracking, tornadoes, meteorology, thermal up		communication, bouncing microwaves 1955 Sept p 69
forecasting	1958 May p 31-37	communication, millimeter-wave region proposed 1970 Dec p 42
radiation, crystal structure, neutron, nuclear fission		radio-absorption, Doppler effect, hydroxyl radical, microwaves, galaxy,
	56 Aug p 76-84 [245]	gas clouds 1965 July p 26-33
continental drift, speciation, reptile evolution, ge	enetic convergence,	radio astronomy, radio map of Galaxy, solar radio output, extragalactic
Gondwanaland, Laurasia, mammalian evoluti	on, supercontinent	radio waves, status and expectations of the new astronomy
breakup and animal diversification 19	69 Mar p 54-64 [877]	1949 Sept p 34-41
see also high energy radiation, X-ray		hydrogen, interstellar matter, 21-centimeter line 1953 Dec p 42-46
radiation belts, artificial satellite, solar particles, co	smic radiation,	Milky Way, spiral galaxies, interstellar hydrogen 1955 May p 42-48
telemetry, Van Allen belts, geomagnetism, spi	ter	Clouds of Magellan, spiral galaxies, galactic structure, resolution of structure of nearest galaxies 1956 Apr p 52-58
mapping of radiation belts by Explorer satelli	165 159 Mar p 39-47 [248]	structure of nearest galaxies 1956 Apr p 52-58 galaxy, interstellar hydrogen, radio star, the radio sky
artificial satellite, geomagnetism, Lorentz force,		1956 July p 32–37
radiation, Van Allen belts, aurora, physics of		galactic clusters, colliding galaxies, powerful signals may extend reach
	1963 May p 84-96	of astronomy 1956 Sept p 125-134
radiation chemistry, ammonia, solvated electrons,	radiolysis, ionization,	spectroscopy, hydrogen, absorption line, interstellar matter, 21-
sodium, alkali metals	1967 Feb p 76-83	centimeter wave absorption 1957 July p. 48-55
radiation counters, particle counters, high energy p		artificial satellite, orbital motion, interferometry, antennae, tracking
Work	1950 July p 40-43	station, satellite tracking 1958 fan n 23.20
radiation damage, atomic bomb test, radiation dar	nage, ionizing	spiral structure, interstellar hydrogen, galaxy, galactic nucleus,
radiation, leukemia, immune response, fallou whole body irradiation	1959 Sept p 117–137	mapping the local Galaxy 1959 Aug p 44-51 [250]
environmental pollution, ionizing radiation, fall	lout atomic homb test	galaxy, spiral arms, interstellar hydrogen, mapping the spiral arms of the local Galaxy
mutation, public health, hazards of radiation	to society	radio telescope, solar system, radar astronomy, steerable 600 ft
1959	Sept p 219-232 [1214]	telescope 1960 Jan p 45–51
chromosome breakage, ionizing radiation, muta	ition, cytology,	Jupiter, Venus, solar system, planets, measuring planetary surface
radiation damage to living cell	959 Sept p 94-100 [57]	temperature 1961 May n 59 65
cancer therapy, nitrogen mustard, carcinogenes	is, mutation, nuclear	garactic evolution, interstellar hydrogen, microwaves, hydrogen in
medicine, chemical imitation of radiation inj		galaxies correlated with their structure 1963 Tune n 24 106
	1960 Jan p 99-108	red sint, radio galaxies, synchrotron radiation, lunar occultation,
		quasars found to be extra-galactic 1062 Dec. = 54.69
		definition and star, Jodrell Bank radio telescope, solar flares,
		definitive evidence of radiowaves from stars 1964 Aug. p 13-19

į

nn 2			
radio source, quasars, occulation patterns, ac	curate fixing of radio-	cosmic radiation, radio galaxies, quasars, g	al.,
source position, occulation by moon	1966 June p 30-4	astronomy, extragalactic radio source as	anache naio, radio
cosmic radiation, ratho galaxies, quasars, gal extragalactic ratho source as origin of cost	actic halo, radio source,		1966 App n 22 20
Series and apply subject as official of cost		spectroscopy, Doppler effect, red shift, qua	sars shell hunathoric
galactic radio sources, radio galaxies	1966 Aug p 32-38	absorption lines clue to quasar structure	1970 Dec n 22 26
BL Lacertae objects, galaxies, puasars	1975 Aug p 26-39 1977 Aug p 32-39 [372	Crab Nebula, neutron stars, pulsar, stellar	evolution, gravitational
electric smog	1955 Aug p 47	i conapse, angular momentum	1971 Jun m 48 60
deuterium in interstellar space	1956 Jan p 46	intercontinental interferometry, interferom base interferometry	etry, radio telescope, long
U.S. National Radio Observatory	1957 Jan p 64	galactic center, Milky Way, quasars, Sagitta	1972 Feb p 72-83
US National Radio Observatory	1958 Apr p 50	spiral galaxies	1974 Apr p 66-77
source of Jovian radio signals	1958 June p 46	explosion, not collison, energy	1961 Sept p 88
interference from telecommunications	1959 Nov p 88	brightest galaxies	1963 May p 76
telecommunication, channels reserved for ast		'vanable galaxy'	1963 July p 67
extragalactic radio sources	1959 Dec p 82		1965 Mar p 54
spectrographic technology	1960 May p 96		ia, galactic collision, with
18 radio galaxies	1960 Aug p 70 1961 Mar p 86		
diameter, orbit, velocity of Venus measured	1961 July p 67		1953 Jan p 17-21
steerable telescope	1961 Oct p 82	gałaxy, radio astronomy, interstellar hydroge	
arms race, defense of Project West Ford	1961 Nov p 78	synchrotron radiation, supernovae, Crab Nel	1956 July p 32-37
Project West Ford fizzles	1961 Dec p 74	of the state of th	1957 Mar p 52-60
US Project West Ford	1962 June p 78	flare stars, radio astronomy, Jodrell Bank rad	lio telescope, solar flares.
600-ft telescope shelved	1962 Sept p 100	definitive evidence of radiowaves from star	
synchrotron radiation	1962 Nov p 72	huge diameters	1953 Mar p 50
telecommunication, UHF TV bands to radio		veiled by hydrogen clouds	1954 Sept p 78
	1963 July p 65	a variable source	1955 Sept p 69
radio channels reserved celestial maser	1964 Apr p 62	radio telescope, interferometry, radio, helical an	
steerable radio telescope	1966 Jan p 48		1955 Mar p 36-43
radio communication, upper atmosphere, stratos	1967 Aug p 38	solar system, radar astronomy, radio astronom	
aurora, noctilucent clouds, meteorology	1949 Jan p 30-39	telescope	1960 Jan p 45-31
radio discovery, electromagnetism, electron disco	very induction coil X-	radio source, intercontinental interferometry, interferometry	1972 Feb p 72-83
ray discovery, science history	1971 May p 80–87	Jodrell Bank	1952 July p 36
radio divining rod, water table, depth of water tab	ole by radio	Ohio State University model	1956 Apr p 60
•	1956 May p 59	radio transmission, 'obstacle-gain'	1953 Dec p 56
radio echo, meteorites, ion cloud, spectroscopy	1951 June p 22-28	radioactive decay, chemical bond, 'hot atom' chei	nistry
radio emissions, stellar magnetic fields, cosmic ra			1950 Mar p 44-47
megnetohydrodynamics, electrical induction	, electricity in space 1952 May p 26~29	californium, table of elements, einsteinium, fen elements, transuranium elements, mendelevi	mium, synthetic
Sun, sunspots, magnetic storms, corpuscular st		101	956 Dec p 66-80 [243]
san, sanspois, magnetic storius, corpusculai si	1955 June p 40-44	isotope dating, solar system, meteorites, Earth	crust, age of solar
Jupiter, Van Allen belts, magnetic field, origin		system 1	957 Apr p 80-94 [102]
	1964 July p 34-42	alpha decay, transurantum elements, isotopes, n	luclear stability, beta
cosmic radiation, pulsar, superdense matter, su	pernovae	decay, 'synthetic' elements, periodic table, the	e 'superheavy' elements
	1971 July p 74-85	beyond 103	1969 Apr p 56-67
radio galaxies, universe, Cassiopeia, Cygnus A, re-	d shift, Crab Nebula,	fission-track dating, geochronology, glass age, n	1976 Dec p 114-122
colliding galaxies	1956 Sept p 204-220	age, pottery age, uranium fission isotopes, elements, atomic nucleus, 'synthetic' el	ements exptic isotopes
gravitational collapse, nonthermal emission, sur radiation, intensity of galactic radio emission		of light elements 197	78 June p 60-72 [3010]
	962 Mar p 41-49 (278)	radioactive nuclei, spectroscopy, age of elements, a	ge of universe, element
red shift, synchrotron radiation, radio astronom		formation, mass spectroscopy, nucleochronole	gy, stellar evolution,
ouasars found to be extra-galactic	1963 Dec p 54-62	supernovae	1974 Jan p 69-77
cosmic radiation, synchrotron radiation, galaxy	M 82, exploding	radioactive tracer, see tracer isotopes	of aurosa damand
galaxies, proposed origin of cosmic rays	1964 Nov p 38-47	radioactive waste disposal, water pollution, biologic sewage treatment stream pollution	1952 Mar p 17-21
cosmic radiation, quasars, galactic halo, radio as extragalactic radio source as origin of cosmic	rove	environmental pollution, fission reactor, nuclear	
extragalactic radio source as otigin of costrac	1966 Aug p 32-38	underground storage 197	77 June p. 21–31 [364]
cosmic background radiation, evolutionary university	erse, universe	radioactivity, Earth heat, Earth mantle, convection of	urrents, Earth core.
expansion, 'big bang' theory	1974 Aug p 26-33	heat flow	1950 Dec p 54-57
palactic radio sources, radio astronomy	1975 Aug p 26-35	atomic theory, Rutherford-Soddy theory, element science history, radioactive decay transmutation	transmutation,
energy from gravitational collapse	1963 Mar p 78	alchemy'	1966 Aug p 88-94
galactic tails	1973 Sept p 72 1978 Apr p 78	radioautography, isotones, molecular biology, cytolog	y use of
black hole in M87? radio map of Galaxy, radio astronomy, solar radio	nutnut. extragalactic	radioicotones in biological research	1949 Feb to 30-41
radio waves, status and expectations of the nev	v astronomy	poisons, ionizing radiation, 'bone-seekers', chelate	scintillation counter
	1343 3601 0 34-41	phloem, xylem, plants, sap circulation, transport of	1955 Aug. p. 34-39
radio observatory, Green Bank observatory, tornado	bes, U.S. National	tissue 195	9 Feb p 44-49 [53]
		ascites tumor, isotopes, cell life cycle, cellular autob	iography
	Pohbtet zurt	(903 A)	ue o 103-11011631
	78 Jan p 74–84 [394]	radiocarbon dating, paleobotany, carbon 14, archeolog	ucal dating, pollen
	1950 May p 28	analysis Stonehenge, built 4,000 years ago, 2,000 years before	1902 1 00 0 24-28
radio signal, sent around the world radio source, quasars, radio astronomy, occulation to	satterns, accurate	Stonenenge, built 4,000 years ago, 2,000 years before	1953 June p 25-31
fixing of radio-source position, occulation by n	1966 June p 30-41	climate dendrochronology 1972 Ma	ıy p. 92-100 [1250]
**************************************	tand anne h anner	Sionehenge 1848 B C ± 275 years	1952 July p 40

radiocarbon dating archeology, agricultural revolution, Jarmo site, cave to village at Jarmo 1952 Oct p 62-66	incompleteness theory, algorithms, mathematical proof, algorithmic definition of randomness 1975 May p 47-52
radioisotope, tritium, cosmic radiation, lithium, nuclear reactor, tracer	random walk, probability, law of large numbers, gambler's fallacy, mathematical proof, philosophy of science 1950 Oct p 44-47
chemistry 1954 Apr p 38-40 radioisotope dating, isotope dating, lead isotopes, strontium-rubidium	rangeland, land use, grazing, forestry, agricultural resources, land
ratios, geological and paleontological time dated by radioactive	management, U.S. Western states 1970 Feb p 88–96 [1169] rapid-eye-movement sleep, see REM sleep
decay 1949 Aug p 48-51 radiolysis, ammonia, solvated electrons, ionization, radiation chemistry,	rare-earth ions, laser, liquid lasers, solvation shell, chelate cage,
sodium, alkalı metals 1967 Feb p 76-83	comparison of liquid, gas and solid-state lasers 1967 June p 80-90 rare earths, fission products, table of elements, abundance in fission
radionuclides, microanalysis, neutron activation, trace elements, decay properties 1967 Apr p 68-82	products draws attention to rare earths 1951 Nov p 26-30
radiosonde, meteorology, rain gauge, anemometer, barometer,	Raschig synthesis, hydrazıne, rocket fuel, reducing agent 1953 July p 30–33
hygrometer, instrumentation of meteorology 1951 Dec p 64-70 radiotherapy, cancer therapy, isotopes, X-ray, ionizing radiation,	rats, group behavior, crowding, population density, comparative
dosimetry, roentgenology, nuclear medicine, radiation use in	psychology, social pathology of crowding
medicine 1959 Sept p 164-176 bone marrow transplantation, kidney transplant, immune response,	1962 Feb p 139–148 [506] aggression, animal behavior, social behavior, territorial behavior,
circumventing immune response 1959 Oct p 57~63	natural history, Rattus rattus, Rattus norvegicus 1967 Jan p 78-85
radiowaye, electrical induction, science history, Henry, life and work of Joseph Henry 1954 July p 72-77	brain development, environmental stimuli, learning, memory, sensory deprivation 1972 Feb p 22–29 [541]
light velocity, phase velocity, plasma, free-electron density, 'things that	coping behavior, psychosomatic illness, stress
go faster than light' 1960 July p 142–152 carner-wave modulation, coaxial cable, communication technology,	1972 June p 104–113 [544] animal communication, brown rat 1977 May p 106–116 [577]
electromagnetic spectrum, fiber optics, communication channels,	memory, brain organization, hippocampal system, spatial memory
bandwidth, noise 1972 Sept p 98–113 radium, uranium fission, nuclear fission, fission products, 'synthetic'	1977 June p 82–98 rattlesnake, pit viper, fangs, high-speed photography, rattlesnake 'bite' is
elements, isotropy, transuranium elements, science history, discovery	a stab 1953 Oct p 100–102
of fission 1958 Feb p 76-84 railway, mass transit, underground transport, pneumatic propulsion,	cichlid fish, marine iguana, fighting behavior, animal behavior, comparative psychology, oryx 1961 Dec p 112–122 [470]
gravity propulsion, transport by 'pedulum' train 1965 Aug p 30-40	Rayleigh waves, sound waves, communication technology, crystal surface
traffic patterns, cities, commutation, mass transit, automobile, transportation, Bay Area Rapid Transit system as model for urban	waves, electronic equipment, signal processing, ultrasonic waves 1972 Oct p 50-68
transportation 1965 Sept p 162–174	rayon, synthetic fiber, nylon, synthetic macromolecules, cellulose, glass,
rain, high-speed photography, streamlining 1954 Feb p 64-68 meteorology, condensation nuclei, ocean foam, salt particles, cloud	man-made textile fibers 1951 July p 37-45 cellulose, forest products, crystal structure, lignin, polymers, paper,
physics, seasalt and rain 1957 Oct p 42-47	polysaccharides, overview of natural polymer 1957 Sept. p 156-168
sea floor spreading, volcanoes, sea water composition, geochemical cycle, salmity, carbonate, hydrologic cycle, why the sea is salt	forest products, wood pulp, paper, cellulose, lignin, waste recycling, kraft process 1974 Apr p 52–62
1970 Nov p 104–115 [839]	wrinkelproof rayon, and fire resisant 1949 Dec p 30
catchment basins 1965 Nov p 53 vitamin B-12 source for algae 1968 Oct p 59	re-entry corridor, artificial satellite, orbital motion, space exploration, Mercury, re entry vehicle, ablation, re entry from space
rain drop, elutriation, soil erosion, sheet erosion, micromechanics of soil	1961 Jan p 49-57
erosion 1948 Nov p 40-45 rain-forest ecosystem, slash burn agriculture, ecological fragility, tropical	re-entry vehicle, artificial satellite, orbital motion, space exploration, Mercury, ablation, re-entry corridor, re-entry from space
rain forest, fungal hyphae 1973 Dec p 58-67 [1286]	1961 Jan p 49–57
rain gauge, meteorology, radiosonde, anemometer, barometer, hygrometer, instrumentation of meteorology 1951 Dec p 64-70	reaction kinetics, heat, flame chemistry, oxy-aluminum torch, high temperatures flame 1954 Sept p 84-95
rainbow, glory, light diffraction, optics 1974 July p 60-73	photolysis, photochemistry, chemical reaction, free radicals,
atmospheric optics, reflection, refraction 1977 Apr p 116-127 Rainier explosion, atomic explosions, 'Plowshare', underground nuclear	spectroscopy, color centers, high speed chemistry 1960 May p 134-145
explosions, search for constructive use for nuclear explosions	algae, deuterium, metabolism of mammals, penicillin mold, heavy
1958 Dec p 29-35 rainwater composition, carbon dioxide, neuston, marine life, nucrolayer	water biology 1960-116 reaction propulsion, rocket engine, regenerative motor, liquid fuel,
oceanography, ocean surface, surfactant 1974 May p 62-77 [913] ram jet, flame chemistry, chemical kinetics, flash tube, heat, velocity,	technology history, status of the technology on eve of space age
luminosity, spectroscopy 1953 May p 29–35	1949 May p 30-39 'reactive inhibition', motivation, fatigue, schizophrenia, experiment in
helicopters, rotary wing aircraft, hovering flight 1955 Jan p 36-40 Raman clock, Kerr gate, laser mode locking, molecular motion, quantum	objective measurement of motivation 1963 May p. 130–140
mechanics, ultrafast phenomena, picosecond molecular processes	reactive intermediates, carbenes, carbon chemistry, chemical reaction, molecular orbitals 1976 Feb p 101-113
1973 June p 42-60 Raman laser effect, gas laser, solid-state lasers, diode junction laser, laser	reading, memory, visual search, visual scanning, information processing,
technology in rapid development 1963 July p 34–45 12941	bilingualism, language, communication, information processing.
Raman waves, musical instruments, string instruments, following bow experiment, wolf note, physics of bowed string 1974 Jan p 87-95	learning 1968 Mar p 78-86 visual perception, bilingualism, dyslexia, eye movement, grammatical
Ramapithecus, hominid, human evolution, Miocene fossils, primate	relations, language, perception of words 1977 July p. 24_01 [545]
rand tablet, cathode ray tube, computer technology, computer displays.	letters, words, pattern recognition, visual cues in recognition of letters and words 1978 Jan p 122-130 [122]
information theory, light pen, computer graphics, computer graphics and man-machine interface 1966 Sept p 86–96	reading machines, cluster seeking algorithms, pattern recognition
random-coil model, amorphous polymers, polymer microstructure.	computer technology 1971 Apr p 56-71 real-number line, formalism, infinitesimals, mathematical logic,
semicrystalline polymers, synthetic polymers, thermoplastic polymers 1975 Dec. p. 96–106	Platonism 1071 Ave. 22.00
random-dot stereograms, binocular vision, stereogram experiments,	US census of 1950
random numbers, Monte Carlo method, Buffon needle problem,	redistricting, elections, representative government, computer
probability, mathematics 1955 May p 90-96	reason, information processing, memory learning theory, retigned
	association as aid to memory 1956 Aug. p. 42-46 [419]

recall, learning, forgetting, retroactive inhibition, proactive inhibition,	
1967 Oct p. 117, 124 (50)	red shift, cosmology, galactic recession, element abundance, 'synthetic' elements, universe expansion 1948 July p. 20-25
receivers, communication terminals, computer technology	astronomy, galaxies, galactic recession, universe expansion, science,
communication technology, communication, microwave relays, transmitters	
receptor cells, retina, rod cells, cone cells, retinal sensitivity, retinal	1950 Sept. p. 24-27
information processing maintains high-contrast image over broad	Palomar Observatory, cosmology, stellar populations, interstellar matter, galactic evolution, Hale telescope, first yield from 200 inch
range of illumination 1072 for = 70.7	7 telescope 1952 Feb n 42-51
receptor specificity, bacteriophage, cell membrane, bacterial receptor sites, O antigen, Salmonella 1969 Nov p 120-124 [116]	cosmology, universe expansion, Olber's paradox, world lines curvature
recession velocity, cosmology, red shift, universe expansion, universe	of space, galactic evolution, evolutionary universe, element
spectroscopy, galaxies, galactic clusters, observational cosmology	Cosmology, universe expansion, universe spectroscopy, polaries
1956 Sept p 170-182 [240 spectroscopy, quasars, cosmological distance, red shift, whether	recession velocity, galactic clusters, observational cosmology
quasars are intra- or extra-galactic 1966 Dec p 40-52 [305	1956 Sept p 170-182 [240]
recessive gene, American Negro, skin color, blood typing, marriage	policy and a state garages, cygnus M, Crab Mcoura, comming
preferences, population genetics, genetic meaning of race	stellar rotation, Doppler effect, stellar evolution, spectroscopy, violet
1954 Oct p 80-85 nonizing radiation, mutation 1955 Nov p 58-68 [29]	shift, correlation of rotational velocity with mass
reciprocal crossing, cytoplasmic inheritance, maternal inheritance, sex	
linked traits, non-Mendelian inheritance, male sterility, paramecium.	radio galaxies, synchrotron radiation, radio astronomy, lunar occultation, quasars found to be extra-galactic 1963 Dec p 54-62
chloroplast, plastids, cytogene, review of evidence for an extra-	spectroscopy, quasars, recession velocity, cosmological distance,
chromosomal genetics 1950 Nov p 30-39 [39] recombinant DNA, bacteriophage, virology, provirus, modified virus	whether quasars are intra- or extra-galactic
1955 Apr p 92-98 [24]	1966 Dec p 40-52 [305] galactic evolution, gravity, gravitational instability, primordial fireball,
bacteria, sexual reproduction, conjugation, gene recombination,	nonuniformities, protogalaxies, origin of galaxies
sexuality in bacteria 1956 July p 109–118 [50]	1970 June p 26-35
bacteria, gene transformation, drug resistance, streptomycin, pneumococcus, biochemistry of Avery, McLeod and McCarty	spectroscopy, Doppler effect, quasars, shell hypothesis, radio source,
experiment 1956 Nov p 48-53 [18]	absorption lines clue to quasar structure 1970 Dec p 22-29 cosmology, quasars, universe expansion 1971 May p 54-69
bacteria, gene transduction, bacteriophage, bacterial gene transduction	uncertain at Palomar 1955 Dec p 47
by phage infection 1958 Nov p 38–43 [106]	astrophysics, Hubble constant 1972 Feb p 41
carcinogenesis, polyoma virus, virus disease, 'temperate' infection, genetic transduction, viral induced malignancy	red shift increases, with reach of 200-inch 1951 Aug p 31 red shift measurement, astrophysics, Eotvos experiment, relativity theory,
1960 Nov p 63-71 [77]	gravitation theories assessed 1974 Nov p 24-33
bacteria, bacteriophage, conjugation, gene recombination, mechanisms	redistricting, reapportionment, elections, representative government,
of heredity and infection in bacteria 1961 June p 92–107 [89] gene transformation, pneumococcus, cell wall, transformation induced	computer applications, gerrymander 1965 Nov p 20-27 reducing agent, hydrazine, rocket fuel, Raschig synthesis
by factor synthesized by cell 1969 Jan p 38–44	1953 July p 30–33
gene manipulation, molecular cloning, plasmids, Asilomar conference,	redundancy, information theory, statistics, thermodynamics, noise, digital
hazard evaluation 1975 July p 24-33 [1324]	storage media, analogue storage media, information compression, automatic control, information 1952 Sept p 132-148
gene manipulation, gene splicing, National Academy of Sciences, science policy, NIH guidelines 1977 July p 22–23 [1362]	computer music, music, information theory, computer study of
fragmentary inheritance 1958 Oct p 54	structure of music 1959 Dec p 109-120
recombination induced 1960 May p 90 NIH guidelines 1976 Aug p 42	reef ecology, ecological niche, symbiosis, cleaning behavior, animal behavior, behavioral integration of reef ecology
NIH guidelines 1976 Aug p 42 safety guidelines 1977 May p 53	1961 Aug p 42–49 [135]
see also gene recombination	reef evolution, climatic change, coral reefs, energy cycle, fossil reefs,
recording, communication technology, magnetic tape, computer, magneto-optical recording, playback 1969 Nov p 70-82	marine ecosystems 1972 June p 54-65 [901] reflection, photoelectric effect, color, refraction, light, resonance
magneto-optical recording, playback 1969 Nov p 70-82 rectification, radio, triode, De Forest, vacuum tube, Marconi, Fleming	absorption, photon, electron, interaction of light with matter
valve, diode, De Forest's 1906 contributions 1965 Mar p 92-100	1968 Sept p 60-71
radio, thermionic tube, diode, Fleming, electron tube, history of science, England, Edison, lamps, Deforest 1969 Mar p 104-112	atmospheric optics, rainbow, refraction 1977 Apr p 116-127 color and illumination, color vision, 'retinex' theory, visual perception,
rectifiers, electronics, electron tubes, amplifiers, communication	visual prements, 'color Mondrian' experiment
technology, electron optics, cathode-ray tube, communication,	1977 Dec p 108-128 [1392]
power, thermionic emission, state of the technology 1950 Oct p 30-39	reflex arc, embryonic development, regeneration, nerve circuits, embryology, 'hard-wiring' of nervous system
recycling, material resources, biosphere, nonrenewable resources,	1959 Nov p 68-73 [72]
morganic-materials cycle 1970 Sept p 194-208 [1198]	nerve conduction, synapse, motor neuron, membrane potential inhibitory impulse, transmitter molecules, nerve excitation, activity
nuclear power, materials, fusion reactor, fusion torch, energy transformation, plasma containment, magnetohydrodynamics	at the neural synapse 1965 Jan p 56-66 [1001]
1971 Feb p 50-64 [340]	central nervous system, neuromuscular control, muscle contraction,
red blood cell, see erythrocyte	nerve inhibition, interneuron, motor neuron, stretch reflex, Renshaw cell, synapse 1966 May p 102-110
red blood cen, see crythnocyte red-feather money, commerce, money, bride price, cultural anthropology, Southwest Pacific-Solomon Islands culture 1962 Mar p 94-104	nervous system vision motor neuron, interneuron, animal behavior,
- to the local state clare civilar evolution, sienai modernie,	small neuron systems as models for study 1967 May p 44-52 [1073] leeches, neural organization, nerve cells, nerve physiology, nerve
main-sequence stars, H-R diagram, stellar allatemy, age of 1970 July p 26-39	signals, nervous system, neuro motor synapse
stars	1974 Jan p 38-48 [1287] reflex conditioning, spinal reflexes, conditioned reflex, "spinal" cats (i.e.
	with recented coingle cords) Walk' 1900 Nov p 20-22
Red Sea, Afar triangle, Rift Valley, guyot, Guit of Addit, sea floor spreading opens new ocean	reference photoelectric effect, color, reliccion, light, resondnee
spreading, continental diff, scarnoof spreading, feb p 32-40 [891]	absorption, photon, electron, interaction of light with matter 1968 Sept p 60-71
Red Sea hot brines, brine, salimity, percolation, ocean floor, sea-floor 1970 Apr p 32-42	atmospheric optics, mirages, optical illusion, Fata Morgana, walking
spreading	on water 1976 J in p 102-111

atmospheric optics, rainbow, reflection 1977 Apr. p. 116-127 ractory period, nerve impulse, action potential, sodium ion potential,	
nodes of Ranvier, nerve membrane 1952 Nov. p. 55-65 [20]	
rigerated tombs, Scythian culture, Siberia, tombs, archeology, Altai	
Mountains, cloth, leather and wood artifacts preserved by refrigeration 1965 May p. 100-109	
frigeration, cryogenic technology, Stirling cycle, hot-air engine, closed	
cycle, displacer 1965 Apr. p. 119–127 frigerator, .3 degree absolute 1953 Sept. p. 82	
generation, embryonic development, dedifferentiation of tissue cells,	
cancer 1949 Dec. p. 22-24 protozoon, cell differentiation, embryonic development, protozoon as	
model for embryological study 1953 Mar. p. 76-82	
Hydra, model for study of multi-cellularity 1957 Dec. p. 118–125 salamander, frog, embryonic development, nerve fibers, role of nerve	
fibers in regeneration 1958 Oct. p. 79–88	
embryonic development, nerve circuits, embryology, reflex arc, 'hardwiring' of nervous system 1959 Nov. p. 68-75 [72]	
wound healing, leukocyte, fibroblasts, collagen, epidermal cells	
1969 June p. 40-50 [1144] biological form, cell differentiation, cellular polarity, embryonic	
development, Hydra, morphogenesis, morphogens	
1974 Dec. p. 44-54 [1309] cell differentiation, cockroach, embryo-graft experiments, embryonic	
development, newt, biological form 1977 July p. 66-81 [1363]	
egenerative furnace, heat, chemistry, nitrogen fixation, temperature limits, high temperatures: chemistry 1954 Sept. p. 109–119	
egenerative motor, rocket engine, reaction propulsion, liquid fuel,	
technology history, status of the technology on eve of space age 1949 May p. 30-39	
Regge poles, high-energy physics, resonance 'particles', group theory,	
temporary associations of particles 1963 Jan. p. 38-47 [290] Regge trajectory, high-energy physics, baryons, mesons, 'strong' force,	
'eightfold way', conservation laws, resonance 'particles', 'bootstrap'	
hypothesis 1964 Feb. p. 74-93 [296] mesons, particle accelerator, pions, proton, quark, high-energy physics,	
middle particle acceptator, protes, protes, quaris, ingit energy projects,	
nucleons, high-energy scattering 1967 Dec. p. 76–91	
nucleons, high-energy scattering 1967 Dec. p. 76–91 regional planning, local government, cities, New York, metropolitan	
nucleons, high-energy scattering 1967 Dec. p. 76–91 regional planning, local government, cities, New York, metropolitan region, central city, suburbs, Northeast Corridor 1965 Sept. p. 134–148	
nucleons, high-energy scattering 1967 Dec. p. 76-91 regional planning, local goverment, cities, New York, metropolitan region, central city, suburbs, Northeast Corridor 1965 Sept. p. 134-148 regolith, Apollo project, moon, meteorites, lunar soil, structure and history of moon 1970 Aug. p. 14-23	
nucleons, high-energy scattering 1967 Dec. p. 76-91 regional planning, local government, cities, New York, metropolitan region, central city, suburbs, Northeast Corridor 1965 Sept. p. 134-148 regolith, Apollo project, moon, meteorites, lunar soil, structure and history of moon 1970 Aug. p. 14-23 rehabilitation medicine, spinal cord break 1968 Apr. p. 50 [50]	
nucleons, high-energy scattering 1967 Dec. p. 76–91 regional planning, local goverment, cities, New York, metropolitan region, central city, suburbs, Northeast Corridor 1965 Sept. p. 134–148 regolith, Apollo project, moon, meteorites, lunar soil, structure and history of moon 1970 Aug. p. 14–23 rehabilitation medicine, spinal cord break 1968 Apr. p. 50 [50] relative isotope abundance, meteorites, solar system, age of solar system 1960 Nov. p. 171–182 [253]	
nucleons, high-energy scattering 1967 Dec. p. 76–91 regional planning, local goverment, cities, New York, metropolitan region, central city, suburbs, Northeast Corridor 1965 Sept. p. 134–148 regolith, Apollo project, moon, meteorites, lunar soil, structure and history of moon 1970 Aug. p. 14–23 rehabilitation medicine, spinal cord break 1968 Apr. p. 50 [50] relative isotope abundance, meteorites, solar system, age of solar system 1960 Nov. p. 171–182 [253] relativity, photoelectric effect, Einstein, work of Albert Einstein appraised	
nucleons, high-energy scattering 1967 Dec. p. 76–91 regional planning, local goverment, cities, New York, metropolitan region, central city, suburbs, Northeast Corridor 1965 Sept. p. 134–148 regolith, Apollo project, moon, meteorites, lunar soil, structure and history of moon 1970 Aug. p. 14–23 rehabilitation medicine, spinal cord break 1968 Apr. p. 50 [50] relative isotope abundance, meteorites, solar system, age of solar system 1960 Nov. p. 171–182 [253] relativity, photoelectric effect, Einstein, work of Albert Einstein appraised at 70 1949 Mar. p. 52–55 gravity, inertia, Galilean relativity, Einstein, frames of reference,	
nucleons, high-energy scattering 1967 Dec. p. 76-91 regional planning, local goverment, cities, New York, metropolitan region, central city, suburbs, Northeast Corridor 1965 Sept. p. 134-148 regolith, Apollo project, moon, meteorites, lunar soil, structure and history of moon 1970 Aug. p. 14-23 rehabilitation medicine, spinal cord break 1968 Apr. p. 50 [50] relative isotope abundance, meteorites, solar system, age of solar system 1960 Nov. p. 171-182 [253] relativity, photoelectric effect, Einstein, work of Albert Einstein appraised at 70 1949 Mar. p. 52-55 gravity, inertia, Galilean relativity, Einstein, frames of reference, philosophy of science, identity of inertia and gravity	
nucleons, high-energy scattering 1967 Dec. p. 76-91 regional planning, local goverment, cities, New York, metropolitan region, central city, suburbs, Northeast Corridor 1965 Sept. p. 134-148 regolith, Apollo project, moon, meteorites, lunar soil, structure and history of moon 1970 Aug. p. 14-23 rehabilitation medicine, spinal cord break 1968 Apr. p. 50 [50] relative isotope abundance, meteorites, solar system, age of solar system 1960 Nov. p. 171-182 [253] relativity, photoelectric effect, Einstein, work of Albert Einstein appraised at 70 gravity, inertia, Galilean relativity, Einstein, frames of reference, philosophy of science, identity of inertia and gravity 1957 Feb. p. 99-109 Lorentz transformation, Einstein, child development, child's view of	
nucleons, high-energy scattering regional planning, local goverment, cities, New York, metropolitan region, central city, suburbs, Northeast Corridor 1965 Sept. p. 134-148 regolith, Apollo project, moon, meteorites, lunar soil, structure and history of moon 1970 Aug. p. 14-23 rehabilitation medicine, spinal cord break 1968 Apr. p. 50 [50] relative isotope abundance, meteorites, solar system, age of solar system 1960 Nov. p. 171-182 [253] relativity, photoelectric effect, Einstein, work of Albert Einstein appraised at 70 1949 Mar. p. 52-55 gravity, inertia, Galilean relativity, Einstein, frames of reference, philosophy of science, identity of inertia and gravity 1957 Feb. p. 99-109 Lorentz transformation, Einstein, child development, child's view of reality 1957 Mar. p. 46-51	
nucleons, high-energy scattering regional planning, local goverment, cities, New York, metropolitan region, central city, suburbs, Northeast Corridor 1965 Sept. p. 134-148 regolith, Apollo project, moon, meteorites, lunar soil, structure and history of moon 1970 Aug. p. 14-23 rehabilitation medicine, spinal cord break 1968 Apr. p. 50 [50] relative isotope abundance, meteorites, solar system, age of solar system 1960 Nov. p. 171-182 [253] relativity, photoelectric effect, Einstein, work of Albert Einstein appraised at 70 1949 Mar. p. 52-55 gravity, inertia, Galilean relativity, Einstein, frames of reference, philosophy of science, identity of inertia and gravity 1957 Feb. p. 99-109 Lorentz transformation, Einstein, child development, child's view of reality relativity of motion, Coriolis effect, ocean circulation, atmospheric circulation 1952 May p. 72-78 [839]	
nucleons, high-energy scattering regional planning, local goverment, cities, New York, metropolitan region, central city, suburbs, Northeast Corridor 1965 Sept. p. 134-148 regolith, Apollo project, moon, meteorites, lunar soil, structure and history of moon 1970 Aug. p. 14-23 rehabilitation medicine, spinal cord break relative isotope abundance, meteorites, solar system, age of solar system 1960 Nov. p. 171-182 [253] relativity, photoelectric effect, Einstein, work of Albert Einstein appraised at 70 1949 Mar. p. 52-55 gravity, inertia, Galilean relativity, Einstein, frames of reference, philosophy of science, identity of inertia and gravity 1957 Feb. p. 99-109 Lorentz transformation, Einstein, child development, child's view of reality relativity of motion, Coriolis effect, ocean circulation, atmospheric circulation 1952 May p. 72-78 [839] relativity theory, ether drift, Fitzgerald contraction, Maxwell's equations,	
nucleons, high-energy scattering 1967 Dec. p. 76–91 regional planning, local goverment, cities, New York, metropolitan region, central city, suburbs, Northeast Corridor 1965 Sept. p. 134–148 regolith, Apollo project, moon, meteorites, lunar soil, structure and history of moon 1970 Aug. p. 14–23 rehabilitation medicine, spinal cord break 1968 Apr. p. 50 [50] relative isotope abundance, meteorites, solar system, age of solar system 1960 Nov. p. 171–182 [253] relativity, photoelectric effect, Einstein, work of Albert Einstein appraised at 70 gravity, inertia, Galilean relativity, Einstein, frames of reference, philosophy of science, identity of inertia and gravity 1957 Feb. p. 99–109 Lorentz transformation, Einstein, child development, child's view of reality of motion, Coriolis effect, ocean circulation, atmospheric circulation 1952 May p. 72–78 [839] relativity theory, ether drift, Fitzgerald contraction, Maxwell's equations, Lorentz transformation, life and work of G. F. Fitzgerald 1953 Nov. p. 93–98	
nucleons, high-energy scattering regional planning, local goverment, cities, New York, metropolitan region, central city, suburbs, Northeast Corridor 1965 Sept. p. 134-148 regolith, Apollo project, moon, meteorites, lunar soil, structure and history of moon 1970 Aug. p. 14-23 rehabilitation medicine, spinal cord break 1968 Apr. p. 50 [50] relative isotope abundance, meteorites, solar system, age of solar system 1960 Nov. p. 171-182 [253] relativity, photoelectric effect, Einstein, work of Albert Einstein appraised at 70 1949 Mar. p. 52-55 gravity, inertia, Galilean relativity, Einstein, frames of reference, philosophy of science, identity of inertia and gravity 1957 Feb. p. 99-109 Lorentz transformation, Einstein, child development, child's view of reality 1957 Mar. p. 46-51 relativity of motion, Coriolis effect, ocean circulation, atmospheric circulation 1952 May p. 72-78 [839] relativity theory, ether drift, Fitzgerald contraction, Maxwell's equations, Lorentz tranformation, life and work of G. F. Fitzgerald 1953 Nov. p. 93-98 artificial satellite, Mercury, stellar shift, electromagnetic frequency shift, perihelion shift, clock paradox, general relativity, testing	
nucleons, high-energy scattering regional planning, local goverment, cities, New York, metropolitan region, central city, suburbs, Northeast Corridor 1965 Sept. p. 134-148 regolith, Apollo project, moon, meteorites, lunar soil, structure and history of moon 1970 Aug. p. 14-23 rehabilitation medicine, spinal cord break relative isotope abundance, meteorites, solar system, age of solar system 1960 Nov. p. 171-182 [253] relativity, photoelectric effect, Einstein, work of Albert Einstein appraised at 70 1949 Mar. p. 52-55 gravity, inertia, Galilean relativity, Einstein, frames of reference, philosophy of science, identity of inertia and gravity 1957 Feb. p. 99-109 Lorentz transformation, Einstein, child development, child's view of reality relativity of motion, Coriolis effect, ocean circulation, atmospheric circulation 1952 May p. 72-78 [839] relativity theory, ether drift, Fitzgerald contraction, Maxwell's equations, Lorentz tranformation, life and work of G. F. Fitzgerald 1953 Nov. p. 93-98 artificial satellite, Mercury, stellar shift, electromagnetic frequency shift, perihelion shift, clock paradox, general relativity, testing Einstein's general theory of relativity 1959 May p. 149-160	
nucleons, high-energy scattering regional planning, local goverment, cities, New York, metropolitan region, central city, suburbs, Northeast Corridor 1965 Sept. p. 134-148 regolith, Apollo project, moon, meteorites, lunar soil, structure and history of moon 1970 Aug. p. 14-23 rehabilitation medicine, spinal cord break relative isotope abundance, meteorites, solar system, age of solar system 1960 Nov. p. 171-182 [253] relativity, photoelectric effect, Einstein, work of Albert Einstein appraised at 70 1949 Mar. p. 52-55 gravity, inertia, Galilean relativity, Einstein, frames of reference, philosophy of science, identity of inertia and gravity 1957 Feb. p. 99-109 Lorentz transformation, Einstein, child development, child's view of reality 1957 Mar. p. 46-51 relativity of motion, Coriolis effect, ocean circulation, atmospheric circulation 1952 May p. 72-78 [839] relativity theory, ether drift, Fitzgerald contraction, Maxwell's equations, Lorentz tranformation, life and work of G. F. Fitzgerald 1953 Nov. p. 93-98 artificial satellite, Mercury, stellar shift, electromagnetic frequency shift, perihelion shift, clock paradox, general relativity, testing Einstein's general theory of relativity 1959 May p. 149-160 Mössbauer effect, atomic clock, resonance absorption, Doppler effect, general relativity tested by atomic clock	
nucleons, high-energy scattering regional planning, local goverment, cities, New York, metropolitan region, central city, suburbs, Northeast Corridor 1965 Sept. p. 134–148 regolith, Apollo project, moon, meteorites, lunar soil, structure and history of moon 1970 Aug. p. 14–23 rehabilitation medicine, spinal cord break 1968 Apr. p. 50 [50] relative isotope abundance, meteorites, solar system, age of solar system 1960 Nov. p. 171–182 [253] relativity, photoelectric effect, Einstein, work of Albert Einstein appraised at 70 1949 Mar. p. 52–55 gravity, inertia, Galilean relativity, Einstein, frames of reference, philosophy of science, identity of inertia and gravity 1957 Feb. p. 99–109 Lorentz transformation, Einstein, child development, child's view of reality 1957 Mar. p. 46–51 relativity of motion, Coriolis effect, ocean circulation, atmospheric circulation 1952 May p. 72–78 [839] relativity theory, ether drift, Fitzgerald contraction, Maxwell's equations, Lorentz transformation, life and work of G. F. Fitzgerald 1953 Nov. p. 93–98 artificial satellite, Mercury, stellar shift, electromagnetic frequency shift, perihelion shift, clock paradox, general relativity, testing Einstein's general theory of relativity 1959 May p. 149–160 Mössbauer effect, atomic clock, resonance absorption, Doppler effect, general relativity tested by atomic clock 1960 Apr. p. 72–80 [271] gravitation, wave-particle duality, quantum mechanics, space-time	
nucleons, high-energy scattering regional planning, local goverment, cities, New York, metropolitan region, central city, suburbs, Northeast Corridor 1965 Sept. p. 134–148 regolith, Apollo project, moon, meteorites, lunar soil, structure and history of moon 1970 Aug. p. 14–23 rehabilitation medicine, spinal cord break 1968 Apr. p. 50 [50] relative isotope abundance, meteorites, solar system, age of solar system 1960 Nov. p. 171–182 [253] relativity, photoelectric effect, Einstein, work of Albert Einstein appraised at 70 1949 Mar. p. 52–55 gravity, inertia, Galilean relativity, Einstein, frames of reference, philosophy of science, identity of inertia and gravity 1957 Feb. p. 99–109 Lorentz transformation, Einstein, child development, child's view of reality 1957 Mar. p. 46–51 relativity of motion, Coriolis effect, ocean circulation, atmospheric circulation 1952 May p. 72–78 [839] relativity theory, ether drift, Fitzgerald contraction, Maxwell's equations, Lorentz transformation, life and work of G. F. Fitzgerald 1953 Nov. p. 93–98 artificial satellite, Mercury, stellar shift, electromagnetic frequency shift, perihelion shift, clock paradox, general relativity, testing Einstein's general theory of relativity 1959 May p. 149–160 Mössbauer effect, atomic clock, resonance absorption, Doppler effect, general relativity tested by atomic clock 1960 Apr. p. 72–80 [271] gravitation, wave-particle duality, quantum mechanics, space-time continuum, uncertainty principle, P.A.M. Dirac view of physics	
nucleons, high-energy scattering regional planning, local goverment, cities, New York, metropolitan region, central city, suburbs, Northeast Corridor 1965 Sept. p. 134–148 regolith, Apollo project, moon, meteorites, lunar soil, structure and history of moon 1970 Aug. p. 14–23 rehabilitation medicine, spinal cord break 1968 Apr. p. 50 [50] relative isotope abundance, meteorites, solar system, age of solar system 1960 Nov. p. 171–182 [253] relativity, photoelectric effect, Einstein, work of Albert Einstein appraised at 70 1949 Mar. p. 52–55 gravity, inertia, Galilean relativity, Einstein, frames of reference, philosophy of science, identity of inertia and gravity 1957 Feb. p. 99–109 Lorentz transformation, Einstein, child development, child's view of reality 1957 Mar. p. 46–51 relativity of motion, Coriolis effect, ocean circulation, atmospheric circulation 1952 May p. 72–78 [839] relativity theory, ether drift, Fitzgerald contraction, Maxwell's equations, Lorentz tranformation, life and work of G. F. Fitzgerald 1953 Nov. p. 93–98 artificial satellite, Mercury, stellar shift, electromagnetic frequency shift, perihelion shift, clock paradox, general relativity, testing Einstein's general theory of relativity 1959 May p. 149–160 Mössbauer effect, atomic clock, resonance absorption, Doppler effect, general relativity tested by atomic clock 1960 Apr. p. 72–80 [271] gravitation, wave-particle duality, quantum mechanics, space-time continuum, uncertainty principle, P.A.M. Dirac view of physics 1963 May p. 45–53 galactic radiation, gravitational waves, gravitational-radiation detector	
nucleons, high-energy scattering regional planning, local goverment, cities, New York, metropolitan region, central city, suburbs, Northeast Corridor 1965 Sept. p. 134–148 regolith, Apollo project, moon, meteorites, lunar soil, structure and history of moon 1970 Aug. p. 14–23 rehabilitation medicine, spinal cord break 1968 Apr. p. 50 [50] relative isotope abundance, meteorites, solar system, age of solar system 1960 Nov. p. 171–182 [253] relativity, photoelectric effect, Einstein, work of Albert Einstein appraised at 70 1949 Mar. p. 52–55 gravity, inertia, Galilean relativity, Einstein, frames of reference, philosophy of science, identity of inertia and gravity 1957 Feb. p. 99–109 Lorentz transformation, Einstein, child development, child's view of reality 1957 Mar. p. 46–51 relativity of motion, Coriolis effect, ocean circulation, atmospheric circulation 1952 May p. 72–78 [839] relativity theory, ether drift, Fitzgerald contraction, Maxwell's equations, Lorentz transformation, life and work of G. F. Fitzgerald 1953 Nov. p. 93–98 artificial satellite, Mercury, stellar shift, electromagnetic frequency shift, perihelion shift, clock paradox, general relativity, testing Einstein's general theory of relativity 1959 May p. 149–160 Mössbauer effect, atomic clock, resonance absorption, Doppler effect, general relativity tested by atomic clock 1960 Apr. p. 72–80 [271] gravitation, wave-particle duality, quantum mechanics, space-time continuum, uncertainty principle, P.A.M. Dirac view of physics 1963 May p. 45–53 galactic radiation, gravitational waves, gravitational-radiation detector 1971 May p. 22–29 black hole, gravitational waves, neutron stars, pulsar. Red Giant stars.	
nucleons, high-energy scattering regional planning, local goverment, cities, New York, metropolitan region, central city, suburbs, Northeast Corridor 1965 Sept. p. 134–148 regolith, Apollo project, moon, meteorites, lunar soil, structure and history of moon 1970 Aug. p. 14–23 rehabilitation medicine, spinal cord break 1968 Apr. p. 50 [50] relative isotope abundance, meteorites, solar system, age of solar system 1960 Nov. p. 171–182 [253] relativity, photoelectric effect, Einstein, work of Albert Einstein appraised at 70 1949 Mar. p. 52–55 gravity, inertia, Galilean relativity, Einstein, frames of reference, philosophy of science, identity of inertia and gravity 1957 Feb. p. 99–109 Lorentz transformation, Einstein, child development, child's view of reality 1957 Mar. p. 46–51 relativity of motion, Coriolis effect, ocean circulation, atmospheric circulation 1952 May p. 72–78 [839] relativity theory, ether drift, Fitzgerald contraction, Maxwell's equations, Lorentz transformation, life and work of G. F. Fitzgerald 1953 Nov. p. 93–98 artificial satellite, Mercury, stellar shift, electromagnetic frequency shift, perihelion shift, clock paradox, general relativity, testing Einstein's general theory of relativity 1959 May p. 149–160 Mössbauer effect, atomic clock, resonance absorption, Doppler effect, general relativity tested by atomic clock 1960 Apr. p. 72–80 [271] gravitation, wave-particle duality, quantum mechanics, space-time continuum, uncertainty principle, P.A.M. Dirac view of physics 1963 May p. 45–53 galactic radiation, gravitational waves, gravitational-radiation detector 1971 May p. 22–29 black hole, gravitational waves, neutron stars, pulsar, Red Giant stars, rotational energy, white dwarfs 1972 May p. 38–46 astrophysics, Eotvos experiment, red shift measurement, gravitation	
nucleons, high-energy scattering regional planning, local goverment, cities, New York, metropolitan region, central city, suburbs, Northeast Corridor 1965 Sept. p. 134–148 regolith, Apollo project, moon, meteorites, lunar soil, structure and history of moon 1970 Aug. p. 14–23 rehabilitation medicine, spinal cord break relative isotope abundance, meteorites, solar system, age of solar system 1960 Nov. p. 171–182 [253] relativity, photoelectric effect, Einstein, work of Albert Einstein appraised at 70 1949 Mar. p. 52–55 gravity, inertia, Galilean relativity, Einstein, frames of reference, philosophy of science, identity of inertia and gravity 1957 Feb. p. 99–109 Lorentz transformation, Einstein, child development, child's view of reality 1957 Mar. p. 46–51 relativity of motion, Coriolis effect, ocean circulation, atmospheric circulation 1952 May p. 72–78 [839] relativity theory, ether drift, Fitzgerald contraction, Maxwell's equations, Lorentz transformation, life and work of G. F. Fitzgerald 1953 Nov. p. 93–98 artificial satellite, Mercury, stellar shift, electromagnetic frequency shift, perihelion shift, clock paradox, general relativity, testing Einstein's general theory of relativity 1959 May p. 149–160 Mössbauer effect, atomic clock, resonance absorption, Doppler effect, general relativity tested by atomic clock 1960 Apr. p. 72–80 [271] gravitation, wave-particle duality, quantum mechanics, space-time continuum, uncertainty principle, P.A.M. Dirac view of physics 1963 May p. 45–53 galactic radiation, gravitational waves, gravitational-radiation detector 1971 May p. 22–29 black hole, gravitational waves, neutron stars, pulsar, Red Giant stars, rotational energy, white dwarfs 1972 May p. 38–46 astrophysics, Eotvos experiment, red shift measurement, gravitation theories assessed	
nucleons, high-energy scattering 1967 Dec. p. 76–91 regional planning, local goverment, cities, New York, metropolitan region, central city, suburbs, Northeast Corridor 1965 Sept. p. 134–148 regolith, Apollo project, moon, meteorites, lunar soil, structure and history of moon 1970 Aug. p. 14–23 rehabilitation medicine, spinal cord break 1968 Apr. p. 50 [50] relative isotope abundance, meteorites, solar system, age of solar system 1960 Nov. p. 171–182 [253] relativity, photoelectric effect, Einstein, work of Albert Einstein appraised at 70 1949 Mar. p. 52–55 gravity, inertia, Galilean relativity, Einstein, frames of reference, philosophy of science, identity of inertia and gravity 1957 Feb. p. 99–109 Lorentz transformation, Einstein, child development, child's view of reality 1957 Mar. p. 46–51 relativity of motion, Coriolis effect, ocean circulation, atmospheric circulation 1952 May p. 72–78 [839] relativity theory, ether drift, Fitzgerald contraction, Maxwell's equations, Lorentz transformation, life and work of G. F. Fitzgerald 1953 Nov. p. 93–98 artificial satellite, Mercury, stellar shift, electromagnetic frequency shift, perihelion shift, clock paradox, general relativity, testing Einstein's general theory of relativity 1959 May p. 149–160 Mössbauer effect, atomic clock, resonance absorption, Doppler effect, general relativity tested by atomic clock 1960 Apr. p. 72–80 [271] gravitation, wave-particle duality, quantum mechanics, space-time continuum, uncertainty principle, P.A.M. Dirac view of physics 1963 May p. 45–53 galactic radiation, gravitational waves, gravitational-radiation detector 1971 May p. 22–29 black hole, gravitational waves, neutron stars, pulsar, Red Giant stars, rotational energy, white dwarfs 1972 May p. 38–46 astrophysics, Eotvos experiment, red shift measurement, gravitation theories assessed 1974 Nov. p. 24–33 gravity constant, interplanetary radar-ranging, lunar occultation, lunar orbit, evidence for decrease of gravitational constant	
nucleons, high-energy scattering regional planning, local goverment, cities, New York, metropolitan region, central city, suburbs, Northeast Corridor 1965 Sept. p. 134–148 regolith, Apollo project, moon, meteorites, lunar soil, structure and history of moon 1970 Aug. p. 14–23 rehabilitation medicine, spinal cord break 1968 Apr. p. 50 [50] relative isotope abundance, meteorites, solar system, age of solar system 1960 Nov. p. 171–182 [253] relativity, photoelectric effect, Einstein, work of Albert Einstein appraised at 70 1949 Mar. p. 52–55 gravity, inertia, Galilean relativity, Einstein, frames of reference, philosophy of science, identity of inertia and gravity 1957 Feb. p. 99–109 Lorentz transformation, Einstein, child development, child's view of reality 1957 Mar. p. 46–51 relativity of motion, Coriolis effect, ocean circulation, atmospheric circulation 1952 May p. 72–78 [839] relativity theory, ether drift, Fitzgerald contraction, Maxwell's equations, Lorentz transformation, life and work of G. F. Fitzgerald 1953 Nov. p. 93–98 artificial satellite, Mercury, stellar shift, electromagnetic frequency shift, perihelion shift, clock paradox, general relativity, testing Einstein's general theory of relativity 1959 May p. 149–160 Mössbauer effect, atomic clock, resonance absorption, Doppler effect, general relativity tested by atomic clock 1960 Apr. p. 72–80 [271] gravitation, wave-particle duality, quantum mechanics, space-time continuum, uncertainty principle, P.A.M. Dirac view of physics 1963 May p. 45–53 galactic radiation, gravitational waves, gravitational-radiation detector 1971 May p. 22–29 black hole, gravitational waves, neutron stars, pulsar, Red Giant stars, rotational energy, white dwarfs 1972 May p. 38–46 astrophysics, Eotvos experiment, red shift measurement, gravitation theories assessed 1974 Nov. p. 24–33 gravity constant, interplanetary radar-ranging, lunar occultation lunar	

```
black hole, gravitational fields, quantum mechanics, event horizon
                                                  1977 Jan. p. 34-40 [349]
                                                           1960 July p. 74
  optics, implications of Fitzgerald contraction
  see also: general relativity, special relativity, Einstein Galilean relativity
relay computers, computer technology, digital computer, analogue
    computer, binary arithmetic, logic, automatic control, computer
    memory, control systems, status of 'mathematical machines'
                                                       1949 Apr. p. 28-39
releaser stimulus, courtship display, gulls, animal behavior, displacement
                                                      1954 Nov. p. 42-46
     activity, ethology
  ethology, animal behavior, evolution, ritualized behavior, innate
     behavior, evolution of behavioral patterns 1958 Dec. p. 67-78 [412]
  arena behavior, bowerbirds, sexual behavior, animal behavior,
     courtship display, ethology, natural history
                                                1963 Aug. p. 38-46 [1098]
  fruit fly, sexual behavior, courtship song, insect behavior, species
                                                       1970 July p. 84-92
     specificity
reliability analysis, network analysis, nodes and branches, pipelines,
     powergrids, graph theory
                                                      1970 July p. 94-103
religion, Lysenkoism, Lamarck, acquired characteristics, genotype,
     evolution, phenotype, mutation, ostrich calluses, speciation,
     orthodoxy, Darwinism, experiments in acquired characteristics
                                                       1953 Dec. p. 92-99
  cargo cult, Christianity, cultural anthropology, Melanesian cargo cult
                                                    1959 May p. 117-125
  Elamite culture, ziggurat, Tower of Babel, Biblical archeology, 1000
     B.C., Iran
                                                       1961 Jan. p. 68-76
  Darwinism, evolution, Scopes trial, science teaching, creationism,
     antievolution laws in U.S.
                                                       1969 Feb. p. 15-21
                                                       1973 Jan. p. 80-87
  Dead Sea scrolls, Gnostic library, Judaism
  science teaching, evolution, curriculum reform, Darwinism,
     creationism, Bible, high school, Man, a Course of Study, biological
     sciences curriculum study
                                                       1976 Apr. p. 33-39
religious persecution, blood typing, Judaism, racial discrimination, social
     evolution, genetic drift, population genetics, Jewish community of
     Rome
                                                    1957 Mar. p. 118-128
relocation, urban renewal, slums, cities, housing, eminent domain, urban
     planning, U.S. experience with Federal subsidy of urban renewal
                                                    1965 Sept. p. 194-204
REM sleep: rapid-eye-movement sleep
REM sleep, dreams, sleep, electroencephalography, function of dreams
                                                 1960 Nov. p. 82-88 [460]
   dreams, sleep research, electroencephalography, reticular formation,
     brain waves, paradoxical sleep, cat brain, the states of sleep
                                                 1967 Feb. p. 62-72 [504]
remanent magnetism, Earth, geomagnetism, wandering poles, magnetic
     reversals, Earth's magnetism
                                                    1955 Sept. p. 152-162
   continental drift, plate tectonics, ocean floor, island arcs, Wegener
     hypothesis re-stated with new evidence, age of rocks
                                                1963 Apr. p. 86-100 [868]
   mid-Atlantic rift, pillow lava, ocean ridges, sea-floor spreading,
     submersible research craft
                                                 1975 Aug. p. 79-90 [918]
   Earth axis shift
                                                          1955 June p. 52
 remote control, manipulators, robot, feedback, automatic control,
     industrial manipulators
                                                       1964 Oct. p. 88-96
 remote sensing, aerial photography, natural resources, infrared
     photography, multiband camera, remote sensing of natural resources
                                                       1968 Jan. p. 54-69
   moon, lunar exploration, lunar landing sites, manned space flight
                                                 1969 Oct. p. 54-72 [889]
   satellites for resource exploration
                                                          1966 Nov. p. 66
 Renaissance, Vesalius, human anatomy, medical history, his de Humani
      Corporis Fabrica, work of art
                                                      1948 May p. 24-31
   creativity, scientific revolution, Leonardo, philosophy of science,
     introduction to single-topic issue on innovation in science
                                                      1958 Sept. p. 58-65
   scientific revolution, Industrial Revolution, human evolution,
      interaction of science and technology, 13th c. to 20th c.
                                                    1960 Sept. p. 173-190
 Renaissance paintings, projective geometry, Leonardo, Durer, Desargue's
      theorem, Pascal's theorem, mathematics, projective geometry as
      systematized by Poncelet and Klein
                                                       1955 Jan. p. 80-86
 Renaissance science, atomic theory, Greek science, science history,
      Boscovich, Lucretius, forces between atoms
                                                    1970 May p. 116-122
 Renaissance technology, Bruegel the Elder, technology, glimpses of
      practical knowledge at work 400 years ago
                                             1978 Mar. p. 134-140 [3003]
```

Renshaw cell, central nervous system, reflex arc, neu	romuscular control	tor idential to at a
muscle contraction, herve inhibition interneuro	n, motor neuron	
stretch tenex, synapse	1966 May p. 102-11	one gy, not water, sun can supply most of the 30 percent of fuel
reduces, intective to plants and mammals	1063 Aug - 6	onergy consumed in domestic heating that some a care
representative government, reapportionment, redistri	icting, elections.	
computer applications, gerrymander	1965 Nov n 20 2	coherent radiation, energy levels, quantum jumps, quantum
repressor molecules, phagocytosis, gene expression, o	Deraint-represent	tochnology distributed, foundation of maser, faser
system, fac repressor, lambda repressor, isolation	n of two gene	Mossbauer officer automicinal 1948 Sept. p. 16-23
repressors; how they work 1979	June o 35 11 170	Mossbauer effect, relativity theory, atomic clock, Doppler effect,
reproduction, insect behavior, social insect, army ant	ants, comparative	
psychology, leedback, pheromones, trophallaxis	natural history	molecular beam, electron theory, atomic radiation, coherent radiation,
philosophy of science, anthronomorphism	1948 June - 16 1	gas molecules, nuclear magnetic resonance, Stern-Getlach
bacteriophage, genetics, tracer experiments, DNA,	arotein cont	
	1953 May p. 36-39	photoelectric effect, color, reflection, refraction, light, photon, electron,
virus, life cycle, bacteriophage, provirus	1954 Mar. p. 34-3	1700 3501, 0, 00-11
contraception, birth control, ovulation, nidation, fe	rtilization	
, , , , , , , , , , , , , , , , , , , ,	1954 Apr. p. 31-34	energy physics, liquid-drop model, charge exchange, spin-orbit force,
animal behavior, population control, territorial beh	avior homeostatic	
population controls 1964	Aug. p. 68-74 [192]	high-energy physics, Regge poles, group theory, temporary associations
mosquitoes, yellow fever, sexual behavior, eggs, lar	vae Aedes Aeami	
1	968 Apr. p. 108-116	high-energy physics, baryons, mesons, 'strong' force, 'eightfold way',
biological clock, malaria, Plasmodium, parasitism,	rometoruta	The state of the s
mosquitoes 1970 Iur	se p. 123–131 [1181]	1964 Feb. p. 74-93 [296]
fetus as transplant, histocompatability, immune res	nonea	
immunological privilege, trophoblast, nidation, p	ponac, Iacenta	resonance vibration, earthquakes, seismology, seismic waves, Earth's free
manaragian privilego, trophodiust, tuddion, p		oscillations 1965 Nov. p. 28-37
see also: sexual reproduction	1974 Apr. p. 36-46	
reproductive behavior, see: arena behavior, lek behavio	r and the like	acoustic oscillation 1968 Dec. p. 94-103
courtship display	n and the like,	resonators, quantum mechanics, Planck, science history, spectroscopy,
reproductive physiology, birth control, sex hormones, h	uman nomulation	black body, Einstein, photoelectric effect, Compton effect, quantum
	1974 Sept. p. 52-62	jumps 1952 Mar. p. 47-54 [205] resource management, ground water, artesian well, piezometric surface,
reptile, dinosaurs, mammalian evolution, paleontology	isia ucpi, p, sz-oz. i iharansida	
	1949 Mar. p. 40-43	water table, water cycle, runoff, ground water in water-resource management 1950 Nov. p. 14-19 [818]
comparative physiology, marine birds, adaptation, s	alt excreting glands	management 1950 Nov. p. 14-19 [818] economic development, industrialization, tropical rain forest,
	159 Jan. p. 109–116	subsistence economy, tropical rain forest, urbanization, Brazil,
behavioral adaptation, 'cold-blooded' animals, pigm		uneven national development 1963 Sept. p. 208-220
thermoregulation, lizard, behavioral thermoregula		pollution control, international cooperation, jurisdictional disputes,
	59 Apr. p. 105-120	oceanography, international competition and cooperation
animal behavior, crocodile, Nile crocodile, parental		1969 Sept. p. 218-234 [888]
	76 Apr. p. 114-124	forestry, nitrogen fixation, ecosystem, runoff, erosion, watershed,
earless monitor of Borneo	1961 July p. 76	deforestation, deforestation experiment 1970 Oct. p. 92-101 [1202]
reptile evolution, continental drift, speciation, radiation		gene manipulation, grafting techniques, forestry, Southern pine, tree
convergence, Gondwanaland, Laurasia, mammalia		farming, seed-orchard concept 1971 Nov. p. 94-103
supercontinent breakup and animal diversification		resource prospecting. Amazon, tropical rain forest, developing countries,
1969 \	Aar. p. 54-64 [877]	economic planning, forest management, mineral resources, electric
research and development, science education, U.S.S.R.,	science funding,	power, the Amazon frontier 1948 May p. 11-19
	969 June p. 19-29	Resources for the Future', Paley report 1952 Sept. p. 69
research funding, particle accelerator, U.S.S.R., high-en	ergy physics	respiration, enzymes, catalysis, digestion, fermentation, lock-and-key
1	956 Aug. p. 29-35	theory, science history 1948 Dec. p. 28-39
N.S.F., peer review, university science, science policy,		physiology, nervous system, endocrine system, nerve impulse, muscle contraction, science, physiology 1900-1950 1950 Sept. p. 71-76
P	Oct. p. 34-41 [698]	contraction, science, physiology 1900-1950 1950 Sept. p. 71-76
U.S. Federal budget 1956	1956 Mar. p. 49	chlorophyll, tetrapyrrole ring, hemoglobin, cytochrome, enzymes, tetrapyrrole virtuosity 1958 Aug. p. 77-81
U.S. Federal 'mission-oriented' agencies	1956 Nov. p. 61	tetrapyrrole virtuosity 1958 Aug. p. 71-81 lung, neonatal physiology, breathing, first breath of newborn
at University of California	1957 May p. 62	lang, neonatat physiology, breathing, that breath of headon.
U.S. Department of Science and Technology proposed	1958 Jan. p. 44	goodno lily insect attractant. Arum family, carmyorous plants
increase for National Science Foundation	1958 Mar. p. 52	1966 July p. 80-88
U.S. Federal appropriations	1958 Sept. p. 85	bacterial toxin, plague bacillus, Black Death, electron transport,
U.S. Federal budget 1960	1959 Jan. p. 62	mechanism of death by plague toxin 1969 Mar. p. 92-100
U.S. Federal Council for Science and Technology	1959 Feb. p. 59	aquatic insect, insect eggshell, adaptation, entomology, selective
U.S. Federal budget 1960	1959 Mar. p. 60	nermeability of insect 1970 Aug. p. 84-91 [1181]
U.S. Federal budget 1961	1960 Feb. p. 68	solar radiation, photosynthesis, biosphere, agricultural ecosystem,
N.Y. City Health Research Council	1960 Aug. p. 77	climax ecosystem, energy cycle, ecosystem, food chain, biosphere
11 C support of university research	1961 Jan. p. 78	energy cycle 1970 Sept. p. 64-74 [1190]
U.S. National Aeronautics and Space Administration		biosphere, energy cycle, photosynthesis, power, radiation energy, solar radiation, terrestrial radiation 1971 Sept. p. 88-100 [664]
0,0,11440	1961 Apr. p. 76	radiation, terrestrial radiation 1971 Sept. p. 88-100 [664] cytochrome C, protein evolution, protein structure, ammo-acid
international co-operation	1962 July p. 74	substitution, mutation rate, 1.2 billion year record of evolution.
government-university-scientist relations	1964 May p. 58	ancient protein 1972 Apr. p. 58-72 [1245]
	ina Enangual	water breathing rate 1963 Apr. p. 83
	55 Oct. p. 80-86	respiratory air sacs, bird flight, aerodynamics, weight-strength ratio, bone
	1956 July p. 50	armoure hirde as flying machines 1900 Mar. D. 88-70
pharmacology, synthesis	1977 Jan. p. 46	ne nimton; are as change, asphyxia, breathing, alving brids circul, using
reservoir, dam safety, earthquake zones	ites, public	mammale diving hirds hibernation, oxygen storage, selective
reservoir dam-building, New World archeology, Parties	8 Dec. p. 12-17	ischemia, human physiology, redistribution of oxygenated blood and
works, crisis in U.S. archeology	ement, water	'master switch of life' 1963 Dec. p. 92-196
reservoir recharging, ground water, 1977 Ma	y p. 21-27 [924]	
cycle		

A 760

espiratory infection, histoplasmosis, fungal infection, airborne infection,	retirement, age 65 questioned 1954 Feb p 4
epidemiology, coccidioidomycosis 1948 June p 12–15	idle and happy 1956 Feb p 6
estriction enzymes, bacteria, proteolysis, infection, viral DNA, DNA	retroactive inhibition, learning, forgetting, proactive inhibition, recall, interference theory 1967 Oct p 117–124 [509
sequence, bacterial recognition and rejection of exotic DNA 1970 Jan p 88-102 [1167]	retrolental fibroplasia, premature infants, epidemiology, oxygen, infant
ete mirabile, heat exchange, mackerel shark, thermoregulation,	mortality, blindness, 'blind babies' 1955 Dec p 40-4
comparative physiology, tuna, warm-bodied fishes	blindness, neonatal disorder, medical ethics, premature infants,
1973 Feb p 36-44 [1266]	medical researches, 'blind babies' 1977 June p 100–107 [1361
counter-current exchange, heat conservation, physiology, swim	reversible reactions, time reversal, symmetry, probability against it in macroscopic world 1956 Aug p 107–11-
bladder, kidney, gill, physics of a physiological invention 1957 Apr p 96	macroscopic world 1956 Aug p 107–11- reversing figures, depth reversal, Necker cube, optical illusion, visual
reticular formation, central nervous system, medulla, brain, perception,	perception 1971 Dec p 62–71 [540
motor reflex, neurophysiology, attention and orienting mechanism in	Rh: Rhesus factor
brain 1957 May p 54–60 [66]	Rh factor, human evolution, Rh negative gene, Ro gene, blood typing,
dreams, sleep research, electroencephalography, brain waves,	race 1951 Nov p 22–23
paradoxical sleep, REM sleep, cat brain, the states of sleep 1967 Feb p 62-72 [504]	blood groups, immune response, Rh incompatibility, prevention of 'Rhesus' babies 1968 Nov p 46-52 [1126
retina, eye, rod cells, cone cells, ins, optogram, rhodopsin, camera,	antibiotic resistance, bacteria, infectious disease, drug resistance, gene
anatomy and physiology of the eye, camera as metaphor	mutation, plasmids, bacterial conjugation 1973 Apr p 18-27 [1269
1950 Aug p 32–41 [46]	Rh incompatibility, blood groups, immune response, Rh factor,
visual perception, visual scanning, visual cortex, how we see straight	prevention of 'Rhesus' babies 1968 Nov p 46-52 [1126
lines 1960 June p 121–129 vision, visual perception, learning, Gestalt psychology, stabilized	anti-D antibody 1966 Mar p 58 Rh negative gene, Rh factor, human evolution, Ro gene, blood typing,
retinal images, evidence for perceptual theories	race 1951 Nov p 22–25
1961 June p 72–78 [466]	rheology, flow of matter, Hooke body, Newton body, St Venant body,
cell communication, central nervous system, nerve conduction,	how solids flow 1959 Dec p 122–138 [268]
ganglion reflexes, neuroreceptors, nerve impulse, neurotransmitters,	rhesus embryo, poliomyelitis virus, tissue culture, serial passage, polio vaccine, tissue culture of virus opens way to vaccine
neural synapse, cytology, neuromuscular synapse, how cells communicate 1961 Sept p 209–220 [98]	1952 Nov p 26–29
cataract, eye lens, etiology, course and treatment of cataract	Rhesus factor, see Rh
1962 Mar p 106–114	rhesus monkeys, learning, thinking, comparative psychology, 'learning to
eye, vision, 'floaters', nature and origin of 'floaters'	think' 1949 Aug p 36–39 [415]
1962 June p 119–127 eye, visual cortex, optic nerve, vision, organization of sight into vision	сипоsity, problem solving, genetic traits, animal behavior 1954 Feb р 70–75
1963 Nov p 54–62 [168]	behavioral psychology, emotional deprivation, maternal deprivation,
amphibian, frog, color vision, retinal image-processing, visual	surrogate mother, infant monkey 'love' 1959 June p 68-74 [429]
perception, retinal processing of visual sensation	social deprivation, comparative psychology, maternal deprivation, peer
1964 Mar p 110–119 color vision, cone cells, pigments, ganglion cells, spectrophotometry,	group, experiments in social deprivation
three-color receptor system 1964 Dec p 48–56 [197]	1962 Nov p 136–146 [473] social behavior, urban monkeys, learning, urban and forest monkeys in
vision, photographic emulsion, vidicon, television camera,	India 1969 July p 108-115 [523]
photochemistry, light, image detection, electronic camera	rheumatic-fever, Aschoff bodies, streptococcus, infection, immune
1968 Sept p 110–117 perception, vision, retinal image-processing, visual perception, visual-	response, heart disease, hypersensitivity 1965 Dec p 66–74
cell types 1969 May p 104–114 [1143]	rheumatoid arthritis, allergic reaction, autosensitivity, poison ivy, dermatitis, multiple sclerosis, delayed hypersensitivity
receptor cells, rod cells, cone cells, retinal sensitivity, retinal	1960 Apr p 129–137
information processing maintains high-contrast image over broad	Rhind papyrus, mathematics, Egyptian civilization 1952 Aug p 24-27
range of illumination 1973 Jan p 70-79 nerve circuits, dendrites, synapse, postsynaptic potential, olfactory	rhinoceros, animal husbandry, antelope, giraffe, elephant, buffalo,
bulb, microcircuits in the nervous system	hippopotamus, wildlife husbandry in Africa 1960 Nov p 123–134 rhinoceros in Asia, days seem numbered 1953 Jan p 38
1978 Feb p 92–103 [1380]	rhinoceros in Asia, days seem numbered 1953 Jan p 38 rhizobium, algae, bacteria, legumes, nitrogen fixation, nitrogenase, genetic
retina cells, vision, photosynthesis, photoperiodicity, visual pigments,	engineering, Haber process, legumes, symbiosis, nitrogenase,
phytochrome, chlorophyll, plant growth, light and living matter	biological nitrogen fixation 1977 Mar p. 68-81
1968 Sept p 174-186 rehnal image-processing, amphibian, frog, color vision, retina, visual	Rhodian sea law, shipbuilding, Byzantine shipping, underwater archeology, shipwreck of 17th century 1971 Aug p 22-33
perception, retinal processing of visual sensation	archeology, shipwreck of 17th century 1971 Aug p 22–33 rhodopsin, eye, rod cells, cone cells, retina, iris, optogram, camera,
1964 Mar p 110-119	anatomy and physiology of the eye, camera as metaphor
perception, vision, visual perception, retina, visual-cell types 1969 May p 104-114 [1143]	1950 Aug p. 32-41 [46]
color blindness, cone cells, fovea, genetic disease, visual pigments	electroretinography, vitamin A deficiency, night blindness, opsin, bright-light exposure, retinitis pigmentosa, night blindness in rat,
1975 Mar p 64–74 [1317]	action of vit A on eye 1966 Oct p 78–84 [1053]
retinal orientation, disoriented figures, form perception, visual perception	vision, visual pigments, opsin, isomerism, vitamin A
1974 Jan p 78-85 [557] retinal pigments, eye, vision, color perception, cone cells, trichromaticity	1967 June p. 64-76 (1075)
implies three cone pigments 1962 Nov p 120–132 [139]	bacteria, cell membrane, halobacteria, photosynthesis, salt-loving
retinal sensitivity, retina, receptor cells, rod cells, cone cells, retinal	bacteria 1976 June p 38-46 [1340] rhythm, teaching machine, operant conditioning, inductive reasoning,
information processing maintains high-contrast image over broad range of illumination 1973 Jan p. 70-79	education, self-teaching by small, rigorous steps
range of illumination 1973 Jan p 70-79 retinene, photosynthesis, chlorophyll, carotene, vision, photobiology,	1961 Nov. p. 90, 102
phototropism, bioluminescence, sunlight, life and light	nboflavin synthesis, baking, yeast, brewing, cryptococcal meningitis, fermentation, cell physiology, yeasts, useful and noxious
1959 Oct p. 92-109	1060 Esh = 126 144
'retinex' theory, color and illumination, color vision, reflection, visual perception, visual pigments, 'color Mondrian' experiment	indifficultiese, insulin, protein structure, amino-acid sequence, and
1977 Dec. p. 108_128 [1202]	action, myoglobin, resolution of atomic structure of three molecules
retuntis pigmentosa, electroretinography, vitamin A deficiency, night	1961 Feb p 81-92 [80] nbonuclease synthesis, solid-phase and carboxyanhydride methods
olindness, opsin, rhodopsin, bright-light exposure, night blindness in	
rat, action of vit A on eye 1966 Oct p 78-84 [1053]	nbonucleic acid, see RNA 1969 Mar p 46

. The state of the	
ribosomal RNA, hybrid cells, DNA, RNA, gene transcription, gene complement, density-gradient centrifugation, DNA-RNA	risk estimation, electromagnetic spectrum, irradiation standards,
hybridization experiments 1964 May a	inicrowave diodes, microwave radiation, technology assessment
ribosome, microsome, protein synthesis, RNA, cytology, recognition	
ribosome as site of protein synthesis 1958 Mar n 118-12	d [52]
protein synthesis, DNA, mRNA, tRNA, nucleus, chromosome,	ritualized behavior, ethology, animal behavior evolution, innate behavior
cytology, how cells make molecules 1961 Sept p 74-8 mRNA, tRNA, genetic code, DNA, protein synthesis, genetic code	
elucidated, amino acid 'dictionary' 1963 Mar p 80-94	1958 Dec. n. 67-78 ts/12
DNA, polyribosomes, protein synthesis, RNA 1963 Dec. p.	in_53
antibiotics, protein synthesis, streptomycin, genetic code, DNA R	1967 Apr p 84-94 NA, riverbed, meanders, sine-generated curve, hydraulics, least-work path for
mutation, 'misreadings' induced by antibiotic alterations of	river 1966 June n. 60-70 (869)
ribosomes 1966 Apr p 102	rivers, climatic change, water erosion, drainage patterns, river evolution
amino acids, protein synthesis, formylmethionine, mRNA, tRNA, initiation of protein synthesis 1968 Jan p 36-42 [1967 Apr n 84_91
DNA transcription, electron microscopy, gene action visualized,	
mRNA 1973 Mar n 34-42 I	RNA, heredity, chromosome, DNA, nucleoproteins, protein synthesis DNA identified as agent of heredity 1953 Feb p 47-57 [28]
UNA fractionation, gene isolation, ribosomal RNA-coding genes	genetic code, codon, amino-acid pairing, DNA, Gamow proposes
1973 Aug p 20-29 [1	278) triplet codon 1955 Oct p 70-78
cell structure, neutron-beam-scattering technique, protein synthesis	The state of the s
template action in protein assembly 1961 June 1	
mechanism of protein synthesis 1963 Feb 1	
crystalline ribosome arrays in chick embryos 1967 Sept p	
hybrid ribosomes 1968 Nov r	
cell organelle, RNA, protein synthesis, structure of the ribosome	protein synthesis, DNA, recognition of RNA as transcriber of DNA
1969 Oct p 28 [1 rice, economic development, irrigation, Mekong river, monsoons, floo	
hydro-engineering, Mekong river plan, United Nations	ds, cell nucleus, cytopiasm, cell organelle, chromosome, cell physiology, DNA, endoplasmic reticulum, cytology, nuclear control of cell
1963 Apr p 49	
China, economic development, hybrid wheat, agricultural technolog	y, glial cells, learning theory, memory, neurones, brain, molecular theory
hybrid rice, irrigation, livestock 1975 June p 13	
'green revolution', India, food and agriculture, technology transfer, monsoons, irrigation, fertilizers, agronomy, wheat, hybrid crop	DNA, polyribosomes, protein synthesis, ribosome 1963 Dec. p 44-53 hybrid cells, DNA, ribosomal RNA, gene transcription gene
plants 1976 Sept p 154	
agronomy, crop yields, plant breeding, wheat, maize, food and	hybridization experiments 1964 May p 48-56
agriculture, plant genetics 1976 Sept p 180-	
see also artificial rice	fragment assembly, first nucleotide sequence 1966 Feb p 30-39 [1033]
ricinine, alkaloids, plant physiology, morphine, strychnine, 'hemlock', physostigmine, caffeine, conune, quinine, cocaine, LSD, human	antibiotics, protein synthesis, streptomycin, genetic code, ribosome,
toxins in plant physiology 1959 July p 113–121 [10	87) DNA muration, 'misreadings' induced by antibiotic alterations of
rickets, air pollution, vitamin D, ultraviolet radiation, osteogenesis,	ribosomes 1966 Apr p 102-109
calcium metabolism, epidemiology, sunlight	amino acids, DNA, protein synthesis, genetic code, mutation molecular biology, triplets, anticodon, ribosomes, triplets, wobble
1970 Dec p 76-91 [12] rickettsiae, typhus, chick-embryo culture, Rocky Mountain spotted few	hypothesis 1966 Oct p 55-62 [1052]
1955 Jan p 74-	79 DNA genetic code, poliomyelitis virus, protein synthesis, virus
bacteria, chemical weapons, biological weapons, Vietnam war, arms	multiplication, virus structure 1975 May p 24-31
race, CS gas, virus disease, tear gas, herbicide, chemical-biological	role in protein synthesis 1956 Mar p 57 161 structure and function 1962 Aug p 53
warfare 1970 May p 15-25 [117 rickettsial disease, antibiotics, aureomycin, virus disease, bacterial	replicated in test tube 1965 Nov p 50
infection, 'broad spectrum' antibiotic 1949 Apr p 18-	23 interferon induction 1969 Jan p 46
ridged fields, Arawak Indians, earthworks, flood plain, agricultural	rahosome, cell organelle, protein synthesis, structure of the ribosome
system. New World archeology 1967 July p 92-19	
Riemann, curvature of space, non-Euclidian geometry, general relativity 1954 Nov p 80-8	see also mRNA, tRNA RNA-DNA 'reverse' transfer, DNA, gene mutation, cancer virus, DNA
Rift Valley, Afar triangle, Red Sea, guyot, Gulf of Aden, sea-floor	polymerase RNA-directed DNA polymerase
spreading, continental drift, sea-floor spreading opens new ocean	1972 Jan p 24-33 [1233]
1970 Feb p 32-40 [89	RNA function, protein template 1955 July p 34 RNA molecule, genetic engineering, frog eggs, gene expression
Righi-Leduc effect, Ettingshausen effect, Hall effect, Nernst effect, galvanomagnetism, thermomagnetism, science history, industrial	bemoslobin, mRNA 1976 Aug p 60-71 [1343]
technology, technological applications of 19th c discoveries	RNA nucleotides, genetic code, tobacco mosaic virus, protein synthesis
1901 Dec D 124-13	
right-hemisphere functions, brain hemispheres, cerebral dominance, left-	amino acid changes 1964 Oct p 46-34 [199] RNA synthesis, DNA, chromosome puffs, insect chromosome hormonal
hemisphere functions, music perception, auditory perception, visual	t anduction gene regulation 1964 Apr p 50-58 [189]
perception metal ions sequestering, porphyrin ring,	antibody production, antigen-antibody reaction, lymphocytes, immune
accompanies compounds, metal-poisoning annace, commen	response, clonal selection theory 1964 Dcc p 106-115 [199] actinomyosin, ecdysone cortisone, insulin, estrogens, gene activation.
	aldosterone, growth hormone. ACTH, thyroxin michanism of
ring dove, avian reproduction, breeding cycle, sexual ochiavior, normalist	harmona action 1903 June p 36-43 [1013]
fertilization	RNA virus, cancer virus, Rous sarcoma virus, cancer virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus
ring molecules, catenane, therman topology and knotting of ring molecules, molecular structure, linking and knotting of ring 1962 Nov p 94-102 [286]	
	1967 Sept p 193
molecules rip channels, beaches, sand dune, sand bar, berm, ocean, surf, rip channels, beaches, sand dune, sand bar, berm, ocean, surf, 1960 Aug. p. 80-94 [845]	Ro gene, Rh factor, human evolution, Rh negative gene blood typing,
conservation of beaches	race (351 Hdv p 22-23
mparian sites, New World archeology, public works 1948 Dec. p. 12-17	

building, crisis in U S archeology

oad building, Inca civilization, pre-Columbian engineering 1952 July p 17–21	Romania, pictograph, Vinca culture, writing, Tartaria tablets, Sumer, cultural diffusion, Sumerian writing 1968 May p 30–37
automobiles, wheel bounce, highway engineering, 'corrugated' road	roof, architectural engineering, vault, Gothic arch, Romanesque barrel
surface, 'washboard' road surface 1963 Jan p 128–136	vault, Byzantine dome, building construction, vaulting technics 1961 Nov p 144-154
obot, manipulators, remote control, feedback, automatic control, industrial manipulators 1964 Oct p 88–96	room temperature and organic, semiconductor 1960 June p 82
assembly, labor-saving devices, computer applications, manufacturing	root pressure, Hales, plants, sap circulation, shoot tension, science
productivity, programmable robot for product assembly	history, Stephen Hales, founder of biophysics 1952 Oct p 78-82
1978 Feb p 62-74 [929]	plant nutrition, plant roots, soil minerals, transport mechanisms
obot lander, moon surface, soil, Surveyor spacecraft, surface sampler	1973 May p 48–58 [1271]
robot spacecraft, moon, manned space flight 1967 Nov p 34–43	root words, Indo-European language, linguistics, comparative grammar, reconstructing genealogy of Indo-European languages
robot spacecraft, moon, manned space flight 1960 May p 61-69 robot systems, automatic control, computer technology, instructable	1958 Oct p 63–74
machines, servomechanisms 1976 Feb p 76–86B	rot, antibiotics, plant disease, blight, smut, wilt disease, mold, mildew
rock borers, excavating machines, tunneling, earth-moving, surface	1955 June p 82–91
mining, mining 1967 Nov p 74–85	rotary engine, automobile engines, Wankel engine, Tschudi engine
rock drawings, Paleolithic culture, petroglyphs, Siberia, Paleolithic, Neolithic periods 1969 Aug p 74-82 [649]	1969 Feb p 90–99 air pollution, automobile engines, Wankel engine, auto engineering
Neolithic periods 1969 Aug p 74-82 [649] rock paintings, Bronze Age, Iron age culture, Camunian culture,	1972 Aug p 14–23
Mycenaean civilization, Italian rock carvings 1960 Jan p 52–59	rotary-wing aircraft, helicopters, hovering flight, ram jet
Rockefeller Institute, Bronk is president 1953 Aug p 41	1955 Jan p 36-40
rocket, interplanetary navigation, spacecraft, orbital motion,	rotating chemical reactions, chemical reaction, computer modeling,
communication technology, navigation, technology of space navigation 1960 Mar p 64-73	oscillating reagents, non linear reactions 1974 June p 82–95 rotating systems, eddies, negative viscosity, turbulence, wind, nonuniform
navigation 1960 Mar p 64-73 Aerobee demonstrated 1949 Feb p 28	flows, viscosity 1970 July p 72–80
rocket engine, reaction propulsion, regenerative motor, liquid fuel,	rotation, Sun, solar atmosphere, sunspots, magnetic field, eddies, solar
technology history, status of the technology on eve of space age	atmospheric circulation 1968 Jan p 100–113
1949 May p 30–39	rotation period, Jupiter, Taylor column, Great Red Spot, planetary
aviation, 'sound barrier' 1953 Oct p 36–41	atmosphere, hydrodynamic explanation vs raft hypothesis 1968 Feb p 74–82
combustion instability, resonant combustion, propellant, acoustic oscillation 1968 Dec p 94–103	rotational energy, black hole, gravitational waves, neutron stars, pulsar,
rocket fuel, hydrazine, Raschig synthesis, reducing agent	relativity theory, Red Giant stars, white dwarfs 1972 May p 38-46
1953 July p 30–33	black hole, gravitational energy, pulsar, quasars, radiation in universe
rocket launcher, artificial satellite, orbital motion, telemetry, plans for	1973 Feb p 98–105
US 10-pound (pre-Sputnik) satellite 1956 Nov p 41-47 nitric oxide 'star' 1956 May p 56	rottfer, aging, life expectancy, experiments in aging, age of mother 1953 Apr p 38–42
jet plane 1957 May p 64	rotor machine, cryptology, code, polyalphabetic systems, cipher, history
rocket nozzle, heat, materials, temperature limits, ablation, turbine	and technology of making and breaking ciphers and codes
bucket, high temperatures materials 1954 Sept p 98–106	1966 July p 38-46
rocket photograph, Earth, Earth from space 1955 Sept p 109-112 Rocky Mountain spotted fever, rickettsiae, typhus, chick-embryo culture	Rous sarcoma virus, cancer virus, cancer virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus
1955 Jan p 74–79	1964 June p 46–52 [185]
tick-borne infection increasing 1971 July p 44	Rous-associated virus (RAV) 1963 June p 74
rod cells, eye, cone cells, retina, iris, optogram, rhodopsin, camera,	Rowland, remembered 1976 Sept p 70
anatomy and physiology of the eye, camera as metaphor 1950 Aug p 32-41 [46]	Rowland engine, diffraction grating, spectroscopy, ruling engine, Strong engine, the ultimate machine 1952 June p. 45-54
cone cells, visual cells, autoradiography, protein synthesis, renewal	engine, the ultimate machine 1952 June p 45-54 Royal Navy, white pine, North American forests, King's Broad Arrow,
mechanisms in retinal cells 1970 Oct p 80–91	American Revolution, colonial building 1948 June p 48–53
retina, receptor cells, cone cells, retinal sensitivity, retinal information	Royal Navy robots, excite mutiny 1954 June p 52
processing maintains high-contrast image over broad range of illumination 1973 Jan p 70–79	rubber, from quayule 1952 May p 37
illumination 1973 Jan p 70–79 rodent, caribou, cold adaptation, moose, polar ecology, animal	synthetic hevea, man-made natural rubber 1955 Dec p 50 rubber synthesis, butadiene, isoprene, vulcanization, latex, elastomers,
adaptation to Arctic 1960 Jan. p 60-68	synthetic rubber, molecular structure 1956 Nov p 74–88
roentgen ray, physical properties 1960 June p 86	rubella, cleft palate, congenital anomalies, fetal injury, embryonic
roentgenology, cancer therapy, isotopes, X-ray, radiotherapy, ionizing	development, teratogenesis, teratology 1957 Oct p 109-116
radiation, dosimetry, nuclear medicine, radiation use in medicine 1959 Sept p 164-176	congenital anomalies, purpura, virus disease, vaccine, teratogenesis, pregnancy, congenital rubella
roller bearing, very-low-friction device 1967 Dec p 58	pregnancy, congenital rubella 1966 July p 30–37 virus isolated 1962 Sept p 104
Roman Britain, urban archeology, Winchester 1974 May p 32–43	measies vaccine, vaccine sougt 1963 May p 74
coins, counterfeiting, numismatics 1974 Dec p 120–130 Britain, frontier life, Hadrian's Wall, Vindolanda site	safe vaccine reported 1966 June p 55
1977 Feb p 39-46 [692]	vaccines ready 1969 June p 54 autism, measles implicated in autism 1972 Dec. p. 42
Roman civilization, Pompen, Vesuvius eruption, two-thirds of the city's	ruling engine, diffraction grating, spectroscopy. Strong engine Rowland
105,000 acres 1958 Apr p 68–78	engine, the ultimate machine 1052 June n 45 54
Roman colony, Classical archeology, Carthage, archeological 'rescue' campaign 1978 Jan p 110-120 [704]	Rumord, Carnot, Joule, science history, heat, pioneers in the theory of
Roman empire, Classical archeology, commerce, underwater archeology,	neat 1954 Sept. p 60-61 ballistics, calonic heat theory, science history, oven, heat as motion,
amphora 1954 Nov p 98–104	Benjamin Thomson, biography 1060 Oct p. 159 169
life expectancy in 100-200 A D 1960 Mar p 94	ruminants, metabolism, symbiosis, cellulose digestion, apperation
Roman glass, Egyptian glass, glass, glassmakers, faience, chemical and physical analysis of ancient glass 1963 Nov p 120–130	metabolism, fermentation, how cows digest grass
Roman technology, aqueducts, siphons, water-supply system of ancient	agricultural economics, forage crops, grasses, agronomy, hay, legumes,
Kome 1978 May n 154 161 (2000)	nvestock reed, snage, Knizobium bacteria 1976 Feb p 60 75
Romanesque barrel vault, architectural engineering, roof, vault, Gothic arch, Byzantine dome, building construction, vaulting technics	sleepless? 1955 Sept p 78
z deme, building construction, vaniting technics	
1961 Nov. p 144-154	

anatomy, how animals run 1960 May p. 148–13	Salmon, fish migration, homing behavior animat
minning dynamics, appears, saled at a	salmon, fish migration, homing behavior, animal navigation, chemotaxis
running dynamics, sports, athletics, foot pressure measured	metabolism, fish migration, swimming, laboratory observation of
1967 Mar. p. 5	energy production by salmon 1965 Aug. p. 80–85 [1019]
running records, sports, athletics, forecasting by extrapolation	how they home
rupoff ground water actories with 1952 Aug. p. 52-5	A col- 1-1. 1251 Sept. p. 30
runoff, ground water, artesian well, piezometric surface, water table,	solt Coming and fall 1 1 a.c.
water cycle, resource management, ground water in water-resource	evaporite minerals fossil record Clamps Challenger
management 1950 Nov. p. 14-19 [818	Miocene desiccation, Mediterranean as desert
eutrophication, water pollution, fisheries, fish population, Great Lakes	
sil, U.S. Oleat Lakes aging 1066 Nov 5 04 104 11064	SALT: Strategic Arms Limitation Talks
water cycle, transpiration, evaporation, agricultural system, ocean	CATT ADM MIDNE
precipitation, biosphere, photosynthesis 1970 Sept. p. 98-108 [119]	strategy, dynamics, instability of arms race
lorestry, hitrogen lixation, ecosystem resource management erosion	1969 Apr. p. 15–25 [642]
watersned, deforestation, deforestation experiment	atomic weapons, arms race MIRV counterforce strategy mutual
1970 Oct. p. 92–101 [1202	assured destruction, MIRV, as key to SALT negotiations
rural poverty, education, poverty, group behavior, community action,	1970 Jan. p. 19–29 [654]
emotional illness, social psychology, study of community	ABM systems, arms race ICRM MIRV atomic weapons atomic test
regeneration 1965 May p. 21–27 [634	ban, strategic weapons, prospects for freeze on numbers and
Russell's paradox, mathematics, set theory, non-Cantorian sets, Cantor,	qualitative improvement of weapons 1971 Jan n 15-25
non-Euclidian geometry, axiom of choice 1967 Dec. p. 104-116	arms control, antisubmarine warfare, missile submarines, mutual
rust, technetium, corrosion, oxidation, studies in corrosion	assured destruction, SLBM, sonar, acoustic detection
1956 May p. 35–39	1972 July p. 14-25 [345]
Rutherford-Soddy theory, atomic theory, element transmutation, science	arms control, satellite, strategic weapons, verification technology,
history, radioactivity, radioactive decay transmutation, reception of	'national technical means of verification' 1973 Feb. p. 14-25 [346]
'newer alchemy' 1966 Aug. p. 88–94	manual superior of the superio
Rydberg constant, physical constants, measurement, velocity of light,	antiaircraft sytems 1973 Aug. p. 11–19
electron mass, particle charge, least-squares method, standards of	mutual assured destruction, counterforce strategy, military
measurement, Planck's constant 1970 Oct. p. 62~78 [337]	expenditures, arms race, MIRV, MARV 1974 May p. 20-31
	India as atomic power, nuclear nonproliferation treaty, 'nuclear club',
	atomic test ban 1975 Apr. p. 18–33
ζ'	arms race, cruise missiles, strategic weapons, tactical weapons, control
J	systems, navigation systems 1977 Feb. p. 20-29 [691] arms control, cruise missiles, bombers, strategic weapons, Carter
S-matrix theory, mathematics, physical sciences, group theory, 'eightfold	administration 'comprehensive proposal' for U.SU.S.S.R. force
way', field theory, mathematics in physics 1964 Sept. p. 128–146	levels 1977 Aug. p. 24–31 [696]
saccades, vision, eye movement, visual attention, fovea, human eye, visual	U.SU.S.S.R. talks planned 1968 Aug. p. 42
fixation, experiments with eye-marker camera	talks begin in Vienna 1970 June p. 46
1968 Aug. p. 88~95 [516]	raise MIRV ceilings 1975 Mar. p. 47
saccules, glycoprotein synthesis, Golgi apparatus, goblet cells, mucus,	salt excretion, diabetes insipidus, thirst, electrolyte balance,
saccules, glycoprotein synthesis, Golgi apparatus, goblet cells, mucus, carbohydrate 1969 Feb. p. 100-107 [1134]	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology,
	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmorecentor theory of thirst. Cannon 'dry mouth' theory
carbohydrate 1969 Feb. p. 100-107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38-42	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76
carbohydrate 1969 Feb. p. 100-107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38-42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88-98
carbohydrate 1969 Feb. p. 100-107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38-42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114-125 [1390]	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98
carbohydrate 1969 Feb. p. 100-107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38-42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114-125 [1390] Sagittarius A, galactic center, Milky Way, quasars, radio source, Seyfert	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88-98 salt particles, meteorology, condensation nuclei, ocean foam, cloud
carbohydrate 1969 Feb. p. 100-107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38-42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114-125 [1390] Sagittarius A, galactic center, Milky Way, quasars, radio source, Seyfert galaxies, spiral galaxies 1974 Apr. p. 66-77	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98 salt particles, meteorology, condensation nuclei, ocean foam, cloud physics, rain, seasalt and rain 1957 Oct. p. 42-47
carbohydrate 1969 Feb. p. 100-107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38-42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114-125 [1390] Sagittarius A, galactic center, Milky Way, quasars, radio source, Seyfert galaxies, spiral galaxies 1974 Apr. p. 66-77 Sahara desert, irrigation, ground water, artesian well, agricultural	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88-98 salt panticles, meteorology, condensation nuclei, ocean foam, cloud physics, rain, seasalt and rain 1957 Oct. p. 42-47 salt tolerance, irrigation, sea water, salt-water agriculture, agronomy, arid lands 1967 Mar. p. 89-96
carbohydrate 1969 Feb. p. 100-107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38-42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114-125 [1390] Sagittarius A, galactic center, Milky Way, quasars, radio source, Seyfert galaxies, spiral galaxies 1974 Apr. p. 66-77 Sahara desert, irrigation, ground water, artesian well, agricultural technology, water resource management, land reclamation,	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98 salt particles, meteorology, condensation nuclei, ocean foam, cloud physics, rain, seasalt and rain salt tolerance, irrigation, sea water, salt-water agriculture, agronomy, arid lands 1967 Mar. p. 89-96 salt trade, salt pans, salt mines, salt in history 1963 July p. 88-98
carbohydrate 1969 Feb. p. 100-107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38-42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114-125 [1390] Sagittarius A, galactic center, Milky Way, quasars, radio source, Seyfert galaxies, spiral galaxies 1974 Apr. p. 66-77 Sahara desert, irrigation, ground water, artesian well, agricultural	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98 salt particles, meteorology, condensation nuclei, ocean foam, cloud physics, rain, seasalt and rain 1957 Oct. p. 42-47 salt tolerance, irrigation, sea water, salt-water agriculture, agronomy, arid lands 1967 Mar. p. 89-96 salt trade, salt pans, salt mines, salt in history 1963 July p. 88-98 salt trade, salt pans, salt mines, salt in history 1963 July p. 88-98
carbohydrate 1969 Feb. p. 100-107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38-42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114-125 [1390] Sagittarius A, galactic center, Milky Way, quasars, radio source, Seyfert galaxies, spiral galaxies 1974 Apr. p. 66-77 Sahara desert, irrigation, ground water, artesian well, agricultural technology, water resource management, land reclamation, intercalary water, 'fossil' water, making desert fertile 1966 May p. 21-29	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98 salt particles, meteorology, condensation nuclei, ocean foam, cloud physics, rain, seasalt and rain 1957 Oct. p. 42-47 salt tolerance, irrigation, sea water, salt-water agriculture, agronomy, arid lands 1967 Mar. p. 89-96 salt trade, salt pans, salt mines, salt in history 1963 July p. 88-98 salt-water agriculture, irrigation, sea water, agronomy, arid lands, salt tolerance 1967 Mar. p. 89-96
carbohydrate 1969 Feb. p. 100-107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38-42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114-125 [1390] Sagittarius A, galactic center, Milky Way, quasars, radio source, Seyfert galaxies, spiral galaxies 1974 Apr. p. 66-77 Sahara desert, irrigation, ground water, artesian well, agricultural technology, water resource management, land reclamation, intercalary water, 'fossil' water, making desert fertile 1966 May p. 21-29 sail design, marine engineering, yacht design, hull design, towing tank tests	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98 salt particles, meteorology, condensation nuclei, ocean foam, cloud physics, rain, seasalt and rain 1957 Oct. p. 42-47 salt tolerance, irrigation, sea water, salt-water agriculture, agronomy, arid lands 1967 Mar. p. 89-96 salt-water agriculture, irrigation, sea water, agronomy, arid lands, salt tolerance 1967 Mar. p. 89-96 salt-water balance, comparative psychology, desert adaptation, kidney
carbohydrate 1969 Feb. p. 100-107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38-42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114-125 [1390] Sagittarius A, galactic center, Milky Way, quasars, radio source, Seyfert galaxies, spiral galaxies 1974 Apr. p. 66-77 Sahara desert, irrigation, ground water, artesian well, agricultural technology, water resource management, land reclamation, intercalary water, 'fossil' water, making desert fertile 1966 May p. 21-29 sail design, marine engineering, yacht design, hull design, towing tank tests 1966 Aug. p. 60-68 Sakkara, Nile valley, Egyptian civilization, burial site, pharaohs, tombs of	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98 salt particles, meteorology, condensation nuclei, ocean foam, cloud physics, rain, seasalt and rain 1957 Oct. p. 42-47 salt tolerance, irrigation, sea water, salt-water agriculture, agronomy, arid lands 1967 Mar. p. 89-96 salt trade, salt pans, salt mines, salt in history 1963 July p. 88-98 salt-water agriculture, irrigation, sea water, agronomy, arid lands, salt tolerance 1967 Mar. p. 89-96 salt-water balance, comparative psychology, desert adaptation, kidney function, thermoregulation, man: camel comparison
carbohydrate 1969 Feb. p. 100-107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38-42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114-125 [1390] Sagittarius A, galactic center, Milky Way, quasars, radio source, Seyfert galaxies, spiral galaxies 1974 Apr. p. 66-77 Sahara desert, irrigation, ground water, artesian well, agricultural technology, water resource management, land reclamation, intercalary water, 'fossil' water, making desert fertile 1966 May p. 21-29 sail design, marine engineering, yacht design, hull design, towing tank tests 1966 Aug. p. 60-68 Sakkara, Nile valley, Egyptian civilization, burial site, pharaohs, tombs of the first pharaohs	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98 salt particles, meteorology, condensation nuclei, ocean foam, cloud physics, rain, seasalt and rain 1957 Oct. p. 42-47 salt tolerance, irrigation, sea water, salt-water agriculture, agronomy, arid lands 1967 Mar. p. 89-96 salt trade, salt pans, salt mines, salt in history 1963 July p. 88-98 salt-water agriculture, irrigation, sea water, agronomy, arid lands, salt tolerance 1967 Mar. p. 89-96 salt-water balance, comparative psychology, desert adaptation, kidney function, thermoregulation, man:camel comparison 1959 Dec. p. 140-151 [1096]
carbohydrate 1969 Feb. p. 100-107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38-42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114-125 [1390] Sagittarius A, galactic center, Milky Way, quasars, radio source, Seyfert galaxies, spiral galaxies 1974 Apr. p. 66-77 Sahara desert, irrigation, ground water, artesian well, agricultural technology, water resource management, land reclamation, intercalary water, 'fossil' water, making desert fertile 1966 May p. 21-29 sail design, marine engineering, yacht design, hull design, towing tank tests 1966 Aug. p. 60-68 Sakkara, Nile valley, Egyptian civilization, burial site, pharaohs, tombs of the first pharaohs 1957 July p. 106-116 salamander, regeneration, frog, embryonic development, nerve fibers, role	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98 salt particles, meteorology, condensation nuclei, ocean foam, cloud physics, rain, seasalt and rain 1957 Oct. p. 42-47 salt tolerance, irrigation, sea water, salt-water agriculture, agronomy, arid lands 1967 Mar. p. 89-96 salt trade, salt pans, salt mines, salt in history 1963 July p. 88-98 salt-water agriculture, irrigation, sea water, agronomy, arid lands, salt tolerance 1967 Mar. p. 89-96 salt-water balance, comparative psychology, desert adaptation, kidney function, thermoregulation, man:camel comparison 1959 Dec. p. 140-151 [1096] Samaritans, comparative religion, ethnic groups, gene isolation, Israel,
carbohydrate 1969 Feb. p. 100-107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38-42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114-125 [1390] Sagittarius A, galactic center, Milky Way, quasars, radio source, Seyfert galaxies, spiral galaxies 1974 Apr. p. 66-77 Sahara desert, irrigation, ground water, artesian well, agricultural technology, water resource management, land reclamation, intercalary water, 'fossil' water, making desert fertile 1966 May p. 21-29 sail design, marine engineering, yacht design, hull design, towing tank tests 1966 Aug. p. 60-68 Sakkara, Nile valley, Egyptian civilization, burial site, pharaohs, tombs of the first pharaohs 1957 July p. 106-116 salamander, regeneration, frog, embryonic development, nerve fibers, role	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98 salt particles, meteorology, condensation nuclei, ocean foam, cloud physics, rain, seasalt and rain 1957 Oct. p. 42-47 salt tolerance, irrigation, sea water, salt-water agriculture, agronomy, arid lands 1967 Mar. p. 89-96 salt trade, salt pans, salt mines, salt in history 1963 July p. 88-98 salt trade, agronomy, arid lands 1967 Mar. p. 89-96 salt-water agriculture, irrigation, sea water, agronomy, arid lands, salt tolerance 1967 Mar. p. 89-96 salt-water balance, comparative psychology, desert adaptation, kidney function, thermoregulation, man:camel comparison 1959 Dec. p. 140-151 [1096] Samaritans, comparative religion, ethnic groups, gene isolation, Israel,
carbohydrate 1969 Feb. p. 100-107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38-42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114-125 [1390] Sagittarius A, galactic center, Milky Way, quasars, radio source, Seyfert galaxies, spiral galaxies 1974 Apr. p. 66-77 Sahara desert, irrigation, ground water, artesian well, agricultural technology, water resource management, land reclamation, intercalary water, 'fossil' water, making desert fertile 1966 May p. 21-29 sail design, marine engineering, yacht design, hull design, towing tank tests 1966 Aug. p. 60-68 Sakkara, Nile valley, Egyptian civilization, burial site, pharaohs, tombs of the first pharaohs 1957 July p. 106-116 salamander, regeneration, frog, embryonic development, nerve fibers, role of nerve fibers in regeneration 1958 Oct. p. 79-88 Salamis Athens, Xerxes, Themistocles, Classical archeology, Battle of	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98 salt particles, meteorology, condensation nuclei, ocean foam, cloud physics, rain, seasalt and rain 1957 Oct. p. 42-47 salt tolerance, irrigation, sea water, salt-water agriculture, agronomy, arid lands 1967 Mar. p. 89-96 salt trade, salt pans, salt mines, salt in history 1963 July p. 88-98 salt trade, agronomy, arid lands 1967 Mar. p. 89-96 salt-water agriculture, irrigation, sea water, agronomy, arid lands, salt tolerance 1967 Mar. p. 89-96 salt-water balance, comparative psychology, desert adaptation, kidney function, thermoregulation, man:camel comparison 1959 Dec. p. 140-151 [1096] Samaritans, comparative religion, ethnic groups, gene isolation, Israel, Judaism, Holon and Nablus communities
carbohydrate 1969 Feb. p. 100–107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38–42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114–125 [1390] Sagittarius A, galactic center, Milky Way, quasars, radio source, Seyfert galaxies, spiral galaxies 1974 Apr. p. 66–77 Sahara desert, irrigation, ground water, artesian well, agricultural technology, water resource management, land reclamation, intercalary water, 'fossil' water, making desert fertile 1966 May p. 21–29 sail design, marine engineering, yacht design, hull design, towing tank tests 1966 Aug. p. 60–68 Sakkara, Nile valley, Egyptian civilization, burial site, pharaohs, tombs of the first pharaohs 1957 July p. 106–116 salamander, regeneration, frog, embryonic development, nerve fibers, role of nerve fibers in regeneration 1958 Oct. p. 79–88 Salamis, Athens, Xerxes, Themistocles, Classical archeology, Battle of Salamis, Athens, Xerxes, Themistocles, Classical archeology, Battle of	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98 salt particles, meteorology, condensation nuclei, ocean foam, cloud physics, rain, seasalt and rain 1957 Oct. p. 42-47 salt tolerance, irrigation, sea water, salt-water agriculture, agronomy, arid lands 1967 Mar. p. 89-96 salt trade, salt pans, salt mines, salt in history 1963 July p. 88-98 salt trade, salt pans, salt mines, salt in history 1963 July p. 88-98 salt-water agriculture, irrigation, sea water, agronomy, arid lands, salt tolerance 1967 Mar. p. 89-96 salt-water balance, comparative psychology, desert adaptation, kidney function, thermoregulation, man:camel comparison 1959 Dec. p. 140-151 [1096] Samaritans, comparative religion, ethnic groups, gene isolation, Israel, Judaism, Holon and Nablus communities 1977 Jan. p. 100-108 [690] Samos, tunnel of Eupalinus, Greek civilization, Classical archeology.
carbohydrate 1969 Feb. p. 100-107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38-42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114-125 [1390] Sagittarius A, galactic center, Milky Way, quasars, radio source, Seyfert galaxies, spiral galaxies 1974 Apr. p. 66-77 Sahara desert, irrigation, ground water, artesian well, agricultural technology, water resource management, land reclamation, intercalary water, 'fossil' water, making desert fertile 1966 May p. 21-29 sail design, marine engineering, yacht design, hull design, towing tank tests 1966 Aug. p. 60-68 Sakkara, Nile valley, Egyptian civilization, burial site, pharaohs, tombs of the first pharaohs 1957 July p. 106-116 salamander, regeneration, frog, embryonic development, nerve fibers, role of nerve fibers in regeneration 1958 Oct. p. 79-88 Salamis, Athens, Xerxes, Themistocles, Classical archeology, Battle of Salamis, 480 B.C., tablets deciphered 1961 Mar. p. 111-120 salesman's route, Koenigsberg bridges, mathematics, mnemonics, delight	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98 salt particles, meteorology, condensation nuclei, ocean foam, cloud physics, rain, seasalt and rain 1957 Oct. p. 42-47 salt tolerance, irrigation, sea water, salt-water agriculture, agronomy, arid lands 1967 Mar. p. 89-96 salt trade, salt pans, salt mines, salt in history 1963 July p. 88-98 salt trade, salt pans, salt mines, salt-water agriculture, agronomy, arid lands 1967 Mar. p. 89-96 salt-water agriculture, irrigation, sea water, agronomy, arid lands, salt tolerance 1967 Mar. p. 89-96 salt-water balance, comparative psychology, desert adaptation, kidney function, thermoregulation, man:camel comparison 1959 Dec. p. 140-151 [1096] Samaritans, comparative religion, ethnic groups, gene isolation, Israel, Judaism, Holon and Nablus communities 1977 Jan. p. 100-108 [690] Samos, tunnel of Eupalinus, Greek civilization, Classical archeology, water supply, feat of Classical engineering 1964 June p. 104-112 sampling, statistics, mode, median, sequential sampling
carbohydrate 1969 Feb. p. 100–107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38–42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114–125 [1390] Sagittarius A, galactic center, Milky Way, quasars, radio source, Seyfert galaxies, spiral galaxies 1974 Apr. p. 66–77 Sahara desert, irrigation, ground water, artesian well, agricultural technology, water resource management, land reclamation, intercalary water, 'fossil' water, making desert fertile 1966 May p. 21–29 sail design, marine engineering, yacht design, hull design, towing tank tests 1966 Aug. p. 60–68 Sakkara, Nile valley, Egyptian civilization, burial site, pharaohs, tombs of the first pharaohs 1957 July p. 106–116 salamander, regeneration, frog, embryonic development, nerve fibers, role of nerve fibers in regeneration 1958 Oct. p. 79–88 Salamis, Athens, Xerxes, Themistocles, Classical archeology, Battle of Salamis, 480 B.C., tablets deciphered 1961 Mar. p. 111–120 salesman's route, Koenigsberg bridges, mathematics, mnemonics, delight and depth in mathematics 1961 May p. 148–158	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98 salt particles, meteorology, condensation nuclei, ocean foam, cloud physics, rain, seasalt and rain 1957 Oct. p. 42-47 salt tolerance, irrigation, sea water, salt-water agriculture, agronomy, arid lands 1967 Mar. p. 89-96 salt trade, salt pans, salt mines, salt in history 1963 July p. 88-98 salt-water agriculture, irrigation, sea water, agronomy, arid lands, salt tolerance 1967 Mar. p. 89-96 salt-water balance, comparative psychology, desert adaptation, kidney function, thermoregulation, man:camel comparison 1959 Dec. p. 140-151 [1096] Samaritans, comparative religion, ethnic groups, gene isolation, Israel, Judaism, Holon and Nablus communities 1977 Jan. p. 100-108 [690] Samos, tunnel of Eupalinus, Greek civilization, Classical archeology, water supply, feat of Classical engineering 1964 June p. 104-112 sampling, statistics, mode, median, sequential sampling
carbohydrate 1969 Feb. p. 100–107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38–42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114–125 [1390] Sagittarius A, galactic center, Milky Way, quasars, radio source, Seyfert galaxies, spiral galaxies 1974 Apr. p. 66–77 Sahara desert, irrigation, ground water, artesian well, agricultural technology, water resource management, land reclamation, intercalary water, 'fossil' water, making desert fertile 1966 May p. 21–29 sail design, marine engineering, yacht design, hull design, towing tank tests 1966 Aug. p. 60–68 Sakkara, Nile valley, Egyptian civilization, burial site, pharaohs, tombs of the first pharaohs 1957 July p. 106–116 salamander, regeneration, frog, embryonic development, nerve fibers, role of nerve fibers in regeneration 1958 Oct. p. 79–88 Salamis, Athens, Xerxes, Themistocles, Classical archeology, Battle of Salamis, 480 B.C., tablets deciphered 1961 Mar. p. 111–120 salesman's route, Koenigsberg bridges, mathematics, mnemonics, delight and depth in mathematics 1961 May p. 148–158 salicylates, chelation, hemochromatosis, lead poisoning, pharmacology,	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98 salt particles, meteorology, condensation nuclei, ocean foam, cloud physics, rain, seasalt and rain 1957 Oct. p. 42-47 salt tolerance, irrigation, sea water, salt-water agriculture, agronomy, arid lands 1967 Mar. p. 89-96 salt trade, salt pans, salt mines, salt in history 1963 July p. 88-98 salt-water agriculture, irrigation, sea water, agronomy, arid lands, salt tolerance 1967 Mar. p. 89-96 salt-water balance, comparative psychology, desert adaptation, kidney function, thermoregulation, man:camel comparison 1959 Dec. p. 140-151 [1096] Samaritans, comparative religion, ethnic groups, gene isolation, Israel, Judaism, Holon and Nablus communities 1977 Jan. p. 100-108 [690] Samos, tunnel of Eupalinus, Greek civilization, Classical archeology, water supply, feat of Classical engineering 1964 June p. 104-112 sampling, statistics, mode, median, sequential sampling 1952 Jan. p. 60-63
carbohydrate 1969 Feb. p. 100–107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38–42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114–125 [1390] Sagittarius A, galactic center, Milky Way, quasars, radio source, Seyfert galaxies, spiral galaxies 1974 Apr. p. 66–77 Sahara desert, irrigation, ground water, artesian well, agricultural technology, water resource management, land reclamation, intercalary water, 'fossil' water, making desert fertile 1966 May p. 21–29 sail design, marine engineering, yacht design, hull design, towing tank tests 1966 Aug. p. 60–68 Sakkara, Nile valley, Egyptian civilization, burial site, pharaohs, tombs of the first pharaohs 1957 July p. 106–116 salamander, regeneration, frog, embryonic development, nerve fibers, role of nerve fibers in regeneration 1958 Oct. p. 79–88 Salamis, Athens, Xerxes, Themistocles, Classical archeology, Battle of Salamis, 480 B.C., tablets deciphered 1961 Mar. p. 111–120 salesman's route, Koenigsberg bridges, mathematics, mnemonics, delight and depth in mathematics 1961 May p. 148–158 salicylates, chelation, hemochromatosis, lead poisoning, heavy metal poisoning, bone cancer, aspirin, cancer therapy, chemotherapy,	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98 salt particles, meteorology, condensation nuclei, ocean foam, cloud physics, rain, seasalt and rain 1957 Oct. p. 42-47 salt tolerance, irrigation, sea water, salt-water agriculture, agronomy, arid lands 1967 Mar. p. 89-96 salt trade, salt pans, salt mines, salt in history 1963 July p. 88-98 salt-water agriculture, irrigation, sea water, agronomy, arid lands, salt tolerance 1967 Mar. p. 89-96 salt-water balance, comparative psychology, desert adaptation, kidney function, thermoregulation, man:camel comparison 1959 Dec. p. 140-151 [1096] Samaritans, comparative religion, ethnic groups, gene isolation, Israel, Judaism, Holon and Nablus communities 1977 Jan. p. 100-108 [690] Samos, tunnel of Eupalinus, Greek civilization, Classical archeology, water supply, feat of Classical engineering 1964 June p. 104-112 sampling, statistics, mode, median, sequential sampling 1952 Jan. p. 60-63 San Andreas fault, earthquakes, plate boundaries, plate tectonics
carbohydrate 1969 Feb. p. 100–107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38–42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114–125 [1390] Sagittarius A, galactic center, Milky Way, quasars, radio source, Seyfert galaxies, spiral galaxies 1974 Apr. p. 66–77 Sahara desert, irrigation, ground water, artesian well, agricultural technology, water resource management, land reclamation, intercalary water, 'fossil' water, making desert fertile 1966 May p. 21–29 sail design, marine engineering, yacht design, hull design, towing tank tests 1966 Aug. p. 60–68 Sakkara, Nile valley, Egyptian civilization, burial site, pharaohs, tombs of the first pharaohs 1957 July p. 106–116 salamander, regeneration, frog, embryonic development, nerve fibers, role of nerve fibers in regeneration 1958 Oct. p. 79–88 Salamis, Athens, Xerxes, Themistocles, Classical archeology, Battle of Salamis, 480 B.C., tablets deciphered 1961 Mar. p. 111–120 salesman's route, Koenigsberg bridges, mathematics, mnemonics, delight and depth in mathematics 1961 May p. 148–158 salicylates, chelation, hemochromatosis, lead poisoning, pharmacology, drug action, Wilson's disease, metal poisoning, heavy metal poisoning, bone cancer, aspirin, cancer therapy, chemotherapy, 1966 May p. 40–50	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98 salt particles, meteorology, condensation nuclei, ocean foam, cloud physics, rain, seasalt and rain 1957 Oct. p. 42-47 salt tolerance, irrigation, sea water, salt-water agriculture, agronomy, arid lands 1967 Mar. p. 89-96 salt trade, salt pans, salt mines, salt in history 1963 July p. 88-98 salt-water agriculture, irrigation, sea water, agronomy, arid lands, salt tolerance 1967 Mar. p. 89-96 salt-water agriculture, irrigation, sea water, agronomy, arid lands, salt tolerance 1967 Mar. p. 89-96 salt-water balance, comparative psychology, desert adaptation, kidney function, thermoregulation, man:camel comparison 1959 Dec. p. 140-151 [1096] Samaritans, comparative religion, ethnic groups, gene isolation, Israel, Judaism, Holon and Nablus communities 1977 Jan. p. 100-108 [690] Samos, tunnel of Eupalinus, Greek civilization, Classical archeology, water supply, feat of Classical engineering 1952 Jan. p. 60-63 San Andreas fault, earthquakes, plate boundaries, plate tectonics 1971 Nov. p. 52-68 [896] earthquake prediction
carbohydrate 1969 Feb. p. 100-107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38-42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114-125 [1390] Sagittarius A, galactic center, Milky Way, quasars, radio source, Seyfert galaxies, spiral galaxies 1974 Apr. p. 66-77 Sahara desert, irrigation, ground water, artesian well, agricultural technology, water resource management, land reclamation, intercalary water, 'fossil' water, making desert fertile 1966 May p. 21-29 sail design, marine engineering, yacht design, hull design, towing tank tests 1966 Aug. p. 60-68 Sakkara, Nile valley, Egyptian civilization, burial site, pharaohs, tombs of the first pharaohs 1957 July p. 106-116 salamander, regeneration, frog, embryonic development, nerve fibers, role of nerve fibers in regeneration 1958 Oct. p. 79-88 Salamis, Athens, Xerxes, Themistocles, Classical archeology, Battle of Salamis, 480 B.C., tablets deciphered 1961 Mar. p. 111-120 salesman's route, Koenigsberg bridges, mathematics, mnemonics, delight and depth in mathematics 1961 May p. 148-158 salicylates, chelation, hemochromatosis, lead poisoning, pharmacology, drug action, Wilson's disease, metal poisoning, heavy metal poisoning, bone cancer, aspirin, cancer therapy, chemotherapy, medical exploitation of chelates 1966 May p. 40-50	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98 salt particles, meteorology, condensation nuclei, ocean foam, cloud physics, rain, seasalt and rain 1957 Oct. p. 42-47 salt tolerance, irrigation, sea water, salt-water agriculture, agronomy, arid lands 1967 Mar. p. 89-96 salt trade, salt pans, salt mines, salt in history 1963 July p. 88-98 salt trade, salt pans, salt mines, salt in history 1963 July p. 88-98 salt-water agriculture, irrigation, sea water, agronomy, arid lands, salt tolerance 1967 Mar. p. 89-96 salt-water balance, comparative psychology, desert adaptation, kidney function, thermoregulation, man:camel comparison 1959 Dec. p. 140-151 [1096] Samaritans, comparative religion, ethnic groups, gene isolation, Israel, Judaism, Holon and Nablus communities 1977 Jan. p. 100-108 [690] Samos, tunnel of Eupalinus, Greek civilization, Classical archeology, water supply, feat of Classical engineering 1952 Jan. p. 60-63 San Andreas fault, earthquakes, plate boundaries, plate tectonics 1971 Nov. p. 52-68 [896] earthquake prediction 1970 Dec. p. 41 sand bar, beaches, sand dune, berm, ocean, surf, rip channels,
carbohydrate 1969 Feb. p. 100–107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38–42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114–125 [1390] Sagittarius A, galactic center, Milky Way, quasars, radio source, Seyfert galaxies, spiral galaxies 1974 Apr. p. 66–77 Sahara desert, irrigation, ground water, artesian well, agricultural technology, water resource management, land reclamation, intercalary water, 'fossil' water, making desert fertile 1966 May p. 21–29 sail design, marine engineering, yacht design, hull design, towing tank tests 1966 Aug. p. 60–68 Sakkara, Nile valley, Egyptian civilization, burial site, pharaohs, tombs of the first pharaohs 1957 July p. 106–116 salamander, regeneration, frog, embryonic development, nerve fibers, role of nerve fibers in regeneration 1958 Oct. p. 79–88 Salamis, Athens, Xerxes, Themistocles, Classical archeology, Battle of Salamis, 480 B.C., tablets deciphered 1961 Mar. p. 111–120 salesman's route, Koenigsberg bridges, mathematics, mnemonics, delight and depth in mathematics 1961 May p. 148–158 salicylates, chelation, hemochromatosis, lead poisoning, pharmacology, drug action, Wilson's disease, metal poisoning, heavy metal poisoning, bone cancer, aspirin, cancer therapy, chemotherapy, medical exploitation of chelates 1966 May p. 40–50 salinity, Atlantic Ocean, Gulf Stream, ocean circulation, oxygen level,	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98 salt particles, meteorology, condensation nuclei, ocean foam, cloud physics, rain, seasalt and rain 1957 Oct. p. 42-47 salt tolerance, irrigation, sea water, salt-water agriculture, agronomy, arid lands 1967 Mar. p. 89-96 salt trade, salt pans, salt mines, salt in history 1963 July p. 88-98 salt-water agriculture, irrigation, sea water, agronomy, arid lands, salt tolerance 1967 Mar. p. 89-96 salt-water balance, comparative psychology, desert adaptation, kidney function, thermoregulation, man:camel comparison 1959 Dec. p. 140-151 [1096] Samaritans, comparative religion, ethnic groups, gene isolation, Israel, Judaism, Holon and Nablus communities 1977 Jan. p. 100-108 [690] Samos, tunnel of Eupalinus, Greek civilization, Classical archeology, water supply, feat of Classical engineering 1964 June p. 104-112 sampling, statistics, mode, median, sequential sampling 1952 Jan. p. 60-63 San Andreas fault, earthquakes, plate boundaries, plate tectonics 1971 Nov. p. 52-68 [896] carthquake prediction 1970 Dec. p. 41 sand bar, beaches, sand dune, berm, ocean, surf, rip channels, conservation of beaches 1960 Aug. p. 80-94 [845]
carbohydrate 1969 Feb. p. 100–107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38–42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114–125 [1390] Sagittarius A, galactic center, Milky Way, quasars, radio source, Seyfert galaxies, spiral galaxies 1974 Apr. p. 66–77 Sahara desert, irrigation, ground water, artesian well, agricultural technology, water resource management, land reclamation, intercalary water, 'fossil' water, making desert fertile 1966 May p. 21–29 sail design, marine engineering, yacht design, hull design, towing tank tests 1966 Aug. p. 60–68 Sakkara, Nile valley, Egyptian civilization, burial site, pharaohs, tombs of the first pharaohs 1957 July p. 106–116 salamander, regeneration, frog, embryonic development, nerve fibers, role of nerve fibers in regeneration 1958 Oct. p. 79–88 Salamis, 480 B.C., tablets deciphered 1961 Mar. p. 111–120 salesman's route, Koenigsberg bridges, mathematics, mnemonics, delight and depth in mathematics 1961 Mar. p. 111–120 salesman's route, Koenigsberg bridges, mathematics, mnemonics, delight and depth in mathematics 1961 May p. 148–158 salicylates, chelation, hemochromatosis, lead poisoning, pharmacology, drug action, Wilson's disease, metal poisoning, heavy metal poisoning, bone cancer, aspirin, cancer therapy, chemotherapy, medical exploitation of chelates 1966 May p. 40–50 salinity, Atlantic Ocean, Gulf Stream, ocean circulation, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic ocean temperature, Coriolis effect, 'anatomy' of the Atlantic	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt in history 1963 July p. 88-98 salt particles, meteorology, condensation nuclei, ocean foam, cloud physics, rain, seasalt and rain 1957 Oct. p. 42-47 salt tolerance, irrigation, sea water, salt-water agriculture, agronomy, arid lands 1967 Mar. p. 89-96 salt-water agriculture, irrigation, sea water, agronomy, arid lands, salt tolerance 1967 Mar. p. 89-96 salt-water balance, comparative psychology, desert adaptation, kidney function, thermoregulation, man:camel comparison 1959 Dec. p. 140-151 [1096] Samaritans, comparative religion, ethnic groups, gene isolation, Israel, Judaism, Holon and Nablus communities 1977 Jan. p. 100-108 [690] Samos, tunnel of Eupalinus, Greek civilization, Classical archeology, water supply, feat of Classical engineering 1964 June p. 104-112 sampling, statistics, mode, median, sequential sampling San Andreas fault, earthquakes, plate boundaries, plate tectonics 1971 Nov. p. 52-68 [896] carthquake prediction 1970 Dec. p. 41 sand bar, beaches, sand dune, berm, ocean, surf, rip channels, conservation of beaches 1960 Aug. p. 80-94 [845] sand dune, sandstone, granite, weathering, turbidity currents, stratigraphy, sand: origin and history from shape of grain
carbohydrate 1969 Feb. p. 100–107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38–42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114–125 [1390] Sagittarius A, galactic center, Milky Way, quasars, radio source, Seyfert galaxies, spiral galaxies 1974 Apr. p. 66–77 Sahara desert, irrigation, ground water, artesian well, agricultural technology, water resource management, land reclamation, intercalary water, 'fossil' water, making desert fertile 1966 May p. 21–29 sail design, marine engineering, yacht design, hull design, towing tank tests 1966 Aug. p. 60–68 Sakkara, Nile valley, Egyptian civilization, burial site, pharaohs, tombs of the first pharaohs 1957 July p. 106–116 salamander, regeneration, frog, embryonic development, nerve fibers, role of nerve fibers in regeneration 1958 Oct. p. 79–88 Salamis, 480 B.C., tablets deciphered 1961 Mar. p. 111–120 salesman's route, Koenigsberg bridges, mathematics, mnemonics, delight and depth in mathematics 1961 May p. 148–158 salicylates, chelation, hemochromatosis, lead poisoning, pharmacology, drug action, Wilson's disease, metal poisoning, heavy metal poisoning, bone cancer, aspirin, cancer therapy, chemotherapy, medical exploitation of chelates 1966 May p. 40–50 salinity, Atlantic Ocean, Gulf Stream, ocean circulation, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic Ocean temperature, Coriolis effect, 'anatomy' of the Atlantic Ocean for preading the preading of the preading preading the preading that the preading of the Atlantic Ocean for preading preading of the Atlantic Ocean for preading the preading of the Atlantic Ocean for preading of t	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98 salt particles, meteorology, condensation nuclei, ocean foam, cloud physics, rain, seasalt and rain 1957 Oct. p. 42-47 salt tolerance, irrigation, sea water, salt-water agriculture, agronomy, arid lands 1967 Mar. p. 89-96 salt trade, salt pans, salt mines, salt in history 1963 July p. 88-98 salt-water agriculture, irrigation, sea water, agronomy, arid lands, salt tolerance 1967 Mar. p. 89-96 salt-water agriculture, irrigation, sea water, agronomy, arid lands, salt tolerance 1967 Mar. p. 89-96 salt-water balance, comparative psychology, desert adaptation, kidney function, thermoregulation, man:camel comparison 1959 Dec. p. 140-151 [1096] Samaritans, comparative religion, ethnic groups, gene isolation, Israel, Judaism, Holon and Nablus communities 1977 Jan. p. 100-108 [690] Samos, tunnel of Eupalinus, Greek civilization, Classical archeology, water supply, feat of Classical engineering 1952 Jan. p. 60-63 San Andreas fault, earthquakes, plate boundaries, plate tectonics 1971 Nov. p. 52-68 [896] earthquake prediction 1970 Dec. p. 41 sand bar, beaches, sand dune, berm, ocean, surf, rip channels, conservation of beaches 1960 Aug. p. 80-94 [845] sand dune, sandstone, granite, weathering, turbidity currents, stratigraphy, sand: origin and history from shape of grain 1960 Apr. p. 94-110
carbohydrate safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38–42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114–125 [1390] Sagittarius A, galactic center, Milky Way, quasars, radio source, Seyfert galaxies, spiral galaxies 1974 Apr. p. 66–77 Sahara desert, irrigation, ground water, artesian well, agricultural technology, water resource management, land reclamation, intercalary water, 'fossil' water, making desert fertile 1966 May p. 21–29 sail design, marine engineering, yacht design, hull design, towing tank tests 1966 Aug. p. 60–68 Sakkara, Nile valley, Egyptian civilization, burial site, pharaohs, tombs of the first pharaohs 1957 July p. 106–116 salamander, regeneration, frog, embryonic development, nerve fibers, role of nerve fibers in regeneration 1958 Oct. p. 79–88 Salamis, Athens, Xerxes, Themistocles, Classical archeology, Battle of Salamis, 480 B.C., tablets deciphered 1961 Mar. p. 111–120 salesman's route, Koenigsberg bridges, mathematics, mnemonics, delight and depth in mathematics 1961 May p. 148–158 salicylates, chelation, hemochromatosis, lead poisoning, pharmacology, drug action, Wilson's disease, metal poisoning, heavy metal poisoning, bone cancer, aspirin, cancer therapy, chemotherapy, medical exploitation of chelates salinity, Atlantic Ocean, Gulf Stream, ocean circulation, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30–35 [810] brine, Red Sea hot brines, percolation, ocean floor, sea-floor spreading 1970 Apr. p. 32–42	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98 salt particles, meteorology, condensation nuclei, ocean foam, cloud physics, rain, seasalt and rain 1957 Oct. p. 42-47 salt tolerance, irrigation, sea water, salt-water agriculture, agronomy, arid lands 1967 Mar. p. 89-96 salt trade, salt pans, salt mines, salt in history 1963 July p. 88-98 salt-water agriculture, irrigation, sea water, agronomy, arid lands, salt tolerance 1967 Mar. p. 89-96 salt-water balance, comparative psychology, desert adaptation, kidney function, thermoregulation, man:camel comparison 1959 Dec. p. 140-151 [1096] Samaritans, comparative religion, ethnic groups, gene isolation, Israel, Judaism, Holon and Nablus communities 1977 Jan. p. 100-108 [690] Samos, tunnel of Eupalinus, Greek civilization, Classical archeology, water supply, feat of Classical engineering 1964 June p. 104-112 sampling, statistics, mode, median, sequential sampling 1952 Jan. p. 60-63 San Andreas fault, earthquakes, plate boundaries, plate tectonics 1971 Nov. p. 52-68 [896] earthquake prediction 1970 Dec. p. 41 sand bar, beaches, sand dune, berm, ocean, surf, rip channels, conservation of beaches 1960 Aug. p. 80-94 [845] sand dune, sandstone, granite, weathering, turbidity currents, stratigraphy, sand: origin and history from shape of grain 1960 Apr. p. 94-110 beaches, sand bar, berm, ocean, surf, rip channels, conservation of
carbohydrate 1969 Feb. p. 100–107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38–42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114–125 [1390] Sagittarius A, galactic center, Milky Way, quasars, radio source, Seyfert galaxies, spiral galaxies 1974 Apr. p. 66–77 Sahara desert, irrigation, ground water, artesian well, agricultural technology, water resource management, land reclamation, intercalary water, 'fossil' water, making desert fertile 1966 May p. 21–29 sail design, marine engineering, yacht design, hull design, towing tank tests 1966 Aug. p. 60–68 Sakkara, Nile valley, Egyptian civilization, burial site, pharaohs, tombs of the first pharaohs 1957 July p. 106–116 salamander, regeneration, frog, embryonic development, nerve fibers, role of nerve fibers in regeneration 1958 Oct. p. 79–88 Salamis, Athens, Xerxes, Themistocles, Classical archeology, Battle of Salamis, 480 B.C., tablets deciphered 1961 Mar. p. 111–120 salesman's route, Koenigsberg bridges, mathematics, mnemonics, delight and depth in mathematics 1961 Mar. p. 111–120 salesman's route, Koenigsberg bridges, mathematics, mnemonics, delight and depth in mathematics 1961 May p. 148–158 salicylates, chelation, hemochromatosis, lead poisoning, pharmacology, drug action, Wilson's disease, metal poisoning, heavy metal poisoning, bone cancer, aspirin, cancer therapy, chemotherapy, medical exploitation of chelates 1966 May p. 40–50 salinity, Atlantic Ocean, Gulf Stream, ocean circulation, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30–35 [810] brine, Red Sea hot brines, percolation, ocean floor, sea-floor spreading 1970 Apr. p. 32–42 sea-floor spreading, volcanoes, rain, sea water composition,	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt in history 1963 July p. 88-98 salt particles, meteorology, condensation nuclei, ocean foam, cloud physics, rain, seasalt and rain 1957 Oct. p. 42-47 salt tolerance, irrigation, sea water, salt-water agriculture, agronomy, arid lands 1967 Mar. p. 89-96 salt trade, salt pans, salt mines, salt in history 1963 July p. 88-98 salt-water agriculture, irrigation, sea water, agronomy, arid lands, salt tolerance 1967 Mar. p. 89-96 salt-water balance, comparative psychology, desert adaptation, kidney function, thermoregulation, man:camel comparison 1959 Dec. p. 140-151 [1096] Samaritans, comparative religion, ethnic groups, gene isolation, Israel, Judaism, Holon and Nablus communities 1977 Jan. p. 100-108 [690] Samos, tunnel of Eupalinus, Greek civilization, Classical archeology, water supply, feat of Classical engineering 1964 June p. 104-112 sampling, statistics, mode, median, sequential sampling 1952 Jan. p. 60-63 San Andreas fault, earthquakes, plate boundaries, plate tectonics 1971 Nov. p. 52-68 [896] earthquake prediction 1970 Dec. p. 41 sand bar, beaches, sand dune, berm, ocean, surf, rip channels, conservation of beaches 1960 Aug. p. 80-94 [845] sand dune, sandstone, granite, weathering, turbidity currents, stratigraphy, sand: origin and history from shape of grain 1960 Apr. p. 94-110 beaches, sand bar, berm, ocean, surf, rip channels, conservation of beaches, sand bar, berm, ocean, surf, rip channels, conservation of
carbohydrate 1969 Feb. p. 100–107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38–42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114–125 [1390] Sagittarius A, galactic center, Milky Way, quasars, radio source, Seyfert galaxies, spiral galaxies 1974 Apr. p. 66–77 Sahara desert, irrigation, ground water, artesian well, agricultural technology, water resource management, land reclamation, intercalary water, 'fossil' water, making desert fertile 1966 May p. 21–29 sail design, marine engineering, yacht design, hull design, towing tank tests 1966 Aug. p. 60–68 Sakkara, Nile valley, Egyptian civilization, burial site, pharaohs, tombs of the first pharaohs 1957 July p. 106–116 salamander, regeneration, frog, embryonic development, nerve fibers, role of nerve fibers in regeneration 1958 Oct. p. 79–88 Salamis, Athens, Xerxes, Themistocles, Classical archeology, Battle of Salamis, 480 B.C., tablets deciphered 1961 Mar. p. 111–120 salesman's route, Koenigsberg bridges, mathematics, mnemonics, delight and depth in mathematics 1961 Mar. p. 114–158 salicylates, chelation, hemochromatosis, lead poisoning, pharmacology, drug action, Wilson's disease, metal poisoning, heavy metal poisoning, bone cancer, aspirin, cancer therapy, chemotherapy, medical exploitation of chelates 1966 May p. 40–50 salinity, Atlantic Ocean, Gulf Stream, ocean circulation, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30–35 [810] brine, Red Sea hot brines, percolation, ocean floor, sea-floor spreading 1970 Apr. p. 32–42 sea-floor spreading, volcanoes, rain, sea water composition, geochemical cycle, carbonate, hydrologic cycle, why the sea is salt 1970 Apr. p. 104–115 [839]	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70–76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88–98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88–98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88–98 salt particles, meteorology, condensation nuclei, ocean foam, cloud physics, rain, seasalt and rain 1957 Oct. p. 42–47 salt tolerance, irrigation, sea water, salt-water agriculture, agronomy, arid lands 1967 Mar. p. 89–96 salt trade, salt pans, salt mines, salt in history 1963 July p. 88–98 salt-water agriculture, irrigation, sea water, agronomy, arid lands, salt tolerance 1967 Mar. p. 89–96 salt-water balance, comparative psychology, desert adaptation, kidney function, thermoregulation, man:camel comparison 1959 Dec. p. 140–151 [1096] Samaritans, comparative religion, ethnic groups, gene isolation, Israel, Judaism, Holon and Nablus communities 1977 Jan. p. 100–108 [690] Samos, tunnel of Eupalinus, Greek civilization, Classical archeology, water supply, feat of Classical engineering 1964 June p. 104–112 sampling, statistics, mode, median, sequential sampling 1952 Jan. p. 60–63 San Andreas fault, earthquakes, plate boundaries, plate tectonics 1971 Nov. p. 52–68 [896] carthquake prediction 1970 Dec. p. 41 sand bar, beaches, sand dune, berm, ocean, surf, rip channels, conservation of beaches 1960 Aug. p. 80–94 [845] sand dune, sandstone, granite, weathering, turbidity currents, stratigraphy, sand: origin and history from shape of grain 1960 Apr. p. 94–110 beaches, sand bar, berm, ocean, surf, rip channels, conservation of beaches 1976 Oct. p. 103–114
carbohydrate 1969 Feb. p. 100–107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38–42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114–125 [1390] Sagittarius A, galactic center, Milky Way, quasars, radio source, Seyfert galaxies, spiral galaxies 1974 Apr. p. 66–77 Sahara desert, irrigation, ground water, artesian well, agricultural technology, water resource management, land reclamation, intercalary water, 'fossil' water, making desert fertile 1966 May p. 21–29 sail design, marine engineering, yacht design, hull design, towing tank tests 1966 Aug. p. 60–68 Sakkara, Nile valley, Egyptian civilization, burial site, pharaohs, tombs of the first pharaohs 1957 July p. 106–116 salamander, regeneration, frog, embryonic development, nerve fibers, role of nerve fibers in regeneration 1958 Oct. p. 79–88 Salamis, Athens, Xerxes, Themistocles, Classical archeology, Battle of Salamis, 480 B.C., tablets deciphered 1961 Mar. p. 111–120 salesman's route, Koenigsberg bridges, mathematics, mnemonics, delight and depth in mathematics 1961 Mar. p. 111–120 salesman's route, Koenigsberg bridges, mathematics, mnemonics, delight and depth in mathematics 1961 May p. 148–158 salicylates, chelation, hemochromatosis, lead poisoning, pharmacology, drug action, Wilson's disease, metal poisoning, heavy metal poisoning, bone cancer, aspirin, cancer therapy, chemotherapy, medical exploitation of chelates 1966 May p. 40–50 salinity, Atlantic Ocean, Gulf Stream, ocean circulation, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30–35 [810] brine, Red Sea hot brines, percolation, ocean floor, sea-floor spreading 1970 Apr. p. 32–42 sea-floor spreading, volcanoes, rain, sea water composition, geochemical cycle, carbonate, hydrologic cycle, why the sea is salt 1970 Nov. p. 104–115 [839]	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70–76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88–98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88–98 salt particles, meteorology, condensation nuclei, ocean foam, cloud physics, rain, seasalt and rain 1957 Oct. p. 42–47 salt tolerance, irrigation, sea water, salt-water agriculture, agronomy, and lands 1967 Mar. p. 89–96 salt trade, salt pans, salt mines, salt in history 1963 July p. 88–98 salt-water agriculture, irrigation, sea water, agronomy, arid lands, salt tolerance 1967 Mar. p. 89–96 salt-water balance, comparative psychology, desert adaptation, kidney function, thermoregulation, man:camel comparison 1959 Dec. p. 140–151 [1096] Samaritans, comparative religion, ethnic groups, gene isolation, Israel, Judaism, Holon and Nablus communities 1977 Jan. p. 100–108 [690] Samos, tunnel of Eupalinus, Greek civilization, Classical archeology, water supply, feat of Classical engineering 1964 June p. 104–112 sampling, statistics, mode, median, sequential sampling 1952 Jan. p. 60–63 San Andreas fault, earthquakes, plate boundaries, plate tectonics 1971 Nov. p. 52–68 [896] earthquake prediction 1970 Dec. p. 41 sand bar, beaches, sand dune, berm, ocean, surf, rip channels, conservation of beaches 1960 Aug. p. 80–94 [845] sand dune, sandstone, granite, weathering, turbidity currents, stratigraphy, sand: origin and history from shape of grain 1960 Aug. p. 80–94 [845] sand dune classification, dust storms, haboob, soil crosion 1976 Oct. p. 108–114
carbohydrate 1969 Feb. p. 100–107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38–42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114–125 [1390] Sagittarius A, galactic center, Milky Way, quasars, radio source, Seyfert galaxies, spiral galaxies 1974 Apr. p. 66–77 Sahara desert, irrigation, ground water, artesian well, agricultural technology, water resource management, land reclamation, intercalary water, 'fossil' water, making desert fertile 1966 May p. 21–29 sail design, marine engineering, yacht design, hull design, towing tank tests 1966 Aug. p. 60–68 Sakkara, Nile valley, Egyptian civilization, burial site, pharaohs, tombs of the first pharaohs 1957 July p. 106–116 salamander, regeneration, frog, embryonic development, nerve fibers, role of nerve fibers in regeneration 1958 Oct. p. 79–88 Salamis, Athens, Xerxes, Themistocles, Classical archeology, Battle of Salamis, 480 B.C., tablets deciphered 1961 Mar. p. 111–120 salesman's route, Koenigsberg bridges, mathematics, mnemonics, delight and depth in mathematics 1961 May p. 148–158 salicylates, chelation, hemochromatosis, lead poisoning, pharmacology, drug action, Wilson's disease, metal poisoning, heavy metal poisoning, bone cancer, aspirin, cancer therapy, chemotherapy, medical exploitation of chelates 1966 May p. 40–50 salinity, Atlantic Ocean, Gulf Stream, ocean circulation, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30–35 [810] brine, Red Sea hot brines, percolation, ocean floor, sea-floor spreading 1970 Apr. p. 32–42 sea-floor spreading, volcanoes, rain, sea water composition, getthelium, getthelium, epithelium, salivary gland, cell membrane, intercellular communication, epithelium,	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98 salt particles, meteorology, condensation nuclei, ocean foam, cloud physics, rain, seasalt and rain 1957 Oct. p. 42-47 salt tolerance, irrigation, sea water, salt-water agriculture, agronomy, arid lands 1967 Mar. p. 89-96 salt trade, salt pans, salt mines, salt in history 1963 July p. 88-98 salt-water agriculture, irrigation, sea water, agronomy, arid lands, salt tolerance 1967 Mar. p. 89-96 salt-water balance, comparative psychology, desert adaptation, kidney function, thermoregulation, man:camel comparison 1959 Dec. p. 140-151 [1096] Samaritans, comparative religion, ethnic groups, gene isolation, Israel, Judaism, Holon and Nablus communities 1977 Jan. p. 100-108 [690] Samos, tunnel of Eupalinus, Greek civilization, Classical archeology, water supply, feat of Classical engineering 1964 June p. 104-112 sampling, statistics, mode, median, sequential sampling 1952 Jan. p. 60-63 San Andreas fault, earthquakes, plate boundaries, plate tectonics 1971 Nov. p. 52-68 [896] earthquake prediction 1970 Dec. p. 41 sand bar, beaches, sand dune, berm, ocean, surf, rip channels, conservation of beaches 1960 Aug. p. 80-94 [845] sand dune, sandstone, granite, weathering, turbidity currents, stratigraphy, sand: origin and history from shape of grain 1960 Aug. p. 80-94 [845] sand dune classification, dust storms, haboob, soil crosion 1976 Oct. p. 108-114 sand dune ecology, thermoregulation, succulent plants, behavioral adaptation, symbiosis, adaptation, adaptive mechanism for hife in
carbohydrate 1969 Feb. p. 100–107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38–42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114–125 [1390] Sagittarius A, galactic center, Milky Way, quasars, radio source, Seyfert galaxies, spiral galaxies 1974 Apr. p. 66–77 Sahara desert, irrigation, ground water, artesian well, agricultural technology, water resource management, land reclamation, intercalary water, 'fossil' water, making desert fertile 1966 May p. 21–29 sail design, marine engineering, yacht design, hull design, towing tank tests 1966 Aug. p. 60–68 Sakkara, Nile valley, Egyptian civilization, burial site, pharaohs, tombs of the first pharaohs 1957 July p. 106–116 salamander, regeneration, frog, embryonic development, nerve fibers, role of nerve fibers in regeneration 1958 Oct. p. 79–88 Salamis, Athens, Xerxes, Themistocles, Classical archeology, Battle of Salamis, 480 B.C., tablets deciphered 1961 Mar. p. 111–120 salesman's route, Koenigsberg bridges, mathematics, mnemonics, delight and depth in mathematics 1961 Mar. p. 114–158 salicylates, chelation, hemochromatosis, lead poisoning, pharmacology, drug action, Wilson's disease, metal poisoning, heavy metal poisoning, bone cancer, aspirin, cancer therapy, chemotherapy, medical exploitation of chelates 1966 May p. 40–50 salinity, Atlantic Ocean, Gulf Stream, ocean circulation, oxygen level, ocean temperature, Coriolis effect, 'anatomy' of the Atlantic 1955 Jan. p. 30–35 [810] brine, Red Sea hot brines, percolation, ocean floor, sea-floor spreading 1970 Apr. p. 32–42 sea-floor spreading, volcanoes, rain, sea water composition, geochemical cycle, carbonate, hydrologic cycle, why the sea is salt 1970 Apr. p. 104–115 [839]	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70–76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88–98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88–98 salt particles, meteorology, condensation nuclei, ocean foam, cloud physics, rain, seasalt and rain 1957 Oct. p. 42–47 salt tolerance, irrigation, sea water, salt-water agriculture, agronomy, and lands 1967 Mar. p. 89–96 salt trade, salt pans, salt mines, salt in history 1963 July p. 88–98 salt-water agriculture, irrigation, sea water, agronomy, arid lands, salt tolerance 1967 Mar. p. 89–96 salt-water balance, comparative psychology, desert adaptation, kidney function, thermoregulation, man:camel comparison 1959 Dec. p. 140–151 [1096] Samaritans, comparative religion, ethnic groups, gene isolation, Israel, Judaism, Holon and Nablus communities 1977 Jan. p. 100–108 [690] Samos, tunnel of Eupalinus, Greek civilization, Classical archeology, water supply, feat of Classical engineering 1964 June p. 104–112 sampling, statistics, mode, median, sequential sampling 1952 Jan. p. 60–63 San Andreas fault, earthquakes, plate boundaries, plate tectonics 1971 Nov. p. 52–68 [896] earthquake prediction 1970 Dec. p. 41 sand bar, beaches, sand dune, berm, ocean, surf, rip channels, conservation of beaches 1960 Aug. p. 80–94 [845] sand dune, sandstone, granite, weathering, turbidity currents, stratigraphy, sand: origin and history from shape of grain 1960 Aug. p. 80–94 [845] sand dune classification, dust storms, haboob, soil crosion 1976 Oct. p. 108–114

	the same of floor spreading Farth
huward explanation 1976 Mar p 61	continental drift, plate tectonics, subduction, sea-floor spreading, Earth
and dune noises, physical explanation	crust. Triassic period, Pangaea, Computer industrial
organisms, tidal rhythms, integration of biological and sidereal	the state of the s
cycles sand wasps, Australia, behavioral adaptation, ecology, insect behavior, 1975 Dec p 108-115	
sand wasps, Australia, behavioral adaptation, servery 1975 Dec p 108–115	escape response, marine invertebrates, starfish, limpets, prey-predator
solitary insects, Bembix	escape response, marine invertebrates, startistic distribution of the secape response response of the seca
solitary insects, Belinoix sandstone, sand dune, granite, weathering, turbidity currents, sandstone, sand dune, granite, weathering, turbidity currents,	1051 Nov. n. 62-66
stratigraphy, sand origin and history from shape of grain 1960 Apr p 94-110	1 1
1072 I-m n 46	
sandstorms, haboob, haboobs in U S	Lemothecic inclini Dell'enillini 17/1 Juno P
e t Adved cholera displace illeulear care, "ave i i	G - Marris commerce Vikings, homaus, villiand, biographic legisles
	Come Cross appraisal of Alit-Veal Viking ascendance
- 1 Marrian conter pines 1500 Bept P -	seatanng, Svea, appraisal of 400 years 1967 May p 66–78
A P. TT 1 10mts wort procedite should lengton, solution	scanning electron microscope, pollen, flower, plant cell, morphology
sap circulation, Hales, plants, 100t pressure, showing 1952 Oct p 78–82	scanning electron microscope, ponch, nover, panels,
history, Stephen Hales, founder of biophysics 1952 Oct p 78–82 phloem, xylem, plants, radioautography, transport of nutrients in plant 1959 Feb p 44–49 [53]	1971 Apr p 26–35
phloem, xylem, plants, radioautography, transport of 1959 Feb p 44–49 [53]	atom visibility, electron microscopy, microscopy 1971 Apr p 26–35
	microscope, light microscope, transmission electron microscope, the
tissue aphids, phloem, xylem, trees, use of aphids to measure forces in sap	1 and one protures by scanning election flictoscope
	1772 July p 2 . 0
a to the same bestone plant physiology, Stephen	atomic resolution 1970 Aug p 48
	scent glands, communication, territorial behavior, pheromones, rabbits,
human physiology, muscle liber, electron	lung order territorial marking DV rappit
	1968 May p 116–126 [1108]
	Sulvester method
structure muscle, asynchronous muscle, asynchronous muscle, muscle fibril, insect flight, synchronous muscle, 1965 June p. 76–88 [1014]	Schaefer method, artificial respiration, Sylvester method 1951 July p 18-21
muscle fibril, insect flight, synchronous muscle, asymptotic process flight muscles 1965 June p 76–88 [1014]	1,551 buty p
	scheduling, combinatorial analysis, algorithms, critical path scheduling,
Sardinia, Carthagunian fortress, military history 1975 Feb p 80–87	1
Sardina, Carthaginian fortiess, mintaly installination, Croesus, 6th Sardis, archeological excavation, Lydian civilization, Croesus, 6th 1961 June p 124–135	1978 Mar p 124-132 [3001]
	schizophrenia, stress, adrenal gland, steroid hormones
Sargasso Sea, sea weed, ocean circulation, Sargassum weed in oceanic	1949 July p ++ +1
	psychoanalysis, art, a case study 1952 Apr p 30–34
satellite, artificial satellite, orbital motion, space exploration, Sputing,	neigh otherany, nevchoanalysis, shock therapy, psychosurgery, the case
	f = hothoropy
t the state of the	emotional illness, mental health, epidemiology, family, psychosis,
	income status 1954 Mar p 38–42 [441]
photographs animal migration, polar bears, telemetry, Arctic, satellite tracking of 1968 Feb. p. 108–116 [1102]	cultural patterns, Irish families, Italian families, schizophrenia and
animal migration, polar bears, telementy, Alene, satisfactory animals 1968 Feb p 108–116 [1102]	
migratory annual argumentallities meteorology, Tiros, Essa,	culture 1997 Aug p 199
weather forecasting, weather satellites, hereovers 1969 Jan p 52–68	child psychiatry, autism, psychoanalysis, emotional deprivation, 'mechanical hov' 1959 Mar p 116–127 [439]
	'mechanical boy' 1959 Mar p 116-127 [439]
arms control, SALT, strategic weapons, verification technology,	emotional illness, psychoanalysis, psychiatry, psychosis, neurosis,
	double bind, taxonomy of emotional illness, family therapy
history of development at Sputial numering 1057 Dec. p. 58	1962 Aug p 63-74 [400]
Sputnik, Sputnik II results Sputnik I Sputnik II results 1958 Apr p 50	motivation, 'reactive inhibition', fatigue, experiment in objective
Sputnik, Sputnik I results	measurement of motivation 1903 May p 130-140
	behavioral psychology, child psychiatry, autism, emotional illness
Sputnik Sputnik I racults	1967 Mar p 78–86 [505]
Weather satellite foregasting	overtakes twins simutaneously 1949 Dec p 29
better good to reduce C.E.P. 1902 May p. 75	chemistry of psychosis 1956 June p 54
TICED Vestels III and IV	Clicitisti y or payenesis
see also weether catellites. Earth satellite and the like	portrait of the aged recluse 1961 Mar p 84 Schlieren scanning, electrophoresis, protein separation, moving-boundary
neutron stars, pulsar, Cygnus X-1 1976 Oct p 66–79A	electrophoresis 1951 Dec p 45–55
satellite diorambanualsia acid. see SDNA	Schmidt telescope. Palomar Observatory, Hale telescope, garactic survey,
saturation diving, continental shelf exploitation, underwater shelters,	cosmology, 200-inch and 48 inch Palomar telescopes
	1948 Aug p 12–17
1966 Mar p 24–33 [1036]	sky survey, astronomy, the 48-inch Schmidt telescope at Palomar
Dieta color cyclem Uranus	Mountain
Saturn, Neptune, outer planets, Pluto, solar system, Uranus 1975 Sept p 130-140	school attendance, intelligence test scores, U S youth
1967 Apr p 50	1951 Sept p 101–108
	schooling behavior, animal behavior, marine biology, fish, sensory
Saudi Arabia, Middle East oil, petroleum resources, energy economics,	systems for parallel orientation 1962 June p 128–138 [124]
Persian Gulf fields, economic development, Iran, Iraq	
1946 Зерг р У-г.	potential, perfusion technique, cell perfusion, structure of axonal
savanna topography, animal migration, grassland, grazing animals,	tube, physiology of neural transmission, concentration gradients
grazing accepted Serengeti National Park, Tanzania	
19/1 July p 80-33 [1220	1
saw-blade control, for fine cutting 1976 May p 5	advance of science 1900-1950 1950 Sept p 20–23
savitos in animal toxins nerve conduction block, tetrodotoxin, poisons,	
puffer fish California newt 1967 Aug p 60-71 [1000	astronomy, garaxies, red sint, garactic recession, universe expansion,
saxonhone, musical instruments, vibrating air column, clarinet, oboe,	stellar evolution, general relativity, astronomy 1900-1950
flute, bassoon, English horn, physics of the wood winds	1950 Sept p 24–27
1960 Oct. p 144–15	quantum mechanics, special relativity, atomic structure, high-energy

1961 Feb p 96-106

1965 Mar p 104-110

physics, physics 1900-1950

chemistry, chemical bond, molecular structure, crystal structure,

protein structure, chemical kinetics, chemistry 1900-1950

geology, seismology, Earth science, Earth core, Earth mantle,

geochronology, ocean floor, geology 1900-1950 1950 Sept p 36-39

scaling, geology, tectonic processes, mathematical model, block fault,

computer applications, fluid dynamics, computer modeling, wind

geosyncline, experimental geology

tunnel, vortex, computer graphics

1950 Sept p 28-31

1950 Sept p 32-35

mathematics, set theory, logic, paradox, non-Euclidian space, non-	N. 0
commutative digeord, Hilbert Spaces, mathematica form toco	N S F to make institutional grants 1960 July p 74
undecidable questions 1050 c. n. n. 10 12	1961 June n 84
emonitronic, initiation, evolutionary diversity, general 1960, 1960, one	1065 Cant n 01
Seme-one entryine 1950 Cont. n. CC 60	of the state of the state of science teaching
ordenenistry, enzymes, virus, citric-deid evele metabolism co-	1967 Jan p 55
enzymes, sulfa drugs, antibiotics, biochemistry 1900-1950	OLCD discissment of U.S. situation 1968 Mar. n. 48
1950 Sept. p 62-68	U 5 decline continues 1970 Apr n 45
physiology, nervous system, endocrine system, respiration, nerve	deployment of research funds and 'social status' of diseases
impulse, muscle contraction, physiology 1900-1950	1971 Jan p 47
	decline continues 1971 May p. 44
psychology, psychological testing, perception, psychology 1900-1950	university relations with US government 1976 May n 50
responded, projection testing, perception, psychology 1900-1950	US budget 1977 1976 Nov n 64
anthropologic human anatom and the 1950 Sept p 79-84	U.S. Federal budget 1978 1978 Mar n 69
anthropology, human evolution, culture as concept, anthropology	'Research Universities and the National Interest' 1978 June p. 78
1930 Scht p 87-94	science history. Franklin, sentry-box experiment, electrical nature of
Germany, documents released in Washington 1948 July p. 30	lightning, 'electrical fluid', Benjamin Franklin, life and work
science curriculum, curriculum reform, science teaching, high school, not	1948 Aug. p 36-43
enough scientists and engineers 1954 Feb p 27-29	enzymes, catalysis, digestion, respiration, fermentation, lock-and key
science education, NSF, science funding, university research,	theory 1948 Dec p 28-39
fundamental research 1948 June p. 7–11	tuberculosis, tubercle bacillus, mortality rates, economic development,
NSF, science funding, university science, appraisal of the new	public health, popularization of well-being, not therapy, ends white
institution upon its legislation 1950 July p 11-15	plague' 1949 Oct p 30-41
scientists, liberal arts colleges, origins of US scientists	Democritus, atom 1949 Nov p 48-49
1951 July n 15-17	dendrochronology, Douglass, A E. Douglass and tree ring clock
research and development, USSR, science funding, science	1952 Jan p 54-58
manpower, USSR science policy 1969 June p. 19-29	quantum mechanics, Planck, spectroscopy, black body, resonators,
20,000 foreign students in U S 1948 Aug p. 23	Einstein, photoelectric effect, Compton effect, quantum jumps
physics in decline 1955 May p. 56	1952 Mar p 47–54 [205]
Rockefeller Institute becomes University 1956 Mar. p. 50	Harvey, blood circulation, life and work of William Harvey
manpower 1956 Mar. p. 52	1952 June p 56-62
Ph D, production assessed 1956 Sept. p 111	Thompson, growth, form, life and work of D'Arcy Thompson
increased enrollment 1957 Sept p 56	1952 Aug p 60-66
enrollment at peak 1958 Apr. p 48	alchemy, transmutation, philosopher's stone 1952 Oct p 72-76
USSR program 1959 Feb. p 62	Hales, plants, root pressure, sap circulation, shoot tension, Stephen
U S Federal funding 1959 July p 62	Hales, founder of biophysics 1952 Oct p 78-82
Federal funding 1961 Sept p 84	Clifford, mathematics, life and work of William Kingdon Clifford
help for small colleges 1964 Sept p 84	1953 Feb p 78-84
science funding, N S F, university research, fundamental research,	Hauksbee, electric power, light, life and work of Francis Hauksbee
science education 1948 June p 7–11	1953 Aug p 64-69
university research, Office of Naval Research 1949 Feb p 11–15	Faraday, electrical induction, life and work of Michael Faraday
A E C, atomic weapons, nuclear power, university research, military	1953 Oct p 90-98
secrecy 1949 July p 30-43	electrical induction, radiowave, Henry, life and work of Joseph Henry
N S F, university science, science education, appraisal of the new	1954 July p 72–77
institution upon its legislation 1950 July p 11–15	Carnot, Rumford, Joule, heat, pioneers in the theory of heat
fundamental research, curiosity, 'mission-oriented' funding agencies,	1954 Sept p 60-61
university science, N S F, introduction to a single-topic issue on	Hooke, astronomy, microbiology, life and work of Robert Hooke
fundamental questions in science 1953 Sept p 47-51	1954 Dec p 94-98
NSF, university science, fundamental research 1954 Mar p 29–33	military medicine, medicine, Pare, surgery, life and work of Ambroise
NSF, science policy, university science, US Federal funding basic	Pare 1956 Jan p 90–96
and applied science 1957 Nov p 45-49	evolution, Darwin, Charles Darwin biography
science policy, university science, freedom of science, creativity,	1956 Feb p 62-72 [108]
conditions favoring advance in science 1958 Sept p 170-178	chemistry, phlogiston theory, Lavoisier, biography of Antoine
N S F . 'mission-oriented' funding agencies, institutional grants,	Lavoisier 1956 May p 84-94
science policy, fundamental research, project grants, university	cosmology, universe evolution, philosophy of science, a skeptical view
science, problems in government support of science in the US	of cosmology 1956 Sept p 224-236
1965 July p 19–25	Mendel's laws, chromosome mapping, mutation, the gene on the eve of
science education, research and development, USSR, science	the resolution of the genetic code 1956 Oct p 78–90 [17]
manpower, USSR science policy 1969 June p 19-29	atomic nucleus, particle-scattering experiments, Rutherford, biography 1956 Nov p 93-104
Federal budget 1949 1948 May p 32	1930 NOV p 35-10
by philanthropic foundations 1949 June p 29	dye, mauveine, coal-tar chemistry, 'Perkin reaction', biography of William Perkin 1957 Feb p 110-117
Federal budget 1953 1952 Mar p 34	William Perkin 1957 Feb p 110-117 mathematics, Bourbaki, philosophy of science, axiomatics, labors of the
fellowships tayable? 1932 Mar p 30	mathematical collective self-styled Bourbaki 1957 May p 88-99
'mission-oriented' funding agencies, project funding decried 1952 Dec p 38	cell differentiation, embryonic development, blastula, gastrula,
	fertilization, ectoderm, mesoderm, endoderm, embryological
'mission-oriented' funding agencies, independence of scientist 1953 May p 53	'organizer' review of classical embryology 1957 Nov p 79-88 [103]
2052 4 40	radio, electromagnetism, 'Hertzian' waves, electromagnetic spectrum,
more than half redetal	Heinrich Hertz higgraphy 1957 Dec p 98-100
Federal budget 1934	uranum fission, nuclear fission, fission products, 'synthetic' elements,
Federal budget 1900	radium, isotropy, transuranium elements, discovery of fission
To Maral	1958 Feb p 76-84
loyality and security, eligibility and political attitudes of Federal 1956 May p 54	conservation law, Helmholtz resonators, matter conservation,
grantees 1057 for p 58	onhthalmoscope, Hermann von Helmholtz, biography
tax incentives for private runding 1957 Jan p 58	1958 Mar p 94-102 mathematics, prime number, sieve of Eratosthenes, mathematical sieves
US Federal budget 1957	
'mission-oriented' funding agencies, mission-oriented 1958 Feb p 40	and their uses 1958 Dec p 105-112
Argonne laboratory university consortium 1958 July p 50	

Darwinism, natural selection, Wallace, life and work of	F Alfred Russel	'brain drain', to U S	1963 Apr p 81
Wallace 19	59 Feb p 70-84	'science of science', a growing discipline	1966 June p 58
	59 May p 60-66	science policy, NSF, science funding, university scien	
Antikythera, planetary motion, Greek computer, ancie	nt instruments,		957 Nov p 45-49
Classical archeology, computer technology, 2,000-ye	ar-old computer	science funding, university science, freedom of science	
19:	59 June p 60-67		8 Sept p 170-178
evolution, geology, Lyell, Charles Lyell, biography		NSF, 'mission-oriented' funding agencies, science f	
	p 98-106 [846]	institutional grants, fundamental research, project	grants, university
Neanderthal man, Devon caves, human evolution, stor	ne tools, idea of	science, problems in government support of science	e in the US
man's antiquity 1959	Nov p 167-176		1965 July p 19–25
electric light, incandescent lamp, industral research, Ed	dison, Thomas	air transport, technology assessment, automobile tra	nsportation, air
A Edison, biography 195	9 Nov p 98-114	pollution, noise pollution, technology assessment i	nstitutions
electrochemistry, phlogiston theory, electrolysis, Davy	lamp, Humphry	proposed 1970 i	Feb p 13-21 [332]
Davy, biography 1960	June p 106-116	intelligence, race, whites, IQ, heredity, American Ne	gro, heredity,
ballistics, caloric heat theory, oven, Rumford, heat as i	motion,	population genetics, social psychology, twins, envi	ronment, racial
Benjamin Thomson, biography 1960	Oct. p 158-168	discrimination 1970 C	ct p 19-29 [1199]
observatory, astronomy, scientific instrumentation, Ty		gene manipulation, gene splicing, National Academy	
	Feb p 118-128	recombinant DNA, NIH guidelines 1977 Ja	uly p 22~23 [1362]
dynamo, electromagnetic induction, Faraday to dynar	no	NSF, peer review, research funding, university scie	nce, sociology of
	May p 107-116	science 1977	Oct p 34-41 [698]
cell anatomy, spermatozoon, ovum, virus, cytology, m	uscle cell, plant	Compton succeeds Bush	1948 Nov p 24
cell, connective tissue cell, introduction to single-to	pic issue on the	Max Planck Institutes	1949 Apr p 27
	ept p 50-61 [90]	cabinet 'department of science' opposed	1949 May p 26
color photography, Maxwell's color photograph, first	three color	Truman advisers	1951 June p 30
	Nov p 118-128	USSR.	1958 Feb p 41
gravitational constant, Eotvos experiment, general rel		AAAS, AAAS-sponsored 'Parliament of Science	· ·
	961 Dec p 84-94	· • • • • • • • • • • • • • • • • • • •	1958 May p 51
Etungshausen effect, Hall effect, Nernst effect, Righi-	Leduc effect,	social relevance of science, A A A S recommendatio	
galvanomagnetism, thermomagnetism, industrial te	chnology,		1960 Sept p 98
technological applications of 19th c discoveries		White House adviser for science and technology	1961 Mar p 80
	1 Dec p 124-136	Scientists' Institute for Public Information	1963 May p 74
algebra, mathematics, matrix, vector	64 Sept p 70-78	science under 'political, military, commercial' pressu	re
atomic theory, Rutherford-Soddy theory, element train	nsmutation,	•	1965 Feb p 50
radioactivity, radioactive decay transmutation, rece		classified research	1966 Feb p 53
	966 Aug p 88-94	OECD report	1971 Aug. p 44
Boyle's law, chemical experimentation, pneumatics, p	hilosophy	Rothschild critique of British policy	1972 Feb p 40
19	67 Aug p 96-102	science-adviser post eliminated	1973 Mar p 44
atomic theory, Greek science, Renaissance science, Be		science indicators from NSF	1973 Nov p 46
	0 May p 116-122	congressional veto on N S F grants	1975 July p 45
technological unnovation, windmills, pumps, blast fur	nace, bellows,	'tenure block' in universities	1977 May p 50
medieval technology, medieval uses of the air		agricultural research	1977 Sept p 100
	ıg p 92–100 [336]	People's Republic of China science planning	1978 June p 74
electromagnetism, electron discovery, induction coil,		science politics, science office in US Department of Si	
	971 May p 80-87	***	1950 July p 26
	72 Mar p 92–106	US science-attache program	1956 Jan p 62
Bacon's cipher, binary code, Boolean algebra, compu	iter history,	US science attache program	1956 Mar p 50
	972 Aug p 76-83	US-USSR exchange program	1956 July p 48
Bruno, Copernican revolution, Galileo's heresy, mart		US science attache program	1956 Sept p 113
	1973 Apr p 86-94	publish or pensh, gamesmanship strategies	1957 Jan p 68
falling body velocity, free fall, Galileo, Merton rule	1973 May p 84-92	US science-attache program	1959 Jan p 62
Copernicus, planetary motion models Tycho Brahe,	color system	science publication, Nature magazine, photographic vis	
	973 Dec p 86–101	US provincialism	1950 Jan p 46-47
ancient instruments, analogue computer, astrolabe, p	Manienhene	USSR. physics in English	1952 Sept p 72
	974 Jan p 96–106	U S S R. translations, biological sciences journals	1955 Oct p 44
continental drift, contracting-Earth theory, Pangaea,	nlate tectonics.	National Federation of Science Abstracting and Inde	1958 Jan. p 46
	1975 Feb p 88-97	Timobal 1 energion of belefice Abanaching and Inde	exing Services
blood pressure, plant physiology sap flow, Stephen	Hales's work	computerized abstracting service	1958 Apr p 49
1	976 May p 98-107	US National Abstracting and Translation Center	1958 June p 48
science legislation, Congress at work	1949 Feb p 28	explosion of journals	1959 Feb p 58
science manpower, disciplinary distribution, labor force	e, employment by	science teaching, science curriculum, curriculum reform	1960 June p 88
sector	1951 Sept p 71-76	enough scientists and engineers	1954 Feb p 27–29
science education, research and development, USS	R., science	high school, curriculum reform, physics curriculum	Physical Science
funding, USSR, science policy	1969 June p 19-29	Study Committee, university sponsored curriculum	n reform
national roster revived	1950 Sept p 46	1958	Apr n 56 64 (270)
pay-scale low	1951 May p 32	Darwinism, evolution, religion, Scopes trial, creation	ISM antievolution
mobility	1954 Nov p 54	laws in U.S	1060 Eat - 15 21
'brain drain', UK to US	1955 Nov p 56	evolution, religion, curriculum reform. Darwinism co	teationism Dibla
technical personnel shortage in U S Federal promotion	1956 Jan p 44	ingui school, Man, a Course of Study, biological sci	ences curnculum
competition by employers	1956 May p 54	study	1976 Apr p 33-39
US median salary 1954-55	1957 Feb p 56	germ areary remistated	1952 Mar p 42
US output increasing	1957 Feb p 56	AAAS program	1055 4
Snortage exaggerated	1957 June p 71	curriculum reform, summer institutes for teacher-trai	ning
Physicists seek academic posts	1957 Sept. p 106 1957 Dec p 60		1956 Apr p 72
O 5 Federal payscale	1958 Feb p 40	teachers' salaries	1956 Dec p 60
recruiting down	1958 June p 46	curriculum reform, U.S. secondary schools	1957 Feb p 57
	une p 40	curriculum reform, US secondary schools	1958 Feb p 40
			,

Conant on U.S. high schools	1958 June p.	All and fine to the second
teacher shortage	1050	53 Harring ecology, ocean, rish, marine life, life in
laboratory-demonstration equipment from U.S.S.R	1050 11	1969 Sent n 146 162 100
curriculum reform, Biological Sciences Curriculum	Study	scamoor, see, occan Hoor
	1960 July p. 8	sea-floor spreading, magnetic field, volcanic rocks, paleomagnetism,
antivivisection movement in high schools	1061 Out = 4	24 Promiencia returnal, records of Contr
science funding, N.S.F. institutional grants for scien	1964 Oct. p. 5	1967 Feb n 44-5
of the state of th	ice teaching	continental drift, glaciation, Gondwanaland, Laurasia
student distaste for science	1967 Jan. p. 5	paleomagnetism, Glossopteris, supercontinents, plate tectonics
science-writing awards. Westinghouse winners	1968 May p. 4	continental drift confirmed 1968 Apr. n. 52_64 1873
scientific groups. Maked and and and and and and and and and an	1952 Aug. p. 4	ocontinental drift, magnetic reversals, crustal movement, earthquakes,
scientific careers, Nobel prizes, education, university e	ducation,	Didic (ccionics 1000 Dec = 00 70 1075
sociology, sociology of the Nobel prizes	1967 Nov. p. 25-3	continental drift, ocean ridges, magnetic reversals, origin of oceans
scientific creations, artistic creations, premature disco-	veries, uniqueness	1040 Cart - 44 75 1000
of scientific discoveries 1972 f	Dec. n. 84_93 11261	ocean floor, lava, dikes, magnetic bands, mid-ocean ridge, the deep-
scientific instrumentation, observatory, astronomy, Ty-	cho Brahe	The state of the s
Stjerneborg, science history, 16th century Hven of	bservatory	
19	61 Feb. p. 118-128	continental drift, plate tectonics, ocean ridges, convection currents,
scientific revolution, creativity, Renaissance, Leonardo	nhilosophy of	1707 1104. p. 102 11
science, introduction to single-topic issue on inno	s piniosophy of	Afar triangle, Red Sea, Rift Valley, guyot, Gulf of Aden, continental
		drift, sea-floor spreading opens new ocean 1970 Feb. p. 32-40 [891]
Parasis and Industrial Devices of the Control	1958 Sept. p. 58-65	brine, Red Sea hot brines, salinity, percolation, ocean floor
Renaissance, Industrial Revolution, human evolution	n, interaction of	1970 Apr. p. 32-42
science and technology, 13th c. to 20th c. 196	60 Sept. p. 173-190	continental drift, plate tectonics, scaling, subduction, Earth crust,
scientists, science education, liberal arts colleges, origin	is of U.S. scientists	Triassic period. Pangaea, computer modeling supercontinents.
	1951 July p. 15-17	breakup of Pangaea traced 1970 Oct. p. 30-41 [892]
psychological testing, socioeconomic background, so	cial psychology.	volcanoes, rain, sea water composition, geochemical cycle, salinity,
psychological study of 64 eminent scientists 1	952 Nov. p. 21-25	carbonate, hydrologic cycle, why the sea is salt
sociability, social psychology, 'Terman sample', scien	itists and other	1970 Nov. p. 104-115 [839]
people' compared on basis of 'Terman' sample of i	ntellectually officed	continental drift, earthquake zones, magnetization patterns, subduction
persons under three-decade longitudinal study	meneerdany birted	
	Jan. p. 25-29 [437]	zones, mountain formation, plate tectonics, overview of the new
talents wasted in uniform		2 · · · · · · · · · · · · · · · · · · ·
	1949 Feb. p. 29	
psychoanalysis by Lawrence Kubie	1953 Dec. p. 58	formation, Indian-Ocean formation, magnetization patterns, plate
Kubie psychoanalysis continued	1954 Mar. p. 48	tectonics 1973 May p. 62–72 [908]
engineers, low on happiness scale	1955 Apr. p. 50	remanent magnetism, mid-Atlantic rift, pillow lava, ocean ridges,
scintigraph, antimatter, crystal structure, gamma radiati		submersible research craft 1975 Aug. p. 79-90 [918]
interaction, positron probes, solid state physics 1		earthquake zones, island arcs, lithospheric subduction, mountain
scintillation counter, electron-multiplier tube, particle ac	celerator,	formation, plate tectonics, subduction zones, volcanic zones
scintillation counters 19	953 Nov. p. 36-41	1975 Nov. p. 88-98 [919]
poisons, ionizing radiation, radioautography, 'bone-se		mountain formation, continental drift, earthquake zones, Gobi Desert,
	955 Aug. p. 34-39	Himalaya formation, India-Eurasia collision, plate tectonics, Tibelan
scintillation counter boson, neutrino, cosmic radiation ne	eutrinos, solar	plateau 1977 Apr. p. 30-41
neutrinos, intermediate vector boson, detection of r		plate tectonics, metals, mid-ocean ridge, hydrothermal extraction,
	966 Feb. p. 40-48	manganese nodules, origin of metal deposits on ocean floor
Scopes trial, Darwinism, evolution, creationism, Bryan,		1978 Feb. p. 54-61 [929]
	9 Jan. p. 120-130	magnetic-reversal data 1967 Aug. p. 40
Darwinism, evolution, religion, science teaching, creat		service fluctuations, climate placiation since Ice Age, mountain glaciers,
	69 Feb. p. 15-21	glacier fluctuations 1970 June p. 100-110
Scorpius, Crab Nebula, X-ray astronomy, sychrotron rac		sea lamprey, chemical control 1959 Dec. p. 84
stars, X-ray astronomy by rocket-borne instruments	indication, medition	con local Forth alaquation. Anterestic glacier climate hydrologic cycle
	64 June p. 36-45	1955 Sept. p. 84-92 [809]
Scotch whisky, biochemist defines mystery	1964 Mar. p. 60	ocean floor glaciation, continental unlift, sea level variations
Scotland, medieval archeology, St. Ninian's Isle, silver ar		1960 May p. 70-79
	Nov. p. 154–166	Black Sea, Tethys Sea, Mediterranean Sea, geological history of Black
	1960 Feb. p. 74	Sea 1978 May p. 52-63 [932]
archeology, 8th c. A.D. metalwork scrapie, brain disease, kuru, Chédiak-Higashi syndrome,		sea power, ocean floor, ocean, sea water, marine resources, introduction
scrapie, brain disease, kuru, Chediak-riigasiii syndionie,	Jan. p. 110–116	to single-topic issue on the ocean 1969 Sept. p. 54-65 [879]
		sea routes, West Indies, New World archeology, Hispaniola, stone
degenerative diseases, immune system, slow virus infect	p. 32–40 [1289]	artifacts, island chains, seafaring hunters from Central America?
		1969 Nov. p. 42–52 [652]
screw dislocation, crystal growth, spiral growth, loop grow	5 Mar. p. 74–80	sea urchin fertilization spermatozoon, acrosome reaction, sexual
		reproduction moment of fertilization 1959 July p. 124-134
screw worm fly, biological pest control, X-ray, sterilization	60 Oct. p. 54-61	sea urchin egg, fertilization, parthenogenesis 1950 Dec. p. 46–49
Cattle, cradication of the service	1955 Oct. p. 50	sea urchin embryo, crystals, calcite, calcium carbonate crystals, crystal
male stermization works	1966 Oct. p. 44	structure embryonic development 1977 Apr. p. 82-92
eradicated by male sterilization	Laccoux	sea urching egg, mitotic spindle, chromosome, digitonin, centroles
sculpture, cave art, cave paintings, Paleolithic archeology,	8 Feb. p. 58–72	1953 Aug. p. 53-05
Altamira	oreo. p. 30-12	sea water, irrigation, salt-water agriculture, agronomy, and lands, salt
information theory, painting, architecture, visual commi	amoanon, c vienal cianale	tolarance 1967 Mar. D. 89–90
trademarks language, visual sufficient	. p. 82–96 [548]	ocean floor, ocean, sea power, marine resources, introduction to single-
1972 3000	. p. oz 20 (2 10)	tonic issue on the ocean 1969 Sept. p. 54-65 [8/9]
architecture, erosion, marble, limestone, atmospheric po	126-136 [3012]	pollution, ocean, mineral resources, wetlands, ocean floor, physical
weathering, preservation of stone 1978 June p.	ology. Altai	1909 Sept. D. 166–176 18831
Chara tombe refriderated tulius, atomor	i by	and trates composition, sea-floor spreading, volcanoes, rain, geochemical
Mountains, cloth, leather and wood artifacts page 1965 N	lay p. 100–109	cycle, salinity, carbonate, hydrologic cycle, why the sea is salt
refrigeration	7 1	1970 Nov. p. 104–115 [839]
	A-RNA	sea-water desalination, chemical process 1961 Nov. p. 88
sDNA. DNA repeat segments, evolution, genome say,	5. 24–31 [1173]	
hybridization	• •	

ea-water freezing, ice crystals, desalination, isobutane, heat of fusion,	seismic mapping, Antarctica, geology, glaciation, seismology, Antarctic
freezing as alternative to distillation 1962 Dec p 41-47	land mass, part continent part archipelago 1962 Sept p 151–166
ea-water nutrients, food supply, fisheries, marine farming, upwelling,	seismic waves, earthquakes, Earth core, Earth mantle, low frequency
fishponds 1970 Dec p 14–21 [1205]	seismic waves elucidate Earth structure 1959 Mar p 131–143 [827]
ea-water salinity, energy exchange, ocean microstructure, ocean	earthquakes, seismology, resonance vibration, Earth's free oscillations
circulation, oceanic stirring, sea-water temperature	1965 Nov p 28–37
[973 Feb p 64–77 [905]	Earth core, earthquakes, underground nuclear explosions, fine
ea weed, Sargasso Sea, ocean circulation, Sargassum weed in oceanic	structure of Earth's interior, core within core
desert 1956 Jan p 98–104	1973 Mar p 24–33 [906]
eafaring, commerce, Vikings, nomads, Scandinavia, Vinland, Siegfried	Andes, earthquake distribution, mountain formation, plate tectonics,
legend, Svea, appraisal of 400-year Viking ascendance	volcanic activity 1973 Aug p 60-69 [910] Earth mantle, kimberlites, meteorite composition, plate tectonics,
1967 May p 66-78	plumes, Earth dynamics 1975 Mar p 50–63 [915]
seagulls, Peru Current, anchovy, guano, El Niño, upwelling 1954 Mar p 66–71	earthquake dynamics, earthquake prediction, ground motion, strong-
_	motion seismology 1977 Dec p 68–78 [928]
seal, Antarctica, directional orientation, breathing, breathing holes in ice 1969 Aug p 100–106 [1156]	Earth as 'whispering gallery' 1975 Sept p 56
energy cycle, Eskimo, hunting societies, food chain, power, Baffin	seismography, long-waved seismograph for exploring core
Island, ecosystem 1971 Sept p 104-115 [665]	1953 Apr p 50
seamounts, ocean floor, topography, Aleutian Trench, fathogram, sonar,	ocean floor, microseism tracking for weather forecasting
echo-sounding, the Pacific floor 1952 Apr p 19–33	1960 Oct p 95
ocean floor, Pacific Ocean, Mendocino escarpment, fracture zones,	seismology, microseisms, weather, earthquakes 1949 Feb p 42-45
Earth mantle convection 1955 July p 36-41	ocean floor, sonar, sedimentary cores, Albatross voyage, isotope dating,
seat belts, airbag, automobile design, automotive safety, crashworthiness	Swedish deep-sea expedition 1950 Aug p 42-45
tests 1973 Feb p 78-86	geology, Earth science, science, Earth core, Earth mantle,
Sebei tribe, bride price, marriage contracts, anthropology	geochronology, ocean floor, geology 1900-1950 1950 Sept p 36-39
1973 July p 74-85	Earth core, Earth mantle, earthquakes, the interior of the Earth
second of time, cesium radiation standard 1968 Jan p 46	1955 Sept p 56-61 [804]
second sound, heat, diffusion, solid state physics, thermal waves,	ocean floor, Vema, explosion-generated sound waves map ocean floor
cryogenics, wave propagation, phonon, helium, thermal waves in	1962 May p 116–126
solid helium 1970 May p 92–101	arms control, atomic bomb test, underground nuclear explosions, how
London vs Landau 1950 Apr p 33	to detect underground weapons tests and distinguish from small
secondary radiation, cosmic radiation, elementary particles, ion traps,	earthquakes 1962 June p 55-59
high-energy physics 1949 Mar p 28–39	Earth mantle, plastic zone, isostatic equilibrium, basalt, Mohorovicic
secondary sexual characteristics, ACTH, hormone, sexual characteristics,	discontinuity, plastic zone at depth between 37 and 155 miles
growth, thyroid-stimulating hormone, follicle-stimulating hormone,	1962 July p 52-59 Antarctica, geology, glaciation, seismic mapping, Antarctic land mass,
prolactin, androgens, estrogens, human physiology, endocrine system, chemical integrators of the body 1957 Mar p 76–88 [1122]	part continent-part archipelago 1962 Sept p 151–166
secret weapon?, \$5 billion for Department of Defense 1951 Oct p 32	earthquakes, resonance vibration, seismic waves, Earth's free
sedatives, barbiturates, hypnotics, tranquilizers, anesthesia,	oscillations 1965 Nov p 28–37
pharmacology 1958 Jan p 60-64	earthquakes, atomic test ban, atomic bomb test, underground nuclear
sedimentary cores, ocean floor, sonar, seismology, Albatross voyage,	explosions, arms control, detection and discrimination of
isotope dating, Swedish deep-sea expedition 1950 Aug p 42-45	underground atomic weapons tests 1966 July p 19-29
bathymetry, sonar, gravimetry, ocean floor, continental shelf, Lamont	arms control, atomic test ban, underground nuclear explosions.
Geophyscial Observatory 1956 Dec p 83-94	technology for verification of underground nuclear test ban
Earth crust, deep sea drilling, ocean evolution, Pacific plate, plate	1972 Jan p 13–23 [343]
tectonics, voyager of the Glomar Challenger	earthquake prediction, plate boundary stresses, earthquake precursors
1973 Nov p 102–112 [911]	1975 May p 14–23 [917]
sedimentary rock, fossil record, organic molecules, gas chromatography,	finds a third wave 1951 Mar p 29
chlorophyll, hydrocarbons, 'chemical fossils' 1967 Jan p 32-43 [308]	Earth's crust 1962 Jan p 64
Calcium anchoneses and an array of the second final	
	selective ischemia, asphyxia, breathing, diving bradycardia, respiratory
calcium carbonate, carbon cycle, photosynthesis, fossil fuel	gas exchange, diving mammals, diving birds, hibernation, oxygen
combustion, biosphere, atmosphere, carbon dioxide	gas exchange, diving mammals, diving birds, hibernation, oxygen storage, human physiology, redistribution of oxygenated blood and
combustion, biosphere, atmosphere, carbon dioxide 1970 Sept p 125–132 [1193]	gas exchange, diving mammals, diving birds, hibernation, oxygen storage, human physiology, redistribution of oxygenated blood and 'master switch of life' 1963 Dec p 92–106
combustion, biosphere, atmosphere, carbon dioxide 1970 Sept p 125–132 [1193] continental evolution, geosyncline, mountain formation, plate tectonics, Apallachian foldbelt 1972 Mar p 30–38 [899]	gas exchange, diving mammals, diving birds, hibernation, oxygen storage, human physiology, redistribution of oxygenated blood and 'master switch of life' 1963 Dec p 92–106 selective services exemptions for scientists 1949 Aug p 22
combustion, biosphere, atmosphere, carbon dioxide 1970 Sept p 125-132 [1193] continental evolution, geosyncline, mountain formation, plate tectonics, Apallachian foldbelt 1972 Mar p 30-38 [899] sedimentation, ultracentrifuge, molecular weight, fractionation, oil drive,	gas exchange, diving mammals, diving birds, hibernation, oxygen storage, human physiology, redistribution of oxygenated blood and master switch of life' 1963 Dec p 92–106 selective service, exemptions for scientists 1949 Aug p 22 draft and college attendance 1951 Sept p 48 no science exemptions 1954 Aug p 38
combustion, biosphere, atmosphere, carbon dioxide 1970 Sept p 125–132 [1193] continental evolution, geosyncline, mountain formation, plate tectonics, Apallachian foldbelt 1972 Mar p 30–38 [899] sedimentation, ultracentrifuge, molecular weight, fractionation, oil drive, air drive, magnetic suspension, 900,000 g, 60 million r p m	gas exchange, diving mammals, diving birds, hibernation, oxygen storage, human physiology, redistribution of oxygenated blood and 'master switch of life' 1963 Dec p 92–106 selective service, exemptions for scientists 1949 Aug p 22 draft and college attendance 1951 Sept p 48 no science exemptions 1954 Aug p 38 discrimination by class and race 1967 May p 34
combustion, biosphere, atmosphere, carbon dioxide 1970 Sept p 125–132 [1193] continental evolution, geosyncline, mountain formation, plate tectonics, Apallachian foldbelt 1972 Mar p 30–38 [899] sedimentation, ultracentrifuge, molecular weight, fractionation, oil drive, air drive, magnetic suspension, 900,000 g, 60 million r p m 1951 June p 42–51	gas exchange, diving mammals, diving birds, hibernation, oxygen storage, human physiology, redistribution of oxygenated blood and master switch of life' 1963 Dec p 92–106 selective service, exemptions for scientists 1949 Aug p 22 draft and college attendance 1951 Sept p 48 no science exemptions 1954 Aug p 38 discrimination by class and race 1967 May p 54 self-disclosure, social psychology, interpersonal relationships,
combustion, biosphere, atmosphere, carbon dioxide 1970 Sept p 125–132 [1193] continental evolution, geosyncline, mountain formation, plate tectonics, Apallachian foldbelt 1972 Mar p 30–38 [899] sedimentation, ultracentrifuge, molecular weight, fractionation, oil drive, air drive, magnetic suspension, 900,000 g, 60 million r p m 1951 June p 42–51 Earth crust, continental evolution, volcanoes, island arcs, origin of the	gas exchange, diving mammals, diving birds, hibernation, oxygen storage, human physiology, redistribution of oxygenated blood and 'master switch of life' 1963 Dec p 92–106 selective service, exemptions for scientists 1949 Aug p 22 draft and college attendance 1951 Sept p 48 no science exemptions 1954 Aug p 38 discrimination by class and race 1967 May p 54 self-disclosure, social psychology, interpersonal relationships, idiosyncracy in self-disclosure 1958 May p 77–82
combustion, biosphere, atmosphere, carbon dioxide 1970 Sept p 125–132 [1193] continental evolution, geosyncline, mountain formation, plate tectonics, Apallachian foldbelt 1972 Mar p 30–38 [899] sedimentation, ultracentrifuge, molecular weight, fractionation, oil drive, air drive, magnetic suspension, 900,000 g, 60 million r p m 1951 June p 42–51 Earth crust, continental evolution, volcanoes, island arcs, origin of the continents	gas exchange, diving mammals, diving birds, hibernation, oxygen storage, human physiology, redistribution of oxygenated blood and 'master switch of life' 1963 Dec p 92–106 selective service, exemptions for scientists 1949 Aug p 22 draft and college attendance 1951 Sept p 48 no science exemptions 1954 Aug p 38 discrimination by class and race 1967 May p 54 self-disclosure, social psychology, interpersonal relationships, idiosyncracy in self-disclosure 1958 May p 77–82 self esteem, behavior, child development, personality
combustion, biosphere, atmosphere, carbon dioxide 1970 Sept p 125–132 [1193] continental evolution, geosyncline, mountain formation, plate tectonics, Apallachian foldbelt 1972 Mar p 30–38 [899] sedimentation, ultracentinfuge, molecular weight, fractionation, oil drive, air drive, magnetic suspension, 900,000 g, 60 million r p m 1951 June p 42–51 Earth crust, continental evolution, volcanoes, island arcs, origin of the continents 1955 Sept p 62–66 [816] Seebeck effect, thermoelectricity, semiconductor, Peltier effect	gas exchange, diving mammals, diving birds, hibernation, oxygen storage, human physiology, redistribution of oxygenated blood and 'master switch of life' 1963 Dec p 92-106 selective service, exemptions for scientists 1949 Aug p 22 draft and college attendance 1951 Sept p 48 no science exemptions 1954 Aug p 38 discrimination by class and race 1967 May p 54 self-disclosure, social psychology, interpersonal relationships, idiosyncracy in self-disclosure 1958 May p 77-82 self esteem, behavior, child development, personality
combustion, biosphere, atmosphere, carbon dioxide 1970 Sept p 125–132 [1193] continental evolution, geosyncline, mountain formation, plate tectonics, Apallachian foldbelt 1972 Mar p 30–38 [899] sedimentation, ultracentrifuge, molecular weight, fractionation, oil drive, air drive, magnetic suspension, 900,000 g, 60 million r p m 1951 June p 42–51 Earth crust, continental evolution, volcanoes, island arcs, origin of the continents 1955 Sept p 62–66 [816] Seebeck effect, thermoelectricity, semiconductor, Peltier effect	gas exchange, diving mammals, diving birds, hibernation, oxygen storage, human physiology, redistribution of oxygenated blood and 'master switch of life' 1963 Dec p 92-106 selective service, exemptions for scientists 1949 Aug p 22 draft and college attendance 1951 Sept p 48 no science exemptions 1954 Aug p 38 discrimination by class and race 1967 May p 54 self-disclosure, social psychology, interpersonal relationships, idiosyncracy in self-disclosure 1958 May p 77-82 self esteem, behavior, child development, personality 1968 Feb p 96-106 [511] self-regulation, cybernetics, feedback, automatic control, computer
combustion, biosphere, atmosphere, carbon dioxide 1970 Sept p 125–132 [1193] continental evolution, geosyncline, mountain formation, plate tectonics, Apallachian foldbelt 1972 Mar p 30–38 [899] sedimentation, ultracentrifuge, molecular weight, fractionation, oil drive, air drive, magnetic suspension, 900,000 g, 60 million r p m 1951 June p 42–51 Earth crust, continental evolution, volcanoes, island arcs, origin of the continents 1955 Sept p 62–66 [816] Seebeck effect, thermoelectricity, semiconductor, Peltier effect 1958 Nov p 31–37 seed, germination, sprout after 800 year germination, artic lumine after 10 00 years	gas exchange, diving mammals, diving birds, hibernation, oxygen storage, human physiology, redistribution of oxygenated blood and 'master switch of life' 1963 Dec p 92–106 selective service, exemptions for scientists 1949 Aug p 22 draft and college attendance 1951 Sept p 48 no science exemptions 1954 Aug p 38 discrimination by class and race 1967 May p 54 self-disclosure, social psychology, interpersonal relationships, idiosyncracy in self-disclosure 1958 May p 77–82 self esteem, behavior, child development, personality 1968 Feb p 96–106 [511] self-regulation, cybernetics, feedback, automatic control, computer science, automata theory, mechanical, biological, social self-
combustion, biosphere, atmosphere, carbon dioxide 1970 Sept p 125–132 [1193] continental evolution, geosyncline, mountain formation, plate tectonics, Apallachian foldbelt 1972 Mar p 30–38 [899] sedimentation, ultracentinfuge, molecular weight, fractionation, oil drive, air drive, magnetic suspension, 900,000 g, 60 million r p m 1951 June p 42–51 Earth crust, continental evolution, volcanoes, island arcs, origin of the continents 1955 Sept p 62–66 [816] Seebeck effect, thermoelectricity, semiconductor, Peltier effect 1958 Nov p 31–37 seed, germination, sprout after 800 year 1951 Nov p 34 germination, artic lupine after 10,00 years 1967 Dec p 55 seed dispersal, adaptation, germination dormancy 1959 Apr. p 75–84	gas exchange, diving mammals, diving birds, hibernation, oxygen storage, human physiology, redistribution of oxygenated blood and master switch of life' 1963 Dec p 92–106 selective service, exemptions for scientists
combustion, biosphere, atmosphere, carbon dioxide 1970 Sept p 125–132 [1193] continental evolution, geosyncline, mountain formation, plate tectonics, Apallachian foldbelt 1972 Mar p 30–38 [899] sedimentation, ultracentinfuge, molecular weight, fractionation, oil drive, air drive, magnetic suspension, 900,000 g, 60 million r p m 1951 June p 42–51 Earth crust, continental evolution, volcanoes, island arcs, origin of the continents 1955 Sept p 62–66 [816] Seebeck effect, thermoelectricity, semiconductor, Peltier effect 1958 Nov p 31–37 seed, germination, sprout after 800 year 1951 Nov p 34 germination, artic lupine after 10,00 years 1959 Apr p 75–84 seegregation, cities, racial discrimination, social geography. American	gas exchange, diving mammals, diving birds, hibernation, oxygen storage, human physiology, redistribution of oxygenated blood and 'master switch of life' 1963 Dec p 92-106 selective service, exemptions for scientists 1949 Aug p 22 draft and college attendance 1951 Sept p 48 no science exemptions 1954 Aug p 38 discrimination by class and race 1967 May p 54 self-disclosure, social psychology, interpersonal relationships, idiosyncracy in self-disclosure 1958 May p 77-82 self esteem, behavior, child development, personality 1968 Feb p 96-106 [511] self-regulation, cybernetics, feedback, automatic control, computer science, automata theory, mechanical, biological, social self-regulation 1948 Nov p 14-19 automatic control, automata theory, information theory, feedback
combustion, biosphere, atmosphere, carbon dioxide 1970 Sept p 125–132 [1193] continental evolution, geosyncline, mountain formation, plate tectonics, Apallachian foldbelt 1972 Mar p 30–38 [899] sedimentation, ultracentrifuge, molecular weight, fractionation, oil drive, air drive, magnetic suspension, 900,000 g, 60 million r p m 1951 June p 42–51 Earth crust, continental evolution, volcanoes, island arcs, origin of the continents 1955 Sept p 62–66 [816] Seebeck effect, thermoelectricity, semiconductor, Peltier effect 1958 Nov p 31–37 seed, germination, sprout after 800 year 1951 Nov p 34 germination, artic lupine after 10,00 years 1967 Dec p 55 seed dispersal, adaptation, germination, dormancy 1959 Apr p 75–84 segregation, cities, racial discrimination, social geography, American Negro, metropolitan segregation 1957 Oct p 33–41	gas exchange, diving mammals, diving birds, hibernation, oxygen storage, human physiology, redistribution of oxygenated blood and 'master switch of life' selective service, exemptions for scientists draft and college attendance no science exemptions discrimination by class and race self-disclosure, social psychology, interpersonal relationships, idiosyncracy in self-disclosure 1958 May p 77–82 self esteem, behavior, child development, personality 1968 Feb p 96–106 [511] self-regulation, cybernetics, feedback, automatic control, computer science, automata theory, mechanical, biological, social self-regulation automatic control, automata theory, information theory, feedback, introduction to single-topic issue on automatic control.
combustion, biosphere, atmosphere, carbon dioxide 1970 Sept p 125–132 [1193] continental evolution, geosyncline, mountain formation, plate tectonics, Apallachian foldbelt 1972 Mar p 30–38 [899] sedimentation, ultracentinfuge, molecular weight, fractionation, oil drive, air drive, magnetic suspension, 900,000 g, 60 million r p m 1951 June p 42–51 Earth crust, continental evolution, volcanoes, island arcs, origin of the continents 1955 Sept p 62–66 [816] Seebeck effect, thermoelectricity, semiconductor, Peltier effect 1958 Nov p 31–37 seed, germination, sprout after 800 year 1951 Nov p 34 germination, artic lupine after 10,00 years 1959 Apr p 75–84 segregation, cities, racial discrimination, social geography, American Negro, metropolitan segregation 1957 Oct p 33–41 racial discrimination, American Negro, Puerto Ricans, housing,	gas exchange, diving mammals, diving birds, hibernation, oxygen storage, human physiology, redistribution of oxygenated blood and 'master switch of life' 1963 Dec p 92-106 selective service, exemptions for scientists 1949 Aug p 22 draft and college attendance 1951 Sept p 48 no science exemptions 1954 Aug p 38 discrimination by class and race 1967 May p 54 self-disclosure, social psychology, interpersonal relationships, idiosyncracy in self-disclosure 1958 May p 77-82 self esteem, behavior, child development, personality 1968 Feb p 96-106 [511] self-regulation, cybernetics, feedback, automatic control, computer science, automata theory, mechanical, biological, social self-regulation 1948 Nov p 14-19 automatic control, automata theory, information theory, feedback, introduction to single-topic issue on automatic control
combustion, biosphere, atmosphere, carbon dioxide 1970 Sept p 125–132 [1193] continental evolution, geosyncline, mountain formation, plate tectonics, Apallachian foldbelt 1972 Mar p 30–38 [899] sedimentation, ultracentrifuge, molecular weight, fractionation, oil drive, air drive, magnetic suspension, 900,000 g, 60 million r p m 1951 June p 42–51 Earth crust, continental evolution, volcanoes, island arcs, origin of the continents 1955 Sept p 62–66 [816] Seebeck effect, thermoelectricity, semiconductor, Peltier effect 1958 Nov p 31–37 seed, germination, sprout after 800 year 1951 Nov p 34 germination, artic lupine after 10,00 years 1967 Dec p 55 seed dispersal, adaptation, germination, dormancy Negro, metropolitan segregation 1957 Oct p 33–41 racial discrimination, American Negro, Puerto Ricans, housing, poverty 1965 Aug p 12–19 [626]	gas exchange, diving mammals, diving birds, hibernation, oxygen storage, human physiology, redistribution of oxygenated blood and 'master switch of life' 1963 Dec p 92-106 selective service, exemptions for scientists 1949 Aug p 22 draft and college attendance 1951 Sept p 48 no science exemptions 1954 Aug p 38 discrimination by class and race 1967 May p 54 self-disclosure, social psychology, interpersonal relationships, idiosyncracy in self-disclosure 1958 May p 77-82 self esteem, behavior, child development, personality 1968 Feb p 96-106 [511] self-regulation, cybernetics, feedback, automatic control, computer science, automata theory, mechanical, biological, social self-regulation 1948 Nov p 14-19 automatic control, automata theory, information theory, feedback, introduction to single-topic issue on automatic control
combustion, biosphere, atmosphere, carbon dioxide 1970 Sept p 125–132 [1193] continental evolution, geosyncline, mountain formation, plate tectonics, Apallachian foldbelt 1972 Mar p 30–38 [899] sedimentation, ultracentrifuge, molecular weight, fractionation, oil drive, air drive, magnetic suspension, 900,000 g, 60 million r p m 1951 June p 42–51 Earth crust, continental evolution, volcanoes, island arcs, origin of the continents 1955 Sept p 62–66 [816] Seebeck effect, thermoelectricity, semiconductor, Peltier effect 1958 Nov p 31–37 seed, germination, sprout after 800 year 1951 Nov p 34 germination, artic lupine after 10,00 years 1967 Dec p 55 seed dispersal, adaptation, germination, dormancy 1959 Apr p 75–84 segregation, cities, racial discrimination, social geography, American Negro, metropolitan segregation 1957 Oct p 33–41 racial discrimination, American Negro, Puerto Ricans, housing, poverty 1965 Aug p 12–19 [626] racial discrimination, prejudice, American Negro, public opinion.	gas exchange, diving mammals, diving birds, hibernation, oxygen storage, human physiology, redistribution of oxygenated blood and 'master switch of life' 1963 Dec p 92–106 selective service, exemptions for scientists 1949 Aug p 22 draft and college attendance 1951 Sept p 48 no science exemptions 1954 Aug p 38 discrimination by class and race 1967 May p 54 self-disclosure, social psychology, interpersonal relationships, idiosyncracy in self-disclosure 1958 May p 77–82 self esteem, behavior, child development, personality 1968 Feb p 96–106 [511] self-regulation, cybernetics, feedback, automatic control, computer science, automata theory, mechanical, biological, social self-regulation 1948 Nov p 14–19 automatic control, automata theory, information theory, feedback, introduction to single-topic issue on automatic control 1952 Sept p 44–47 self-reproducing machine, feedback, computer science, von Neumann machine, automata theory, Turing machine, 'artificial living plants'
combustion, biosphere, atmosphere, carbon dioxide 1970 Sept p 125–132 [1193] continental evolution, geosyncline, mountain formation, plate tectonics, Apallachian foldbelt 1972 Mar p 30–38 [899] sedimentation, ultracentinfuge, molecular weight, fractionation, oil drive, air drive, magnetic suspension, 900,000 g, 60 million r p m 1951 June p 42–51 Earth crust, continental evolution, volcanoes, island arcs, origin of the continents 1955 Sept p 62–66 [816] Seebeck effect, thermoelectricity, semiconductor, Peltier effect 1958 Nov p 31–37 seed, germination, sprout after 800 year 1951 Nov p 34 germination, artic lipine after 10,00 years 1967 Dec p 55 seed dispersal, adaptation, germination, dormancy Negro, metropolitan segregation 1957 Oct p 33–41 racial discrimination, American Negro, Puerto Ricans, housing, poverty 1965 Aug p 12–19 [626] racial discrimination, prejudice, American Negro, public opinion, attitude survey, U S whites, integration, longitudinal attitude study	gas exchange, diving mammals, diving birds, hibernation, oxygen storage, human physiology, redistribution of oxygenated blood and 'master switch of life' selective service, exemptions for scientists draft and college attendance no science exemptions discrimination by class and race self-disclosure, social psychology, interpersonal relationships, idiosyncracy in self-disclosure self-disclosure, social psychology, interpersonal relationships, idiosyncracy in self-disclosure self-seteem, behavior, child development, personality self-regulation, cybernetics, feedback, automatic control, computer science, automata theory, mechanical, biological, social self-regulation 1948 Nov p 14–19 automatic control, automata theory, information theory, feedback, introduction to single-topic issue on automatic control 1952 Sept p 44–47 self-reproducing machine, feedback, computer science, von Neumann machine, automata theory, Turing machine, 'artificial living plants' 1956 Oct. p 118–126 molecular replication, automata theory, computer technology, machine
combustion, biosphere, atmosphere, carbon dioxide 1970 Sept p 125–132 [1193] continental evolution, geosyncline, mountain formation, plate tectonics, Apallachian foldbelt 1972 Mar p 30–38 [899] sedimentation, ultracentrifuge, molecular weight, fractionation, oil drive, air drive, magnetic suspension, 900,000 g, 60 million r p m 1951 June p 42–51 Earth crust, continental evolution, volcanoes, island arcs, origin of the continents 1955 Sept p 62–66 [816] Seebeck effect, thermoelectricity, semiconductor, Peltier effect 1958 Nov p 31–37 seed, germination, sprout after 800 year 1951 Nov p 34 germination, artic lupine after 10,00 years 1967 Dec p 55 seed dispersal, adaptation, germination, dormancy 1959 Apr p 75–84 segregation, cities, racial discrimination, social geography, American Negro, metropolitan segregation 1957 Oct p 33–41 facial discrimination, American Negro, Puerto Ricans, housing, poverty 1965 Aug p 12–19 [626] facial discrimination, prejudice, American Negro, public opinion, attitude survey, U S whites, integration, longitudinal attitude study 1978 June p 42–49 [707] seiches, tsunamis, ocean waves, surf. breakers, generation and	gas exchange, diving mammals, diving birds, hibernation, oxygen storage, human physiology, redistribution of oxygenated blood and 'master switch of life' selective service, exemptions for scientists draft and college attendance discrimination by class and race self-disclosure, social psychology, interpersonal relationships, idiosyncracy in self-disclosure self-esteem, behavior, child development, personality 1968 Feb p 96–106 [511] self-regulation, cybernetics, feedback, automatic control, computer science, automata theory, mechanical, biological, social self-regulation automatic control, automata theory, information theory, feedback, introduction to single-topic issue on automatic control self-reproducing machine, feedback, computer science, von Neumann machine, automata theory, Turing machine, 'artificial living plants' molecular replication, automata theory, computer technology, machine models of molecular assembly 1959 Department of the production of the production of the plants' and the production to the plants' living plant
combustion, biosphere, atmosphere, carbon dioxide 1970 Sept p 125–132 [1193] continental evolution, geosyncline, mountain formation, plate tectonics, Apallachian foldbelt 1972 Mar p 30–38 [899] sedimentation, ultracentinfuge, molecular weight, fractionation, oil drive, air drive, magnetic suspension, 900,000 g, 60 million r p m 1951 June p 42–51 Earth crust, continental evolution, volcanoes, island arcs, origin of the continents 1955 Sept p 62–66 [816] Seebeck effect, thermoelectricity, semiconductor, Peltier effect 1958 Nov p 31–37 seed, germination, sprout after 800 year 1951 Nov p 34 germination, artic lupine after 10,00 years 1967 Dec p 55 seed dispersal, adaptation, germination, dormancy 1959 Apr p 75–84 segregation, cities, racial discrimination, social geography, American Negro, metropolitan segregation 1957 Oct p 33–41 racial discrimination, American Negro, Puerto Ricans, housing, poverty 1965 Aug p 12–19 [626] racial discrimination, prejudice, American Negro, public opinion, attitude survey, U S whites, integration, longitudinal attitude study 1978 June p 42–49 [707] seiches, isunamis, ocean waves, surf, breakers, generation and propagation of ocean waves.	gas exchange, diving mammals, diving birds, hibernation, oxygen storage, human physiology, redistribution of oxygenated blood and 'master switch of life' selective service, exemptions for scientists draft and college attendance discrimination by class and race self-disclosure, social psychology, interpersonal relationships, idiosyncracy in self-disclosure self-desem, behavior, child development, personality 1968 Feb p 96–106 [511] self-regulation, cybernetics, feedback, automatic control, computer science, automata theory, mechanical, biological, social self-regulation automatic control, automata theory, information theory, feedback, introduction to single-topic issue on automatic control self-reproducing machine, feedback, computer science, von Neumann machine, automata theory, Turing machine, 'artificial living plants' molecular replication, automata theory, computer technology, machine models of molecular assembly 1959 June p 105–114 [74] biological sciences, mathematics, per elements of explants and the properties and the properties and the properties are all properties and the properties and the properties are all properties and the prop
combustion, biosphere, atmosphere, carbon dioxide 1970 Sept p 125–132 [1193] continental evolution, geosyncline, mountain formation, plate tectonics, Apallachian foldbelt 1972 Mar p 30–38 [899] sedimentation, ultracentinfuge, molecular weight, fractionation, oil drive, air drive, magnetic suspension, 900,000 g, 60 million r p m 1951 June p 42–51 Earth crust, continental evolution, volcanoes, island arcs, origin of the continents 1955 Sept p 62–66 [816] Seebeck effect, thermoelectricity, semiconductor, Peltier effect 1958 Nov p 31–37 seed, germination, sprout after 800 year 1951 Nov p 34 germination, artic lupine after 10,00 years 1967 Dec p 55 seed dispersal, adaptation, germination, dormancy 1959 Apr p 75–84 segregation, cities, racial discrimination, social geography, American Negro, metropolitan segregation 1957 Oct p 33–41 racial discrimination, American Negro, Puerto Ricans, housing, poverty 1965 Aug p 12–19 [626] racial discrimination, prejudice, American Negro, public opinion, attitude survey, U S whites, integration, longitudinal attitude study 1978 June p 42–49 [707] seiches, isunamis, ocean waves, surf, breakers, generation and propagation of ocean waves.	gas exchange, diving mammals, diving birds, hibernation, oxygen storage, human physiology, redistribution of oxygenated blood and 'master switch of life' 1963 Dec p 92–106 selective service, exemptions for scientists 1949 Aug p 22 draft and college attendance 1951 Sept p 48 no science exemptions 1954 Aug p 38 discrimination by class and race 1967 May p 54 self-disclosure, social psychology, interpersonal relationships, idiosyncracy in self-disclosure 1958 May p 77–82 self esteem, behavior, child development, personality 1968 Feb p 96–106 [511] self-regulation, cybernetics, feedback, automatic control, computer science, automata theory, mechanical, biological, social self-regulation 1948 Nov p 14–19 automatic control, automata theory, information theory, feedback, introduction to single-topic issue on automatic control 1952 Sept p 44–47 self-reproducing machine, feedback, computer science, von Neumann machine, automata theory, Turing machine, 'artificial living plants' 1956 Oct. p 118–126 molecular replication, automata theory, computer technology, machine models of molecular assembly 1959 June p 105–114 [74] biological sciences, mathematics, nerve impulse, predation, Turing machine, automata theory, mathematics in biology
combustion, biosphere, atmosphere, carbon dioxide 1970 Sept p 125–132 [1193] continental evolution, geosyncline, mountain formation, plate tectonics, Apallachian foldbelt 1972 Mar p 30–38 [899] sedimentation, ultracentinfuge, molecular weight, fractionation, oil drive, air drive, magnetic suspension, 900,000 g, 60 million r p m 1951 June p 42–51 Earth crust, continental evolution, volcanoes, island arcs, origin of the continents 1955 Sept p 62–66 [816] Seebeck effect, thermoelectricity, semiconductor, Peltier effect 1958 Nov p 31–37 seed, germination, sprout after 800 year 1951 Nov p 34 germination, artic lupine after 10,00 years 1967 Dec p 55 seed dispersal, adaptation, germination, dormancy 1959 Apr p 75–84 segregation, cities, racial discrimination, social geography, American Negro, metropolitan segregation 1957 Oct p 33–41 racial discrimination, American Negro, Puerto Ricans, housing, poverty 1965 Aug p 12–19 [626] racial discrimination, prejudice, American Negro, public opinion, attitude survey, U S whites, integration, longitudinal attitude study 1978 June p 42–49 [707] seiches, tsunamis, ocean waves, surf, breakers, generation and	gas exchange, diving mammals, diving birds, hibernation, oxygen storage, human physiology, redistribution of oxygenated blood and 'master switch of life' 1963 Dec p 92–106 selective service, exemptions for scientists 1949 Aug p 22 draft and college attendance 1951 Sept p 48 no science exemptions 1954 Aug p 38 discrimination by class and race 1967 May p 54 self-disclosure, social psychology, interpersonal relationships, idiosyncracy in self-disclosure 1958 May p 77–82 self esteem, behavior, child development, personality 1968 Feb p 96–106 [511] self-regulation, cybernetics, feedback, automatic control, computer science, automata theory, mechanical, biological, social self-regulation 1948 Nov p 14–19 automatic control, automata theory, information theory, feedback, introduction to single-topic issue on automatic control 1952 Sept p 44–47 self-reproducing machine, feedback, computer science, von Neumann machine, automata theory, Turing machine, 'artificial living plants' 1956 Oct. p 118–126 models of molecular assembly 1959 June p 105–114 [74] biological sciences, mathematics, nerve impulse, predation, Turing machine, automata theory, mathematics in biology
combustion, biosphere, atmosphere, carbon dioxide 1970 Sept p 125–132 [1193] continental evolution, geosyncline, mountain formation, plate tectonics, Apallachian foldbelt 1972 Mar p 30–38 [899] sedimentation, ultracentrifuge, molecular weight, fractionation, oil drive, air drive, magnetic suspension, 900,000 g, 60 million r p m 1951 June p 42–51 Earth crust, continental evolution, volcanoes, island arcs, origin of the continents 1955 Sept p 62–66 [816] Seebeck effect, thermoelectricity, semiconductor, Peltier effect 1958 Nov p 31–37 seed, germination, sprout after 800 year 1951 Nov p 34 germination, artic lupine after 10,00 years 1967 Dec p 55 seed dispersal, adaptation, germination, dormancy 1959 Apr p 75–84 segregation, cities, racial discrimination, social geography, American Negro, metropolitan segregation 1957 Oct p 33–41 racial discrimination, American Negro, Puerto Ricans, housing, poverty 1965 Aug p 12–19 [626] racial discrimination, prejudice, American Negro, public opinion, attitude survey, U S whites, integration, longitudinal attitude study 1978 June p 42–49 [707] seiches, Isunamis, ocean waves, surf, breakers, generation and propagation of ocean waves 1959 Aug p 74–84 [828] Seine River source, Celtic religion, Gauls in France, shrine of Sequana	gas exchange, diving mammals, diving birds, hibernation, oxygen storage, human physiology, redistribution of oxygenated blood and 'master switch of life' 1963 Dec p 92–106 selective service, exemptions for scientists 1949 Aug p 22 draft and college attendance 1951 Sept p 48 no science exemptions 1954 Aug p 38 discrimination by class and race 1967 May p 54 self-disclosure, social psychology, interpersonal relationships, idiosyncracy in self-disclosure 1958 May p 77–82 self esteem, behavior, child development, personality 1968 Feb p 96–106 [511] self-regulation, cybernetics, feedback, automatic control, computer science, automata theory, mechanical, biological, social self-regulation 1948 Nov p 14–19 automatic control, automata theory, information theory, feedback, introduction to single-topic issue on automatic control 1952 Sept p 44–47 self-reproducing machine, feedback, computer science, von Neumann machine, automata theory, Turing machine, 'artificial living plants' 1956 Oct. p 118–126 molecular replication, automata theory, computer technology, machine models of molecular assembly 1959 June p 105–114 [74] biological sciences, mathematics, nerve impulse, predation, Turing machine, automata theory, mathematics in biology

المراجع المراج

semiconductor, solar battery, solid state physics, photoelectric effect, Pacinian corpuscle, touch, olfactory receptors, taste receptors, energy transformation 1955 Dec. p. 102-110 mechanoreceptors pain receptors, biological transducers thermoelectricity, Seebeck effect, Peltier effect 1958 Nov. p 31-37 particle detector, particle physics, solid state physics, particle 1960 Aug. p 98-108 [70] human eye, optical illusion, vision, 'after effects', visual cortex, 'corucal accelerator, semiconductor particle-detector satiation' 1962 Jan p 44-49 1962 Oct p 78-88 [284] offactory nerve, stereochemistry, offaction, stereochemical theory of superconductivity, superconductivity in semiconductors odor perception 1964 Feb p 42-49 1964 June p. 56-59 human anatomy, neuropsychology, eye, ear, Descartes, 17th c light-emitting diode, laser, electron beam, junction diode, solid-state approach to human perception, mechanistic hypothesis 1967 May p 108-122 crystal structure, solid-state electronics, X-ray crystallography, metals, 1964 May p 108-116 [184] kinesthetic memory, spatial orientation, sensory feedback, plasticity in nonmetals, materials technology, amorphous solid, electrical sensory-motor systems in man and cats 1965 Nov p 84-94 [494] conductivity 1967 Sept p 80-89 learning, vision, touch, visual perception dominates touch electrical conductivity, Fermi surface, materials technology, quantum 1967 May p 96-104 [507] mechanics, charge carriers, electron mean free path, electrical see also perception, visual perception and the like properties of materials 1967 Sept p 194-204 sensory systems, animal behavior, sharks, attack prevention, feeding accelerated-ion technique, ion implantation, microelectronics, 'doping' behavior 1962 July p 60-68 [127] 1973 Apr p 64-71 brain circuitry, mammalian brain, nerve signals, stimulus localization, electromagnetic radiation, electron-hole liquid, exciton, quantum visual perception, superior colliculus in integration at brain function mechanics 1976 June p 28-37 1972 Dec p 72-82 [553] room temperature and organic 1960 June p 82 sentence, grammar, truth, logic, philosophy, metalogic, mathematical ace also amorphous semiconductors proof, antimony of the liar, proof and truth 1969 June p 63-77 semiconductor memories, charge-coupled devices, charge transfer, sentry-box experiment, Franklin, science history, electrical nature of computer memory, image sensing 1974 Feb p 22-31 lightning, 'electrical fluid', Benjamin Franklin, life and work charge-coupled devices, digital computer, magnetic bubble memories, 1948 Aug p 36-43 moving-surface memories, microelectronics seond sound, superfluidity, helium 1, helium 2, quantum mechanics, low-1977 Sept p. 130-145 [378] temperature physics, liquid helium properties semiconductor technology, electric power generation, photovoltaic 1958 June p 30-35 [224] conversion, silicon-crystal structure, solar cells 1976 Oct p 34-43 separation techniques, spectroscopy, mass spectroscopy, ion beam amorphous semiconductors, nonperiodic systems, Ovshinsky devices, 1953 Mar p 68-74 quantum mechanics, switching phenomena density-gradient, ultracentrifugation 1965 Aug p 70-76 1977 May p 36-48 [362] high-gradient magnetic separation, kaolin punfication, magnetic 1975 Nov p 46-54 integrated circuits, logic gates, metal-oxide semiconductors, separation, wastewater purification 1955 Feb p 60 microelectronics, transistor 1977 Sept p 70-81 [375] pH gradient sequential analysis, quality control, statistical sampling, probability semicrystalline polymers, amorphous polymers, polymer microstructure, 1953 Mar p 29-33 random-coil model, synthetic polymers, thermoplastic polymers 1975 Dec p 96-106 sequential processing, computer technology, computer programming, semimetal, crystallography, magnetothermoelectricity, thermomagnetic parallel processing, ILLIAC IV fastest computer 1971 Feb p 76-87 cooling, solid-state refrigeration 1964 June p 70-82 sequestering, chelation, metal ions, ring compounds, porphyrin ring, Semites, Mycenaean civilization, Hebrew civilization, Linear A script, Linear B script, Minoan civilization, Crete, common origin of Greek organometallic compounds, metal-poisoning antidote, chemical 1953 June p 68-76 and Hebrew civilizations 1965 Feb p 102-111 serial passage, poliomyelitis virus, tissue culture, rhesus embryo, polio Sendai virus, cell culture, cell hybridization, cell differentiation, hybrid vaccine, tissue culture of virus opens way to vaccine cells, gene mapping, mouse-rat, mouse-human hybrid cells in 1952 Nov p 26-29 1969 Apr p 26-35 [1137] laboratory serial-recognition hypothesis, eye movement, pattern recognition, scan senility, aging, gerontology, longevity, medical care 1973 Sept p 44-52 1971 June p 34-43 [537] path recordings, visual perception senior societies, elections to National Academy of Sciences and American serotonin, acetylcholine, hormone, nerve impulse, synapse, emotional 1949 June p 28 Philosophical Society illness, neurotransmitters, central nervous system, physiological sensory deprivation, vision, learning, experience, 'arrested vision', role of psychology, chemical mediation of nerve impulses environment experience in normal development 1957 Feb p 86-94 1950 July p 16-19 [408] auxins, LSD, comparative physiology, neurophysiology, physiological electroencephalography, perceptual isolation, hallucination, boredom, 1957 Dec p 52-56 neuropsychology, effect of exposure to monotonous environment function of serotonin adrenal gland, pineal organ, biological clock, estrogens, progesterone, 1957 Jan p 52-56 [430] melatonin, pineal regulation of sex glands 1965 July p 50-60 [1015] brain development, environmental stimuli, learning, memory, rats brain function, carbohydrate, neurotransmitters, human nutrition, 1972 Feb p 22-29 [541] 1974 Feb p 84-91 [1291] tryptophan, feedback sensory discrimination, afterimages, color vision, photochemistry, visual serum protein analysis, human population, genetic drift, race, population pigments, photochemistry of color perception 1974 Sept p 80-89 genetics 1963 Oct p 84-93 [1089] serum proteins, catalytic proteins, enzyme action, protein cutting sensory feedback, kinesthetic memory, sensory perception, spatial enzymes, proteolytic enzymes, chymotrypsin, elastase, trypsin orientation, plasticity in sensory-motor systems in man and cats 1974 July p 74-88 [1301] 1965 Nov p 84-94 [494] serum sickness, allergy, immune reaction, antigens, antibodies, 1971 Mar p 65-73 [1217] muscle contraction, physiological tremor 1948 July p 26-29 hypersensitivity muscle control, muscle spindles, psychophysics, servomechanisms, service workers, labor force, productivity, production workers 1972 May p 30-37 [1249] stretch reflex, tendon organ 1951 Sept p 36-41 coordination of movement, eye head coordination, visual targeting servomechanisms, feedback, control loop, flyball governor, positive 1974 Oct p 100-106 [1305] feedback, negative feedback, ecological system, nervous system, sensory organs, hearing, vision, ommatidia, neuroreceptor cells, cytology, economic system, automatic control, feedback concept 1961 Sept p 222-238 [99] taste buds, how cells receive stimuli 1952 Sept p 48-55 heat sensors, infrared receptors, snake, infrared laser, herpetology control systems, automatic control, actuators, frequency response, 1973 May p 94-100 [1272] pneumatic servomechanisms, hydraulic servomechanisms, control sensory perception, genetic disease, inherited sense defects 1952 Sept p 56-64 1952 May p 64-70 [406] systems muscle control, muscle spindles, psychophysics, sensory feedback, auditory discrimination, bats, bat sonar, sonar, echo-sounding, 1972 May p 30-37 [1249] stretch reflex, tendon organ 1958 July p 40-49 [1121] automatic control, computer technology, instructable machines, robot supersonic sonar of bats 1976 Feb p 76-86B systems

set theory, mathematics, logic, paradox, non-Euclidian space, non-	baboons, human evolution, social behavior, comparative psychology,
commutative algebra, Hilbert spaces, science, mathematics 1900-	social anthropology, Kung bushmen, origin of society
1950, undecidable questions 1950 Sept p 40-42	1960 Sept p 76–87 [602]
infinity, equivalent sets, cardinal number, Cantor 1952 Nov p 76-84	baboons, social behavior, comparative psychology, baboon troops in
creativity, mathematical invention, analytic geometry, Fermat's last	their natural environment 1961 June p 62–71 [614]
theorem, innovation in mathematics 1958 Sept p 66-73	animal behavior, evolution, innate behavior, lovebird, interspecies
mathematical proof, foundations of mathematics, mathematical	differentiation of behavior 1962 Jan p 88–98
philosophy 1964 Sept p 112-127	pheromones, insect physiology, queen substance, muskone, social
botany, taxonomy, computer applications, zoology, numerical	behavior, ants, Gypsy moths, mice 1963 May p 100-114 [157]
taxonomy, computer classification of living things	arena behavior, bowerbirds, animal behavior, courtship display,
1966 Dec p 106-116 [1059]	releaser stimulus, ethology, natural history
mathematics, non-Cantorian sets, Russell's paradox, Cantor, non-	1963 Aug p 38-46 [1098]
Euclidian geometry, axiom of choice 1967 Dec p 104-116	avian reproduction, ring dove, breeding cycle, hormone, fertilization
continuum hypothesis and axiom of choice 1964 Jan p 55	1964 Nov p 48-54 [488]
sewage disposal, air pollution, cities, water supply, smog, water pollution,	animal migration, animal navigation, turtles, telemetry, nesting,
taxation, Los Angeles, New York, metabolism of cities	Chelonia mydas, green turtle, 1,400 mile journey
1965 Sept p 178–190	1965 May p 78-86 [1010]
sewage treatment, water pollution, biological oxygen demand, radioactive	animal behavior, speciation, gulls, evolution, innate behavior, ethology,
waste disposal, stream pollution 1952 Mar p 17-21	species discrimination, Larus, eye rings 1967 Oct p 94-102 [1084]
phosphorus from sewage 1950 Apr p 34	mosquitoes, yellow fever, reproduction, eggs, larvae, Aedes Aegypti
conversion by algae 1952 Aug. p 32	1968 Apr p 108-116
foaming detergents 1953 July p 48	marine birds, phalarope, animal behavior, parental care, sex role,
sex attractants, insect behavior, bee dances, pheromones, courtship	hormone 1969 June p 104-111
display 1972 Sept p 52-60 [1280]	fruit fly, releaser stimulus, courtship song, insect behavior, species
gypsy moth, biological pest control, pheromones, olfactory receptors,	specificity 1970 July p 84-92
silk moth, chemotaxis, communication 1974 July p 28–35 [1299]	albatross, evolution, animal behavior, bird flight, soaring, natural
sex change surgery, psychology should govern 1951 Apr p 35	history 1970 Nov p 84–93 [1204]
sex chromatin, in female skin cells 1954 Dec p 58	animal behavior, courtship display, turkeys, pecking order, lek
sex determination, electrophoresis, spermatozoon motility, gene	behavior, Welder Wildlife Refuge 1971 June p 112-118
manipulation, sorting out Y-bearing sperm by electrophoresis	birds, finches, numicry, parasitism, widow birds, animal behavior
1958 Nov p 87–94	1974 Oct p 92–98
sex differences, Barr body, chromosome, genetic mosaic, cytology,	adrenal hormones, brain circuitry, gonadal hormones, hormone-
Klinefelter's syndrome, Turner's syndrome, chromosomal anomalies,	sensitive neurons, sex hormones, sex differences, steroid hormones,
sex differences in tissue cells 1963 July p 54–62 [161]	action of hormones on nerve tissue 1976 July p 48-58 [1341]
animal behavior, hypothalamus, testosterone, physiological	lek behavior, sage grouse, natural selection, lek mating behavior in sage
psychology, sex hormones, pituitary hormones, sex differences in rat	grouse 1978 May p 114-125 [1390]
brain, effect of testosterone 1966 Apr p 84-90 [498]	human sexual response 1966 June p 54
adrenal hormones, brain circuitry, gonadal hormones, hormone-	sexual characteristics, ACTH, hormone, growth, thyroid-stimulating
sensitive neurons, sex hormones, sexual behavior, steroid hormones,	hormone, follicle-stimulating hormone, prolactin, androgens,
action of hormones on nerve tissue 1976 July p 48-58 [1341]	estrogens, secondary sexual characteristics, human physiology,
in spatial perception 1974 Nov p 50	endocrine system, chemical integrators of the body
sex hormones, steroid hormones, vitamin D, cholesterol, cortisone	1957 Mar p 76-88 [1122]
1955 Jan p 52–60 [8]	sexual recombination, population genetics, evolution, E coli, Drosophila,
animal behavior, sex differences, hypothalamus, testosterone,	mutation, speciation, natural selection, genetic basis of evolution
physiological psychology, pituitary hormones, sex differences in rat	1950 Jan p 32-41 [6]
brain, effect of testosterone 1966 Apr p 84-90 [498]	sexual reproduction, bacteriophage, genetic exchange 1948 Nov p. 46-51
birth control, reproductive physiology, human population	heredity, evolution, origin of sexual reproduction 1949 Apr p 52-55
1974 Sept p 52–62	bacteria, conjugation, recombinant DNA, gene recombination,
adrenal hormones, brain circuitry, gonadal hormones, hormone-	sexuality in bacteria 1956 July p. 109-118 (50)
sensitive neurons, sexual behavior, sex differences, steroid hormones,	spiders, leeches, spermatozoon transfer, sponges, bedbugs, unorthodox
action of hormones on nerve tissue 1976 July p 48-58 [1341]	memods of sperm transfer 1956 Nov p. 121_122
from tomatoes 1951 May p 36	Hydra, asexual reproduction, cell differentiation, growth regulation,
sex linked traits, cytoplasmic inheritance, reciprocal crossing, maternal	carbon dioxide as 'sex gas' 1959 Apr p 145-156
inheritance, non-Mendelian inheritance, male sterility, paramecium,	tertilization, sea urchin, spermatozoon, acrosome reaction, moment of
chloroplast, plastids, cytogene, review of evidence for an extra- chromosomal genetics 1950 Nov p 30-39 [39]	fertilization 1959 July p 124–134
color blindness, dichromatism, physiology and psychology of a vision	fertilization, ionic regulatory mechanisms
defect 1951 Mar p 48–53	Sev fort galaxies, guessers, and a several sev
sex role, marine birds, phalarope, sexual behavior, animal behavior,	Seyfert galaxies, quasars, galactic nucleus, radio emission
parental care, hormone 1969 June p 104–111	galactic center Milly, West and 1969 Jan p 28-37
developed countries, labor force, human population, women's status	galactic center, Milky Way, quasars, radio source, Sagittarius A. 50-37 galaxies
1974 Sept p 136-147	galaxies 1974 Apr p 66-77 shad migration, animal navigation, chemotaxis, herring, homing behavior,
housework time spent in housework 1974 Nov p 116–120	temperature as migration control 1973 Mar p 92-98 (1268)
developing countries, UN conference on women's role	temperature as migration control 1973 Mar p 92-98 [1268] shadow photography, shock waves, speed of sound, Mach cones,
1975 Sept p 53	aerodynamics, ballistics 1949 Nov. p. 14.10
housework increase 1976 Apr. p. 61	shadow-sensitive receptors, visual perception, visual systems, scallop, surf
female-role ideology, women's aspirations, attitude survey	clam, inhibitory impulse, invertebrate 'eyes' as models for study of
1972 Ian n 3d_12	
sexton, abacus calculating machine, Galileo's sexton, mechanical	Organization of sensation in netcention 1062 tules 122 100
calculators, slide rule 1976 Apr. n. 101_113	shagbark hickory, hickory, fences, axe-handles, smoled ham, held-
Sexual haborron animaking	shagbark hickory, hickory, fences, axe-handles, smoked ham, hickory nuts, economic botany, forest natural bettory.
sexual behavior, courtship display, animal behavior 1950 July p. 52-55	shagbark hickory, hickory, fences, axe-handles, smoked ham, hickory nuts, economic botany, forest, natural history Shakespeare as physicist, anticipator of wireless relativity at the state of the sta
sexual behavior, courtship display, animal behavior 1950 July p 52-55 stickleback, courtship display, animal behavior, displacement activity,	shagbark hickory, hickory, fences, axe-handles, smoked ham, hickory nuts, economic botany, forest, natural history 1948 Sept p 40-43 Shakespeare as physicist, anticipator of wireless, relativity, atom bomb, a report from S. Holmes himself.
sexual behavior, courtship display, animal behavior 1950 July p 52-55 stickleback, courtship display, animal behavior, displacement activity, ethology	shagbark hickory, hickory, fences, axe-handles, smoked ham, hickory nuts, economic botany, forest, natural history 1948 Sept p 40-43 Shakespeare as physicist, anticipator of wireless, relativity, atom bomb, a report from S Holmes himself 1951 Apr p 52-53 shale, fossil fuel, petroleum reserves, coal reserves.
sexual behavior, courtship display, animal behavior 1950 July p 52-55 stickleback, courtship display, animal behavior, displacement activity, ethology 1952 Dec p 22-26 [414] bowerbirds, courtship display, animal behavior, arena behavior, Australian bowerbird, natural history 1056 July p 52-55	shagbark hickory, hickory, fences, axe-handles, smoked ham, hickory nuts, economic botany, forest, natural history 1948 Sept p 40-43 Shakespeare as physicist, anticipator of wireless, relativity, atom bomb, a report from S Holmes himself 1951 Apr p 52-53 shale, fossil fuel, petroleum reserves, coal reserves, energy consumption, hquid-fuel consumption, tar sands, coal liquifaction, the fuel
sexual behavior, courtship display, animal behavior 1950 July p 52-55 stickleback, courtship display, animal behavior, displacement activity, ethology 1952 Dec p 22-26 [414] bowerbirds, courtship display, animal behavior, arena behavior, Australian bowerbird, natural history 1056 July p 52-55	shagbark hickory, hickory, fences, axe-handles, smoked ham, hickory nuts, economic botany, forest, natural history 1948 Sept p 40-43 Shakespeare as physicist, anticipator of wireless, relativity, atom bomb, a report from S Holmes himself 1951 Apr p 52-53 shale, fossil fuel, petroleum reserves, coal reserves, energy consumption, hquid-fuel consumption, tar sands, coal liquefaction, the fuel problem
sevual behavior, courtship display, animal behavior 1950 July p 52-55 stickleback, courtship display, animal behavior, displacement activity, ethology 1952 Dec p 22-26 [414] bowerbirds, courtship display, animal behavior, arena behavior, Australian bowerbird, natural history 1956 June p 48-52 penguin behavioral adaptation, Antarctica, natural history	shagbark hickory, hickory, fences, axe-handles, smoked ham, hickory nuts, economic botany, forest, natural history 1948 Sept p 40-43 Shakespeare as physicist, anticipator of wireless, relativity, atom bomb, a report from S. Holmes himself 1951 Apr p 52-53 shale, fossil fuel, petroleum reserves, coal reserves, energy consumption, hquid-fuel consumption, tar sands, coal liquefaction, the fuel problem 1949 Dec p 32-39 shale retorts, energy economics, tar sands, oil chalse retorts.
sexual behavior, courtship display, animal behavior 1950 July p 52-55 stickleback, courtship display, animal behavior, displacement activity, ethology 1952 Dec p 22-26 [414] bowerbirds, courtship display, animal behavior, arena behavior, Australian bowerbird, natural history 1956 [416]	shagbark hickory, hickory, fences, axe-handles, smoked ham, hickory nuts, economic botany, forest, natural history 1948 Sept p 40-43 Shakespeare as physicist, anticipator of wireless, relativity, atom bomb, a report from S Holmes himself 1951 Apr p 52-53 shale, fossil fuel, petroleum reserves, coal reserves, energy consumption, liquid-fuel consumption, tar sands, coal liquefaction, the fuel

shale rotors, oil shales, mining, energy resources, fossil fuel, oil from	metacetta avaludas as
30000	meteorites, exploding wire, streak photography, generation of shock waves by exploding wire 1962 May p. 102-112
Shanidar cave, Neanderthal man, human evolution, Neolithic archeolog layer by layer, 100,000 years occupation by man 1957 Nov p 58-	y, gas compression, shock tube, high temperature plasma mechanically
simily to rise nousing, kind asc. population density for those government	and electromagnetically driven shock waves 1963 Feb 2 100 110
regulation, urban prinning, cities, control of land use	the solar system
Calcutta cities urbanication cata house 1965 Sept. p. 150-16	(A)
Calcutta, cities, urbanization, caste, housing, poverty, traffic, Calcutta a city of the poor 1965 Sept. p. 90-10	1969 May p 82-91
squatters, land use, urban sociology, housing, 'barriadas' of Lima, Per	
1967 Oct n. 217	formation, stellar evolution, birth of massive stars 1978 Apr p 110-118 [3005]
shape, topology, polygons, polyhedra, tessellation, space-filling	shoot tension, Hales, plants, root pressure, sap circulation, science
shaped field, electromagnetism, superconductivity, magnetic bottle,	history, Stephen Hales, founder of biophysics 1952 Oct p 78-82
materials technology, development and applications of supermagnet	short-term inchery, conditioned behavior, learning, long-term memory, lobotomy, octopus, touch, sensory perception, correlation of brain
1962 June p 60-67 [279	structure and function in octopus 1965 Mar p 42-50 [1006]
sharks, incidence of attacks on humans 1957 June p 54-6 animal behavior, attack prevention, sensory systems, feeding behavior	digit recall, long-term memory, memory, tachistoscope
1962 July p. 60-68 1127	1966 July p 90-95 [499] Information retrieval, learning, long-term memory, memory
shatter cones, coesite, meteorites, astroblemes, cratering, fossil Earth-	1971 Aug n 82-90 [538]
catastrophes 1961 Aug p 50-58 [80] sheep shearing, hair-cell growth inhibited by drug 1968 Dec p 50	shrews, body temperature, metabolism, thermoregulation, surface to-
sheep shearing, hair-cell growth inhibited by drug 1968 Dec p 50 sheet erosion, rain drop, elutriation, soil erosion, micromechanics of soil	
erosion 1948 Nov. p. 40–42	shrimp, 'false bottom', marine biology, plankton, sonar, heteropod, deep- sea scattering layer, deep-sea 'layer of life' 1951 Aug. p 24-28
sheet-metal production, circle-grid analysis, crystal structure, metal	Siamese cat, albinism, gene mutation, visual cortex, white mink, white
stamping, strain hardening, metal structure 1976 Nov p 100-108 shelf sediments, continental shelf, glaciation, ocean, marine geology	tiger, cross-eyed trait 1974 May p 44-54 [1294]
1969 Sept p 106–122 [882]	Siberia, Arctic, Stone Age hunters, Alaska, Greenland, Dorset culture, circumpolar Stone Age culture 1954 June p 82-88
shell hypothesis, spectroscopy, Doppler effect, red shift, quasars, radio	Scythian culture, tombs, refrigerated tombs, archeology, Altai
source, absorption lines clue to quasar structure 1970 Dec p 22-29	Mountains, cloth, leather and wood artifacts preserved by
shell model, atomic nucleus, 'magic numbers', spin-orbit coupling, table of isotopes 1951 Mar p 22-26	refrigeration 1965 May p 100-109 Paleolithic culture, rock drawings, petroglyphs, Paleolithic, Neolithic
atomic nucleus, optical model, high-energy physics, liquid-drop model,	periods 1969 Aug. p 74-82 [649]
charge exchange, spin-orbit force, resonance 'particles', proton,	sickle cell disease, malaria, amino-acid substitution, anemia, hemoglobin
neutron, structure of the nucleus 1959 Jan p 75-82 nuclear fission, heavy nuclei, liquid-drop model, neutron, uranium 235,	1951 Aug p 56-59 anemia, hemoglobin S, human evolution, malaria hematology, adaptive
fission fragments 1965 Aug p 49–59	benefits of sickle-cell anemia 1956 Aug p 87-94 [1003]
atomic nucleus, nuclear fission, charge distribution, nuclear probe,	erothrocyte, gene mutation, genetic disease, single gene-single
shape and size of nucleus 1969 Aug p 58-73 shelter belts, dust storms, drought, dry-land farming, soil reclamation,	aminoacid deletion 1958 Jan p 68-74 chemotherapy, cyanate, genetic disease, anemia, hemoglobin,
agricultural technology, mulch, U.S. High Plains 1948	erythrocyte 1975 Apr p 44-50 [1319]
1948 Aug p 7–11	in whites 1951 Sept p 58 found in India 1952 May p 42
Sherrington, eye, Charles Scott Sherrington on the eye 1952 May p 30-34	malaria immunity 1954 Apr p 52
ship burial, Sutton Hoo, Anglo-Saxon King, a treasure hoard	anemia, chemical basis of hemoglobin mutation 1957 Aug p 58
1951 Apr p 24-30	Siegfried legend, commerce, Vikings, nomads, Scandinavia, Vinland, seafaring, Svea, appraisal of 400-year Viking ascendance
ship propulsion, electric power generation, steam turbines, turbine blade design, construction of turbines, applications, history	seararing, Svea, appraisar of 400-year viking ascendance
1969 Apr p 100-110	sieve of Eratosthenes, mathematics, prime number, science history,
shipbuilding, Byzantine shipping, Rhodian sea law, underwater	mathematical sieves and their uses 1958 Dec p 105-112 signal behavior, ornithology, crow, animal behavior, language of crows
archeology, shipwreck of 17th century 1971 Aug p 22-33 hipping, cargo handling, containerization, automatic control, loading, air	1959 Nov p 119–131
transport 1968 Oct p 80-88	signal processing, sound waves, communication technology, crystal
hipworm, Teredo, cellulose digestion, natural history 1961 Feb p 132-142	surface waves, electronic equipment, Rayleigh waves, ultrasonic waves 1972 Oct p 50-68
hock, traumatic shock, capillary bed, electrolyte balance, cardiovascular	signal transmission, communication technology, laser, multiplexing,
system, blood transfusion 1952 Dec. p. 62–68	signal transmission by laser 1966 Jan p 19-27 [302] silage, agricultural economics, forage crops, grasses, agronomy, hay.
hibernation, hypothermia, surgery, metabolism, body temperature, artificial lowering of body temperature for surgery and shock	legumes livestock feed niminants. Rhizobium bacteria
1958 Mar p 104–114	1976 Feb p 60-73
homeostasis, wound shock, body fluids, emergency medicine, treatment	'silent majority', public opinion, Vietnam war 1970 June p 17-25 [656] silica-sphere packing, diffraction, gemstones, grain structure, opal colors,
of shock 1958 Dec p 113-124 hock hypothesis, diamond, meteorites, Canyon Diablo meteorite, iron-	periodic structures 1976 Apr p 84-93
nickel phases asteroids, origin of meteorites 1965 Uct p 20-36	silicates, alumnates, materials technology, ceramics, crystal structure, heat resistance, ionic bonds, covalent bonds, nature of ceramics
hock therapy, schizophrenia, psychotherapy, psychoanalysis, psychosurgery, the case for psychotherapy 1953 Jan p 58-63 [447]	1967 Sept p 112-124
to all take heat placing magnetonydrogynamics, solai prominences,	silicon, silicon, polymers, carbon, plastics, silicon in place of carbon 1948 Oct p 50-53
	polymers, silicon, carbon, plastics, silicon in place of carbon
and compression shock waves, high temperature, plasma, mechanisms	1948 Oct p 30-33
and electromagnetically division and electromagnetical division and electromagnetic division and el	elements, living matter, essential elements, metallo enzymes, fluorine, tin, vanadium, list of elements essential to life lengthened to 24
	1972 July p 52-60
aerodynamics, ballistics aerodynamics, supersonic flight, wind tunnel, molecular beam, ultra- aerodynamics, supersonic flight, wind tunnel, molecular beam, ultra- light participation supersonic aircraft	silicon carbide, nonmetallic crystals 1965 Mar p 56 silicon 'chips', integrated circuits, electronic components industry,
some hoom supersonic light, noise polition, supersonic 1	transistor, microelectronics 1965 Nov p 56-70
design, geometry of shock waves	

electron optics, microcircuit fabrication, computer-controlled	skin temperature, anxiety, polygraph, lying, psychosomatic illness, guilt, breathing, pulse rate, 'lie detector' mis-named
fabrication, computer technology, integrated circuits 1972 Nov. p. 34-44	1967 Jan. p. 25–31 [503]
integrated circuits, metal-oxide semiconductors, microelectronics, transistor 1973 Aug. p. 48-57	medical diagnosis, thermography, tumor, arthritis, circulatory disorders 1967 Feb. p. 94-102
integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, microprocessors, minicomputers	skin transplants, graft rejection, immune response, biochemistry of 'self' 1957 Apr. p. 62-66
1975 May p. 32–40	Skinner box, color vision, learning, conditioned behavior, behavioral
electronic circuitry, integrated circuits, microelectronics, technological innovation, introduction to single-topic issue on microelectronics	psychology, visual discrimination, pigeons conditioned to respond to discrete wavelengths of light 1958 Jan. p. 77-82 [403]
1977 Sept. p. 62-69 [374] silicon-crystal structure, electric power generation, photovoltaic	learning, visual perception, Fechner's law, psychophysics, behavioral psychology, conditioned behavior, pigeon perception
conversion, semiconductor technology, solar cells	1961 July p. 113–122 [458]
1976 Oct. p. 34-43	skua, evolution, speciation, guillemot, melanism, ornithology, avian evolution 1957 May p. 124-134
silicon polymers, inorganic polymers, materials technology, polymer structure, polymeric sulfur 1974 Mar. p. 66-74	animal behavior, Antarctica, ornithology, south polar skua
silk moth, gypsy moth, biological pest control, pheromones, olfactory	1964 Feb. p. 94-100
receptors, sex attractants, chemotaxis, communication 1974 July p. 28-35 [1299]	sky survey, Schmidt telescope, astronomy, the 48-inch Schmidt telescope at Palomar Mountain 1950 Dec. p. 34-41
silkworm, insect metamorphosis, neurophysiology, insect behavior,	Palomar telescopes 1954 Aug. p. 38
cocoon, cocoon record of silkworm spinning movements 1956 Apr. p. 131-140	skyscrapers, curtain wall, building construction, load-bearing wall 1955 Mar. p. 44–48
entomology, juvenile hormone, insect metamorphosis, hormone arrests	wind bracing, construction technology, Eiffel Tower, cantilever, truss
development 1958 Feb. p. 67-74	bridge, steel frame construction, curtain wall 1974 Feb. p. 92-105
olfaction, taste, chemical senses, insect chemoreception, comparative physiology 1958 Apr. p. 97-106	slab avalanche, snow, avalanche, loose-snow avalanche 1954 Jan. p. 26–31
silt, eutrophication, water pollution, fisheries, fish population, runoff,	slash-burn agriculture, agricultural revolution, Neolithic archeology,
Great Lakes, U.S. Great Lakes' aging 1966 Nov. p. 94-104 [1056]	tools, cultural evolution, Stone Age forestry and agronomy
silver artifacts, medieval archeology, Scotland, St. Ninian's Isle, the treasure of St. Ninian's 1960 Nov. p. 154-166	1956 Mar. p. 36-41 rain-forest ecosystem, ecological fragility, tropical rain forest, fungal
silver halide, photography, emulsion, photographic development,	hyphae 1973 Dec. p. 58–67 [1286]
photochemistry 1952 Nov. p. 30–33	slave trade, colonization, human population, human migration, immigration policy 1974 Sept. p. 92–105
silver iodide, weather control, cloud seeding, Project Cirrus, condensation nuclei, dry ice 1952 Jan. p. 17–21	immigration policy 1974 Sept. p. 92–105 slavery, agricultural revolution, Classical civilization 1949 June p. 40–43
sine-generated curve, riverbed, meanders, hydraulics, least-work path for	black power, American Negro, racial discrimination, group identity,
river 1966 June p. 60–70 [869] singing voice, music, voice, pharynx, larynx, acoustics of singing voice	economic power, ethnic groups, social deprivation 1967 Apr. p. 21–27 [633]
1977 Mar. p. 82–91	SLBM: submarine-launched ballistic missile
vibrato from feedback control 1959 Mar. p. 66 single-stranded DNA, DNA, phage X174, gene mutation	SLBM, ABM, arms race, ICBM, MIRV, mutual assured destruction, counterforce strategy, strategic balance, national security
1962 July p. 109-116 [128]	1969 Aug. p. 17–29 [330]
singularity, gravity, stellar evolution, space-time continuum, gravitational	arms race, missile submarines, MIRV, Polaris, Trident, Poseidon
collapse, thermal pressure, gravitational radius, black hole 1967 Nov. p. 88–98	missile 1972 June p. 15–27 [344] arms control, antisubmarine warfare, missile submarines, SALT,
sinus node, atrioventricular node, heart contraction, heart rate, cardiac	mutual assured destruction, sonar, acoustic detection
pacemaker 1967 Mar. p. 32-37 [1067] siphons, Roman technology, aqueducts, water-supply system of ancient	1972 July p. 14-25 [345] sleep, biological clock, body temperature, waking
Rome 1978 May p. 154–161 [3009]	1952 Nov. p. 34–38 [431]
sister exchange, Africa, marriage, marriage contracts 1975 Dec. p. 84-94 size constancy, visual perception, optical illusion, distortion, pictures as	hypnosis, suggestibility, physiological psychology, experiments in hypnosis
objects, illusions arise from normally useful mechanisms	electroencephalography, brain waves, learning, conditioned behavior
size perception, visual perception, 'Ames room', distance perception,	correlation of brain waves to behavior 1959 Aug n 80.06
motion perception, optical illusion, illusions as clues to organization	dreams, electroencephalography, REM sleep, function of dreams 1960 Nov. p. 82-88 [460]
of perception 1951 Aug. p. 50-55 skid row, emotional illness, community mental-health centers, drug	stimulus filter 1969 May p. 54
addiction, psychoactive drugs, 'deinstitutionalization' of the	sleep deprivation, cerebrospinal fluid, goat experiments 1976 Aug. p. 24-29 [571]
emotionally ill 1978 Feb. p. 46-53 [581] skin, dermatoglyphics, hair, surface area, skin glands, thermoregulation,	humoral sleep-inducing factor 1967 Oct. p. 56
structure and function of human skin 1965 Feb. p. 56–66 [1003]	sleep peptide, makes sleep contagious 1974 Jan. p. 51 sleep research, dreams, electroencephalography, reticular formation,
cancer, ultraviolet radiation, melanocytes, suntanning, epidermis,	brain waves, paradoxical sleep, REM sleep, cat brain, the states of
bacteria, ectoparasites, fungi, lice, hair, human skin ecosystem	sleep 1967 Feb. p. 62–72 [504]
1969 Jan. p. 108–115 [1132]	pace of dreams over time
dermatoglyphics, epidermal ridges, chromosomal anomalies 1969 Dec. p. 72-84 [1164]	effect of environment on dream 1958 Sept. p. 90
ectoparasites, 'New Year Greeting' a poem by W.H. Auden occasioned	sleepwalkers, do not dream at same time
by article in January 1969 issue 1969 Dec. p. 134 skin color, hyla, chameleon, catfish, chromatophores, how animals	slide rule, abacus, calculating machine, Galileo's sexton, mechanical
change color 1052 Mar n 64-67	sliding surfaces, friction, Leonardo, Coulomb technology history
American Negro, blood typing, recessive gene, maringe preferences, population genetics, genetic meaning of race 1954 Oct. p. 80–85	INDICCULAR CORRESION "CONDUCTION"
hormone, pigmentation, melanin, melanocytes, melatonin	acrasin in cell aggregation
skin glands, dermatoglyphics, skin, hair, surface area, thermoregulation,	amoebae, cell differentiation, social amoebae, Dictyostelium cell
structure and function of human skin 1965 Feb. p. 56-66 [1003]	aggregation, acrasin 1959 Dec. p. 152–162 amoebae, social behavior, Dictyostelium, chemotaxis communication,
	spatial orientation 1963 Aug. p. 84–93 [164]
	=

acrasm, amoebae, adrenalm, social amoebae, Dictyostelium, cycle	
1960 June 70	soaring, aerodynamics, bird flight, airfoil, thermal cells
Dietyostenum, aerasin as social hormone 1000 m.	1957 Ann in 26.3
sting, war, archery, accuracy, range and lethality of sling	but the
Slip planes of the fourther tale and the slip planes of the page 1973 Oct p 34-	1901 Mar p 124-13
slip planes, crystal structure, dislocations, edge dislocation, soap bubble	2 Ond fight, fight of soaring hirds 1962 Apr n 120 140
1955 July p 80-87 [26 Slippery water, Toms effect: soluble polymer added to liquid	albatross, evolution, animal behavior, bird flight sexual behavior
don view infection and a state polymer added to figure 1970 Oct p. (natural history 1970 Nov n 84-93 11201
sion virus injection, multiple scierosis, invelin sheath, politomy class	bird flight, gliding birds, vultures, thermal cells, lift phenomena
demyennating factor, latent viruses 1970 fully p. 40	sociability, scientists, social psychology, 'Terman sample', scientists and
degenerative diseases, immune system, virus disease, kuru, scranie,	'Other people' compared on house of the
cancer virus, herpes virus 1974 Feb p 32-40 [128	
slums, urban renewal, cities, housing, relocation, eminent domain, urban planning, US experience with Federal subsidy of urban renewal	1955 Jan n 25-29 1437
1965 Sent n 1911-70	social amochae, amochae, shime mold, Dictyostehum acrasin, role of
sturries, pipelines, fluid dynamics, oil, gas, history and technology of	decrasin in cell aggregation 1949 June p 44-47 amoebae, cell differentiation, slime mold, Dictyostelium cell
pipelines 1967 Jan. p. 62-7	4 aggregation, acrasin 1959 Dec. p. 152-162
smanpos, eradicated? 1977 Mar n 6	acrasin, amoebae, adrenalin, slime mold, Dictyostehum, cyclic AMP
smallpox eradication, medical history, vaccination, W H O campaign	1969 June p 78-91
smallpox immunization, cowpox, medical history, variolation,	
vaccination, 'vaccination' before Jenner 1976 Jan p. 112-11	Ashanti, Tallensi, kinship, extended family, social structure, social psychology, primitive Tallensian and Ashantian kinship
smectie, liquid crystals, soap bubbles, cholesteric, nematic	1959 June p 146-158
1964 Aug p 76-89	social psychology, Zulu peoples, war, short-lived empire of Zulu chief
smell, see olfaction smelting, steel production, blast furnace, from ore, furnace smelting under	Shaka 1960 Apr p 157-168
pressure 1948 May p 54-57	
smog, air pollution, atmospheric inversion 1952 May p 15-19	Kung bushmen, sexual behavior, origin of society 1960 Sept p 76-87 [602]
air pollution, 'blue haze', atmospheric inversion, particulates, ozone,	Pygmies, Congo, Bambuti, symbyotic relationship of jungle Pygmies
peroxides, photochemistry 1955 May p 62-72	and pastoral-village peoples 1963 Jan p 28-37 [615]
bronchitis, air pollution, emphysema, public health, environmental health, US cities, smog and public health 1961 Oct p 49-57 [612]	social behavior, chicken, pecking order, sexuality and dominance
air pollution, automobile emissions, ozone, urban transport, air	1956 Feb p 42-46 [471] comparative psychology, animal behavior, praine dogs, territorial
pollution control in Los Angeles 1964 Jan p 24-31 [618]	behavior, innate behavior, learning behavior, field observation of
air pollution, cities, water supply, sewage disposal, water pollution,	prairie dog communities 1959 Oct p 128–140
taxation, Los Angeles, New York, metabolism of cities	Portuguese man-of-war, nematocysts, coelenterate colonies 1960 Mar p 158-168
1965 Sept p 178-190 cloud seeding, water cycle, air pollution, water drop, ice crystals, fog,	baboons, human evolution, comparative psychology, social
inversion layer 1968 Dec p 74-82 [876]	anthropology. Kung bushmen, sexual behavior, origin of society
Los Angeles smarting 1953 Jan p 32	1960 Sept p 76-8/[602]
smoke tunnel, ailerons, aircraft design, aerodynamics, airfoil, boundary	social evolution, human evolution, cities, urban revolution, 1500 B C origin of cities 1960 Sept p 153-168 [606]
layer, low-speed flight 1956 Apr p 46-51 smoked ham, hickory, fences, axe-handles, hickory nuts, economic	ethology, gulls, comparative psychology, animal behavior, evolution,
botany, forest, natural history, shagbark hickory 1948 Sept p 40-43	reconstructing guil family tree from behavior of species
smooth muscle, structure elucidated 1965 Sept p 86	1960 Dec p 118-130 [430]
smut, antibiotics, plant disease, rot, blight, wilt disease, mold, mildew 1955 June p 82-91	baboons, comparative psychology, sexual behavior, baboon troops in their natural environment 1961 June p 62-71 [614]
snail, food, Helix pomatia, natural history 1957 Aug p 113-118	namate behavior, chimpanzee, tool-using, comparative psychology,
escape response, marine invertebrates, starfish, limpets, scallop, prey-	observation of chimpanzees in the wild 1962 May p 128-138 [403]
predator relationship, chemical signals 1972 July p 92-100 [1254]	pheromones, insect physiology, sexual behavior, queen substance,
snake, animal behavior, locomotion, herpetology, lateral, rectilinear,	muskone, ants, Gypsy moths, mice 1963 May p 100-114 [137] amoebae, slime mold, Dictyostelium, chemotaxis communication,
concertina and sidewinding modes of progression 1970 June p 82-96 [1180]	spatial orientation 1963 Aug p 84–93 [104]
heat sensors, infrared receptors, sensory organs, infrared laser,	aggression, rats, animal behavior, territorial behavior, natural history, Rattus rattus. Rattus norvegicus 1967 Jan p 78-85
herpetology 1973 May p 94–100 [1272]	Rattus rattus, Rattus norvegicus 1967 Jan p 18-03 rhesus monkeys, urban monkeys, learning, urban and forest monkeys
snoring, a cure 1951 June p 35 snow, avalanche, loose-snow avalanche, slab avalanche	in India 1969 July p 108-115 [525]
1954 Jan p 26-31	social class, ghetto, racial discrimination, unemployment, urban nots
ice, water, frost, supercooling, condensation nuclei, ice worms, how	public opinion, American Negro, 'riffraff theory' versus 'blocked- opportunity' theory 1968 Aug p 15-21 [638]
water freezes 1959 Feb p 114-122	opportunity' theory 1968 Aug p 13-21 [036] social controls, Kuanyama Ambo, anthropology, murder, monarchy
avalanche control, mountains, hoar frost, types, causes and prevention of shdes 1966 Feb p 92-101	1950 Oct p 32-33
snow crystals, water, ice, hydrogen-ion migration, hydrogen bonds,	social deprivation, comparative psychology, rhesus monkeys, maternal deprivation, peer group, experiments in social deprivation
hydration, physical and chemical properties 1930 Apr p /0-89	1962 Nov p 136~146 [473]
crystal growth, condensation nuclei, natural and artificial condensation 1961 Jan p 120-131	black power. American Negro, racial discrimination, group identity,
crystallography ice, crystal structure, water molecules, migrating	economic nower ethnic groups, slavery 1967 Apr p 21-27 [033]
1900 Dec D 110-120 1901	educational performance, teacher expectations, experiment in self- fulfilling prophecy for disadvantaged children
hexagonal habit, cloud physics, bullet clusters, isuzum crystais,	1908 Apr p 19-23 13141
variations on a tilente 1952 Feb p 58~59	social discrimination, public opinion, American soldiers, attitude survey, sociology, studies of attitudes and morale of U S troops during
a 111 amendal atriothire dislocations, edge dislocation, one plants	World War II, including experiments in racial integration of multary
1964 Aug p 76-85	1949 May b 11-13
liquid crystals, cholesteric, smeetic, nematic 1964 Aug p 76-85 area-minimizing principle, measure theory, mathematical model, mathematical surfaces, surface geometry 1976 July p 82-93	discrimination, group behavior, child development, 'in vs out' group discrimination 1970 Nov p 96-102 [530]
illatifetifation automos, a constant	

social evolution, blood typing, Judaism, racial discrimination, religious persecution, genetic drift, population genetics, Jewish community of Rome 1957 Mar. p. 118–128 social behavior, human evolution, cities, urban revolution, 1500 B.C. origin of cities 1960 Sept. p. 153–168 [606]	social structure, Ashanti, Tallensi, social anthropology, kinship, extended family, social psychology, primitive Tallensian and Ashantian kinship 1959 June p. 146-158 social surveys, achievement, motivation, aspiration, psychological testing, self-anchoring scale 1963 Feb. p. 41-45
social geography, cities, racial discrimination, American Negro, segregation, metropolitan segregation 1957 Oct. p. 33-41 social indicators, child welfare, state of the child, New York City	social values, science, human value, introduction to an issue reviewing advance of science 1900-1950 1950 Sept. p. 20-23 Mormons, Zunis, Spanish-Americans, agricultural system, Navaho,
1976 July p. 65 social insect, insect behavior, army ant, ants, comparative psychology, reproduction, feedback, pheromones, trophallaxis, natural history,	comparative study of cultures in New Mexico 1956 July p. 25–31 socioeconomic background, scientists, psychological testing, social psychology, psychological study of 64 eminent scientists
philosophy of science, anthropomorphism 1948 June p. 16–23 insect behavior, animal communication, bee dances, directional orientation, 'language of the bees' 1948 Aug. p. 18–21 [21]	sociology, public opinion, American soldiers, attitude survey, social discrimination, studies of attitudes and morale of U.S. troops during
termite, cell analogy, behavioral adaptation, insect behavior 1953 May p. 74-78 honeybee, natural history 1955 Aug. p. 52-60	World War II, including experiments in racial integration of military units 1949 May p. 11-15 cultural evolution, anthropology, multilinear human culture changes
insect behavior, bee dances, evolution, evolutionary 'dialects' of 'language of the bees' 1962 Aug. p. 78-86 insect behavior, ants, army ant, retrospective summary of work of T.C.	public opinion, American Negro, U.S. whites, desegregation, attitude survey, racial segregation, longitudinal attitude study
Schneirla 1972 Nov. p. 70-79 [550] ants, parasitism, pheromones, insect behavior, ant slavery 1975 June p. 32-36 [1323]	Nobel prizes, education, university education, scientific careers, sociology of the Nobel prizes 1967 Nov. p. 25–33
ants, insect behavior, pheromones, weaver ants 1977 Dec. p. 146-154 [1373] 'social physics', social sciences, physical sciences, statistics, correlating	poverty, Mexico City, buying habits, culture of poverty 1969 Oct. p. 114-124 [651] Cannabis sativa, marijuana, drug abuse, consciousness, pharmacology
social statistics and physical law 1948 May p. 20-23 social pressure, conformity, perception 1955 Nov. p. 31-35 [450]	1969 Dec. p. 17-25 [524] communication, mass-communication media, message systems,
social psychology, competition, cooperation 1950 Apr. p. 54-56 communication, leadership, 'work patterns profiles', people in groups 1951 Feb. p. 26-28	television violence, cultural patterns, mass communications as social environment 1972 Sept. p. 152-160 [679] sociology of science, N.S.F., peer review, research funding, university
scientists, psychological testing, socioeconomic background, psychological study of 64 eminent scientists 1952 Nov. p. 21-25 scientists, sociability, "Terman sample", scientists and 'other people'	science, science policy 1977 Oct. p. 34-41 [698] sod hut, building construction, architecture, primitive architecture, climate, igloo, teepee, yurt, tent, adobe house, hogan, stilt house
compared on basis of 'Terman' sample of intellectually gifted persons under three-decade longitudinal study 1955 Jan. p. 25-29 [437]	1960 Dec. p. 134–144 sodium-cooled reactor, fission reactor, nuclear power, breeder reactor, boiling-water reactor, homogeneous reactor, fast neutron reactor 1954 Dec. p. 33–39
group behavior, interpersonal relationships, conference 1955 Mar. p. 31-35 aggression, group behavior, pecking order, experiments in group	sodium ion potential, nerve impulse, action potential, refractory period, nodes of Ranvier, nerve membrane 1952 Nov. p. 55-65 [20]
behavior 1956 Nov. p. 54-58 [154] interpersonal relationships, self-disclosure, idiosyncracy in self-disclosure 1958 May p. 77-82	electric fishes, electroplaques, neurophysiology, synapse, acetylcholine, animal behavior, nerve impulse, bioluminescence 1960 Oct. p. 115-124
adolescence, conformity, interpersonal relationships, U.S. teenage attitudes 1958 June p. 25-29 Ashanti, Tallensi, social anthropology, kinship, extended family, social	sodium pump, giant axon, squid, nerve impulse, nerve cells, 'voltage clamp' technique 1958 Dec. p. 83–90 kidney tubule, membrane potential, active transport, cell membrane,
structure, primitive Tallensian and Ashantian kinship 1959 June p. 146–158 Zulu peoples, war, social anthropology, short-lived empire of Zulu	biological pumps 1962 Aug. p. 100–108 SOFAR: sound fixing and ranging SOFAR, underwater communication 1952 May p. 38
chief Shaka 1960 Apr. p. 157–168 group behavior, conformity, human subjects, group pressure, experiments in susceptibility to group pressure 1961 Dec. p. 45–51	software, computer technology, U.S.S.R., Comecon, integrated circuits 1970 Oct. p. 102-108 soil, moon surface, robot lander, Surveyor spacecraft, surface sampler
fallout shelters, civil defense, arms race, counterforce strategy, social impact of fallout shelters 1962 May p. 46-51 [637] human behavior, cognitive dissonance, experiments in preperception	soil conditioners, humus, polyacrylates, polyvinylites, cellulose, tilth 1953 Aug. p. 36–38
1962 Oct. p. 93–102 [472] education, poverty, group behavior, rural poverty, community action, emotional illness, study of community regeneration	soil erosion, rain drop, elutriation, sheet erosion, micromechanics of soil erosion 1948 Nov. p. 40-45 soil structure, chernozems, podzols, latozols, tundra, alluvial soils,
intelligence, race, whites, IQ, heredity, American Negro, heredity, population genetics, science policy, twins, environment, racial	agronomy, ecology of soil, the soils of the world and their management 1950 July p. 30–39 irrigation, agricultural technology, poverty, economic development
discrimination 1970 Oct. p. 19–29 [1199] aspirations of Rhodesian youth 1957 Jan. p. 60 leadership and social aloofness 1957 Oct. p. 62	afforestation, Mediterranean Project, United Nations 1960 July p. 86-103 human population, food production, fertilizers, pollution, irrigation,
social sciences, 'social physics', physical sciences, statistics, correlating social statistics and physical law 1948 May p. 20–23 economics, mathematical model, decision theory, mathematics in	food 1970 Sept. p. 160–170 [1196] sand dune classification, dust storms, haboob 1976 Oct. p. 108-114
economics and other social sciences 1964 Sept. p. 168-182 National Science Foundation 1961 Jan. p. 78 U.S. Government 1968 Oct. p. 58	soil minerals, plant nutrition, plant roots, root pressure, transport mechanisms 1973 May p. 48–58 [1271] soil molds, fungi, carnivorous plants, nematodes, carnivorous fungi
social status, public opinion, voters' attitudes, voting behavior, correlation analysis, ethnic groups, income, family, 'votes in the making' 1950 Nov. p. 11-13	1958 July p. 67-72 [1094] soil pollution, DDT, herbicide, gamma radiation, X-ray, soil ecology
primate behavior, monkey, Japanese macaques, primate societies, protocultural behavior 1976 Oct. p. 96–106 [1345]	soil reclamation, dust storms, drought, dry-land farming, agricultural technology, mulch, shelter belts, U.S. High Plains 1948 1948 Aug. p. 7–11

soil structure, chernozems, podzols, latozols, tundra, alluvial soils,	
agronomy, ecology of soil, soil erosion, the soils of the world and	Sun, solar cclipse, ionosphere, chromosphere, ultraviolet radiation,
their management 1950 July p. 30–39	Earth-Sun chromosphere-ionosphere interaction
energy cycle, nutrogen fertilizer, nutrient cycle, food and agraphing	1962 Feb. n. 50.50
1000 than 1976 Sunt n 71 96	flare stars, radio astronomy, radio star, Jodrell Bank radio telescope,
surger reaction, amocoae, cell, cytology, high pressure, effect of high	definitive evidence of radiowaves from stars 1964 Aug. p. 13-19
pressure on centuar activity 1958 Oct p. 3613	lunar luminescence, moon, solar radiation, Kepler crater, meteontes, impact of solar protons? 1965 May p. 28-37
amocoac, phagocytosis, cell motility, cytoplasmic streaming front	impact of solar protons? 1965 May p 28-37 cosmic radiation, interplanetary fields, interplanetary particles,
contraction theory of amocboid motion 1962 Feb p 112-122 [182]	magnetosphere, solar wind, aurora, Van Allen belts, solar system
solar astronomy, airborne solar photography 1957 Sept p 107	1975 Sept p 160-173
solar atmosphere, solar corona, zodiacal light, Van Allen belts, solar	solar gravitation, atmospheric tides, lunar gravitation, 1954 May p. 36-39
prominences, ionospheric storms, Earth in the Sun's atmosphere	solar magnetism, magnetic field, Zeeman effect, sunsoots, manning
1959 Oct p 64-71 magnetic field, solar magnetism, Sun cycle, photosphere,	changes in solar magnetic field 1960 Feb p 52-62
chromosphere, 11-year solar cycle explained 1966 Nov. p 54-62	magnetic field, Sun cycle, photosphere, chromosphere, solar
Sun, sunspots, rotation, magnetic field, eddies, solar atmospheric	atmosphere, 11-year solar cycle explained 1966 Nov p 54-62
circulation 1968 Jap n 100-113	neutrino, solar corona, solar energy, Sun, sunspots 1975 Sept p 42-30 comes and goes 1955 May p 56
solar battery, solid state physics, semiconductor, photoelectric effect,	comes and goes 1955 May p 56 magnetic pole reserval 1959 Dec p 82
energy transformation 1955 Dec. p. 102-110	solar navigation, animal navigation, bee, crustacea 1954 Oct p 74-78
solar cells, energy transformation, energy demand, fuel-conversion	solar neutrino detector, cosmic radiation, solar radiation, neutrino,
efficiency, power, prime movers, steam turbines,	thermonuclear reaction, neutrino detection experiment and
magnetohydrodynamics, gas turbine, internal combustion engine,	predictions 1969 July p 28-37
fuel cell, power, nuclear power, comparative efficiencies of energy transformation pathways in industrial civilization	solar neutrinos, neutrino, cosmic radiation neutrinos, intermediate vector
1971 Sept p 148–160 [668]	boson, scintillation counter boson, detection of natural neutrinos
electric power generation, photovoltaic conversion, semiconductor	1966 Feb p 40–48
technology, silicon-crystal structure 1976 Oct p 34-43	missing 1972 June p 33 missing neutrinos explained 1975 Aug. p 47
solar collectors, solar energy, light absorption, pigments, energy	more neutrinos counted 1976 May p 52
conversion 1956 June p 97–106	solar observatory, placed on orbit 1962 Apr p 75
solar corona, heat, thermonuclear reaction, stellar interiors, hydrogen	solar particles, artificial satellite, cosmic radiation, telemetry, Van Allen
bomb, proton-proton interaction, helium reaction, ultrahigh	belts, geomagnetism, radiation belts, space exploration, mapping of
temperatures 1954 Sept p 144-154	radiation belts by Explorer satellites 1959 Mar p 39-47 [248]
solar prominences, solar flares, ionosphere, atmosphere, coupling of	cosmic radiation, geomagnetism, galactic magnetism, galactic
solar and terrestrial atmospheres 1958 Aug p 34-41 zodiacal light, Van Allen belts, solar prominences, solar atmosphere,	accelerator theory 1960 June p 64-71 solar physics, carbon 14 abundance, climate, ice ages, Maunder
ionospheric storms, Earth in the Sun's atmosphere	minimum, sunspots, dendrochronology 1977 May p 80-92 [925]
1959 Oct p 64-71	solar prominences, heat, plasma, magnetohydrodynamics, shock tube,
aurora borealis, solar wind, Earth magnetic field, Van Allen belts,	very high temperatures 1954 Sept p 132–142
comet tails, magnetic storms 1964 Apr p 66-76	solar corona, solar flares, ionosphere, atmosphere, coupling of solar
chromosphere, corona, eclipse phenomena, photosphere, Sun	and terrestrial atmospheres 1958 Aug p 34-41
1973 Oct p 68–79	solar corona, zodiacal light, Van Allen belts, solar atmosphere,
neutrino, solar energy, solar magnetism, Sun, sunspots 1975 Sept p 42–50	ionospheric storms, Earth in the Sun's atmosphere 1959 Oct p 64-71
solar wind, space exploration, waves in solar wind 1977 Mar p 36-43	solar radiation, climate, volcanoes, dust, world climate and volcanic
solar eclipse, orbital motion, Earth, moon 1954 Feb p 36-40	activity 1952 Apr p /4-80 [843]
Sun, ionosphere, solar flares, chromosphere, ultraviolet radiation,	climatic change, glaciation, solar evolution and terrestrial climate
Earth-Sun chromosphere-ionosphere interaction	1958 June p 85-92 [655]
1962 Feb p 50~59	comet, Halley's comet, physics of comet tails 1958 Oct p 44-30
solar energy, light-to-heat conversion, photovoltaic conversion,	Antarctica, climatology, atmospheric circulation, albedo, Antarctica in Earth's heat budget 1962 Sept p 84-94 [859]
photosynthesis, limitations and prospects of solar power 1950 Aug p 16-21	artificial satellite, geomagnetism, Lorentz force, magnetosphere, Van
energy resources, residential heating, windows, low-potential energy,	Allen belts radiation belts aurora physics of Van Allen belts
hot water, Sun can supply most of the 30 percent of fuel energy	1963 May p 84-30
consumed in domestic heating 1951 Feb p 60-65	atmospheric circulation, meteorology, weather, upper atmosphere, halloon and rocket observations 1964 Mar p 62-74
Earth, atmospheric circulation, Earth rotation, circulation of the	balloon and rocket observations 1964 Mar p 62-14 lunar luminescence, moon, Kepler crater, solar flares, meteorites,
atmosphere 1955 Sept p 114-124	impact of solar protons? 1965 May p 28-37
light absorption, pigments, energy conversion, solar collectors 1956 June p 97–106	aurera horealis geomagnetism, ionosphere, magnetosphere, solar wind,
ecology, energy cycle, biomass, food chain, element abundance,	physics of the aurora 1965 Dec p 54-02
autotrophs heterotrophs, the ecosphere 1958 Apr p 83-92	convection currents, plants, thermoregulation, thermal radiation,
energy consumption, energy resources, fission fuels, power, fossil fuel,	transpiration, energy transfer, heat transfer in plant leaves 1965 Dec p 76-84 [1029]
fusion fuels, geothermal energy, tidal energy	airglow, atmosphere, ionosphere, ozone, oxygen atoms, upper
1971 Sept p 60–70 [663]	atmosphere, laboratory simulation, atomic energy levels
energy conservation, nuclear power, fossil fuel, synthetic fuels, energy 1974 Jan p 20–29 [684]	1966 Mar p 102–110
policy of US neutrino, solar corona, solar magnetism, Sun, sunspots	architecture, sunlight, lighting, building construction, glass 1968 Sept p 190-202
1973 Sept. p. 42-30	plasma, 1000 sept. p. 130-202
captured by chlorella 1951 Dec p 38	plasma, ionosphere, Earth magnetic held, geomagnetism, bartain clouds, magnetosphere, electric field, artificial plasma clouds from
the long view	1968 Nov p 80-92
photovoltaic cell 1956 Jan p 48	reduction, neutrino, solar neutrino detector, thermonuclear
status of solar energy units status of solar energy units solar flares, Sun, ionospheric storms, aurora, sunspots, geomagnetic solar flares, Sun, ionospheric storms, aurora, sunspots, geomagnetic 1951 Dec p 17–21	reaction, neutrino detection experiment and predictions 1969 July p. 28-37
solar flares, Sun, ionospheric storms, datora, out of 1951 Dec p 17–21	biosphere, albedo, atmospheric circulation, climate,
storms solar corona, solar prominences, ionosphere, atmosphere, coupling of 1958 Aug p 34-41	ocean circulation, terrestrial radiation, carbon dio dde willdow,
solar corona, solar promateres, 1958 Aug p 34-41	Forth energy cycle 1970 Sept p 54-63 [1189]

photosynthesis, biosphere, agricultural ecosystem, climax	ecosystem,	Galileo, Jupiter, Jovian satellites, Europa, Callisto,	Ganymede, Io
energy cycle, ecosystem, food chain, respiration, biosph	iere energy	1	976 May p 108–116
cycle 1970 Sept p	64-74 [1190]	asteroid orbit between Mercury and Sun	1949 Sept p 29
biosphere, energy cycle, photosynthesis, respiration, power	er, radiation	Venus, Sputnik VIII Venus probe	1961 Apr p 74 1962 June p 73
energy, terrestrial radiation 1971 Sept p	88-100 [664]	Barnard's star may be a 'sun' outer planets, Pioneer 10 mission	1902 June p 73
solar radio output, radio astronomy, radio map of Galaxy, e	xtragaiactic	solar system chemistry, chondrites, element formation	
radio waves, status and expectations of the new astron	Sept p 34-41	exploration, stellar evolution	1974 Mar p 50-65
solar rotation, aurora, magnetic storms, sunspots, cone of a		solar system evolution, meteorites, meteoritic dust, oc	ean sediments,
solar wind, corpuscular streams, cycles in 'solar wind'		'cosmic spherules' in ocean sediments	960 Feb p 123-132
1955	Feb p 40-45	cosmic radiation, cosmogenic helium, meteorite rad	dioactivity,
sunspots, Sun structure, solar spectrum 1975 A	pr p 106-114	spallation of meteorites	1973 July p 64–73
solar spectrum, Sun, carbon cycle, thermonuclear reaction,	sunspots,	comet, galactic formation, nebular hypothesis, stell	1975 Sept p 32–41
House of the	Nov p 26~39 pr p 106–114	cratering, meteorite bombardment, planetary ages,	
	951 June p 31	inner planets as key to solar-system history 197	7 Jan p 84-99 [351]
no entron 15	954 June p 46	triggered by supernova?	1978 Jan p 66
solar spicules, Earth, aurora, airglow, corpuscular streams,	nightglow,	solar system formation, albedo, asteroids, meteorites,	
aurora and airglow 1955 Se	ept p 140–150	collisions, primordial dust cloud	1975 Jan p 24–33 1975 Mar p 49
solar still, distillation, water, desalination, ion exchange, al	Mar p 37–45	solar variations, Sun as variable star solar wind, aurora, magnetic storms, sunspots, cone o	
technologies 1957 solar system, Sun, cosmology, dust cloud hypothesis, gravi		rotation, corpuscular streams, cycles in 'solar wi	nd'
pressure, gravitational collapse, thermonuclear reaction	n, genesis of		1955 Feb p 40-45
solar system 1948	May p 35-45	climate, weather, ionosphere, meteorology, corona	
	9 Oct p 42–45		Apr p 138–148 [849]
astronomy, philosophy of science, galactic clusters, univ	erse, planetary	Antarctica, Earth magnetic field, 'whistlers', upper	
motion, cosmology, introduction to single topic issue	Sept p 72-81	atmosphere magnetic field-solar wind interactio	Sept p 74-83 [858]
isotope dating, radioactive decay, meteorites, Earth crus		aurora borealis, solar corona, Earth magnetic field	
system 1957 Apr	p 80-94 [102]	comet tails, magnetic storms	1964 Apr p 66-76
Neptune, orbital motion, Pluto, Pluto as escaped Neptu	nian satellite	artificial satellite, geomagnetism, magnetosphere, a	
1959 Apr	p 86–100 [295]	magnetometer, orbital motion	1965 Mar p 58-65
radio telescope, radar astronomy, radio astronomy, stee	able 600 ft O Jan p 45–51	aurora borealis, geomagnetism, solar radiation, ion magnetosphere, physics of the aurora	1965 Dec p 54-62
telescope 196 interferometry, moon, planets, ionosphere, radar astron		interplanetary space, Mars, Mariner 4, magnetospl	
technology and promise of radar astronomy 1960	Aug p 50–59	micrometeorites, trapped radiation, atmosphere	, cosmic radiation,
meteorites, relative isotope abundance, age of solar syste	em	space exploration	1966 May p 62-72
	171–182 [253]	Apollo samples, carbon chemistry, moon, cosmolo	gy 1972 Oct p 80-90
astronomical unit, space exploration, Venus probes, Do radar, Earth-Sun distance more precisely measured	ppier enect,	cosmic radiation, interplanetary fields, interplanet	
	1 Apr p 64-72	magnetosphere, solar flares, aurora, Van Allen b	
Jupiter, Venus, planets, radio astronomy, measuring pla	netary surface		975 Sept p 160-173
	1 May p 58-65	solar corona, space exploration, waves in solar win	
chondrites, chondrule, primordial dust cloud, shock wa	ves, genesis or 64–82	to be made visible in cloud of barium ions	1977 Mar p 36-43 1962 Apr p 77
the solar system 196 calendar, planetary motion, time, heliocentric theory, y		radar observation of sun	1965 Feb p 54
Copernicus, astronomy, Copernicus, length of calend		solid stars, gravitational collapse, neutron stars, pulsa	ar, stellar evolution,
190	66 Oct p 88-98	white dwarfs, ultradense matter	1971 Feb p 24-31
Martian topography, Mariner 9 results, Martian atmos		solid-state electronics, computer, automatic control,	
space exploration, polar cap, 'braided' channels, dun photomosaic, volcanoes on Mars 19	73 Jan p 48–69	conversion, digital computer, analogue compute machine	952 Sept p 116–130
Copernicus, planetary motion models, Tycho Brahe, sc	ence history,	crystal structure, X-ray crystallography, metals, ser	miconductor.
Tycho's notes in de Revolutionibus 1973	3 Dec p 86-101	nonmetals, materials technology, amorphous sol	ıd, electrical
comet origins, cometary structure, exotic molecules, pri		conductivity	1967 Sept p 80-89
cloud, Comet Kohoutek 19' carbonaceous chondrates, chondrates, meteorates, primo	74 Feb p 48~57	carrier-wave generator, communication technology diode laser, laser, heterostructure lasers, light-en	, crystal structure,
	75 Feb p 30-38	semiconductor	1971 July p 32–40
planets, space exploration, Sun, introduction to single		telephone, electronic telephone, integrated circuits	, telephone based on
the solar system	5 Sept p 22-31	integrated circuits 1978	Mar p 58-64 [3002]
Mercury, planets craters, Manner 10 mission 197 planets, Earth, Venus, cratering, Venutian atmosphere	15 Sept p 58-68	tunnel diode	1959 Sept p 106
	75 Sept p 70-78	solid-state lasers, Raman laser effect, gas laser, diode technology in rapid development 196	junction laser, laser 3 July p 34-45 [294]
Earth evolution, plate tectonics, erosion 19	75 Sept p 82-90	light emitting diode, semiconductor, laser, electron	i beam, junction
lunar evolution, lunar rocks, moon, Apollo missions		diode	967 May n 108-122
dust storms Mars, terrestrial planets, cratering, tecton	5 Sept p 92-102	solid state physics, transistor, vacuum tube, electronic	cs, germanium,
mountain formation, erosion, hydrology 1975	Sept p 106-117	diode, triode, dawn of solid-state electronics crystal structure, X-ray diffraction, ionic bonds, co	1948 Sept p 52–55
Great Red Spot, liquid planets, Jovian moons, atmosp	heric circulation,	metallic bonds, molecular bonds, energy levels, t	the nature of solide
Jupiter 1975	Sept p 118-126	1953	Dec n 39_40 (240)
asteroids, meteorids, moons, planetisimals 1975	Sept p 130-140 Sept p 142-159	solar battery, semiconductor, photoelectric effect,	energy
cosmic radiation, interplanetary fields, interplanetary	ochr h 147-173	transformation	955 Dec p 102-110
magnetosphere, solar flares, solar wind, aurora, Var	particles.	crystal structure, neutron, radiation, nuclear fiere	afforts f
	Allen belts	on solids	n, effects of radiation
1075	Allen belts	on solids 1956 invention, creativity, industrial research, applied so	n, effects of radiation Aug p 76-84 [245] mence, Bell
Jupiter, Jovian meteorology, planetary atmosphere, pl	Allen belts	on solids 1956 invention, creativity, industrial research, applied so	Aug p 76-84 [245]

structure by radiation

1959 Sept p 200-213

particle detector, particle physics, semiconductor, particle accelerator,	
remediation particle-deficient 1967 (), i a 20 op 120	Control Companies Companies Companies
carbon, polyethylene, spherulites, plastics, crystallography	4) assisted imaging, imaging internal organs by ultrasound
1964 Nov 50 c	1978 May n 08-117 (1380)
Ciccurc field, Gunn effect, microwate emission, negative residence	songoirus, bird song, communication, syrinx, mechanism of sound
electronics, gallium arsenide, solid state microwave generation	production 1969 Nov p 126~139 [1162]
1966 Aug n 22-3	sonic boom, supersonic flight, shock waves, noise pollution, supersonic
argon, crystal structure, cryogenics, noble gases, solid noble gases	1902 Jan 19 3004)
1966 Oct n 64-7	deronautics, supersonic flight, commercial aircraft, aircraft design,
Crystal Affecture, fichum, zero-point motion, auantum solid solid	treating tree into the party and economics of supersome transport
netium, physical and theoretical properties 1967 Aug of 8 to	5 'sound barrier', aviation, rocket engine 1964 June p 25-35 1953 Oct p 36-41
materials technology, crystal defects, epitaxial growth, surface	sound diffraction, architectual acoustics, sound waves, auditonums, wave
chemistry, precipitation in solids, 'doping', chemical properties of	acoustics, sound interference, acoustic reverberation, effective
materials 1967 Sept. p. 210_220	management of sound in public buildings and dwellings
neat, diffusion, thermal waves, second sound, ervogenics, wave	1963 Nov p 78-92
propagation, phonon, behum, thermal wates in solid behum	sound energy, heat conduction engagines phonon thermoelectricity
1970 May p 92-101	quantum mechanics of heat conduction 1962 Dec p 92-104 [288]
antimatter, crystal structure, gamma radiation, gravitational	sound fixing and ranging, see SOFAR
interaction, positron probes, scintigraph 1975 July p 34-42	sound interference, architectual acoustics, sound waves, auditonums
superfluidity, helium 3, liquid phase, gas phase, quantum effects,	wave acoustics, sound diffraction, acoustic reverberation, effective
quantum fluids, phase transitions 1976 Dec p 56-71	management of sound in public buildings and dwellings
solids, explosions, shock waves, materials technology, phase transitions	1963 Nov p 78-92
1969 May p. 82-91 solitary insects, Australia, behavioral adaptation, ecology, insect	sound reproduction, junction diode amplifiers, amplifiers, transistor,
behavior, sand wasps, Bembix 1975 Dec p 108-115	electronic circuitry, noise 1959 June p 118-129
solitary wasps, insect evolution, predatory wasps, species specificity,	
predator-prey relationship, parasitism, behavioral clues to evolution	engineering of sound systems 1961 Aug p 72-84 sound spectrogram, frog calls 1950 May p 46-47
1963 Apr p 144-154	sound spectrogram, frog calls 1950 May p 46-47 computer technology, Voder, speech recognition 1955 Feb p 92-98
Solutrean culture, Upper Paleolutic hunting peoples, stone tools, tool	voice analysis, acoustic analysis, speech quality of mental patients
inventories, France, 21,000 years ago 1964 Aug p 56-94	1965 Mar p 82–91 [492]
solvated electrons, ammonia, radiolysis, ionization, radiation chemistry,	communication, crying, infant behavior, neonatal disorder, mother
sodium, alkalı metals 1967 Feb p 76-83	child interaction 1974 Mar p 84–90 [558]
alkali-metal anions, alkali-metal cations, cryptands, electron orbitals,	disparaged as identification method 1969 Dec p 54
quantum mechanics 1977 July p 92~105 [368]	sound spectrography, cardiology, heart, heart sounds, electronic analysis
solvation shell, laser, liquid lasers, rare-earth ions, chelate cage,	of heart sounds 1956 May p 120-130
comparison of liquid, gas and solid-state lasers 1967 June p 80-90	sound sibrations, auditory beats, brain, hearing, neurology, auditory
somatic cell nucleus, cell differentiation, nucleus transplantation, clone,	perception 1973 Oct p 94-102 [1282]
genetic engineering, gene complement, frog embryo, gene regulation	sound-wave pressure, light, radiation pressure, photophoresis, analogy
1968 Dec p 24-35 [1128] somatic cells, cancer, tissue culture, drug research, clone, technique and	and distinction, light- and sound-wave pressure 1957 June p 99-108
uses of tissue culture 1956 Oct p 50-55	sound waves, pitrasonics, biomegacycle waves, acoustic waves at optical
clone, HeLa cancer cells, cell culture, tissue culture, single human cells	wavelength 1963 June p 60-08
1957 Aug p 91-100 [33]	architectual acoustics, auditoriums, wave acoustics, sound interference,
aging, fibroblasts, mitosis, cell culture, cell, DNA replication,	sound diffraction, acoustic reverberation, effective management of
experiments in aging 1968 Mar p 32-37 [1103]	sound in public buildings and dwellings 1963 Nov p 10-32
cell hybridization, gene mapping, hybrid cells, mouse-human hybrid	feedback, vortex, edge tone, aerodynamic whistles, hole tone, whistles, flutes, organs and rocket engines 1970 Jan p 40-46
cells 1974 July p 36-44 [1300]	flutes, organs and rocket engines 1970 Jan p 40-40
cancer, SV40 virus, gene transformation, chromosome mapping, tissue	communication technology, crystal surface waves, electronic equipment, Rayleigh waves, signal processing, ultrasonic waves
culture, hybrid cells, genetics of human cancer 1978 Feb p 117-125 [1381]	1972 Oct p 50-68
sonar, ocean floor, seismology, sedimentary cores, Albatross voyage,	acquette holography laser interference holography, acoustic imaging,
isotope dating, Swedish deep sea expedition 1950 Aug p 42-48	nondestructive testing, medical diagnosis 1909 Oct p 30
bat sonar, animal navigation, ultrasonic signal, bat navigation	South America, New World archeology, stone tools, early man in New
demonstrated in laboratory 1950 Aug p 52~55	World, 12,000 B C 1967 Nov p 44-50
'false bottom', marine biology, plankton, shrimp, heteropod, deep-sea	Southern pine, resource management, gene manipulation, grafting
scattering layer, deep-sea 'layer of life' 1951 Aug p 24-28	techniques, forestry, tree farming, seed orchard concept 1971 Nov p 94-103
ocean floor, topography, Aleutian Trench, seamounts, fathogram,	Southern sky, Clouds of Magellan, galactic center, nebulae, globular
echo-sounding, the Pacific floor 1952 Apr p 19–33	abustos stars. Eta Canna, astronomical riches of the southern sky
guacharos, bird navigation, 'oil birds' 1954 Mar p 78-83 ultrasonics, interferometry, emulsification nondestructive testing	1952 July p 40-31
1954 May p 54-63	Harvard quits Boyden 1953 Apr p 44
blue whale, krill, food chain, whaling, natural history of the largest	Boyden station saved 1955 Aug p 48
1956 Dec p 46-50	Soviet Union, see USSR soybean products, legumes, nitrogen fixation, agronomy plant protein
hathymetry, grayimetry, ocean floor, continental shelf, sedimentary	soybean products, regumes, introgen resulted, agronomy plant proton-
agent Lamont Geophysical Observatory 1906 Dec p 85-94	space age tribute to Robert H. Goddard 1960 Sept. p. 106
auditory discrimination, bats, bat sonar, echo-sounding, sensory	space curvature, cosmology, universe evolution, 'big bang' theory
perception, supersome sonar of bats 1958 July p 40-49 [1121] echo-sounding, ocean floor, plankton, deep-sea scattering layer, photocecho-sounding, ocean floor, plankton, deep-sea scattering layer, photocecho-sounding, ocean floor, plankton, deep-sea scattering and deep-	universe according to Gamow 1956 Sept p 136-134
states hottom!	cofinity relativity theory, universe as finite or infinite
Zone, Taise bottom moths, auditory perception,	space exploration, Earth satellite, orbital motion 1976 Aug p 90-100 1955 Dec p 29-33
	space exploration, Earth satellite, Orbital motion, satellite, Sputnik, tracking station, artificial satellite, orbital motion, satellite, Sputnik, tracking station,
	East conficial Farth satellite 1937 Dec 0 37-43
arms control, antisubmarine warfare, missile submarines, SALT,	and entering solar narticles, cosmic radiation, telemetry, van
mutual assured destruction, SLBM, acoustic detection 1972 July p 14-25 [345]	Allen belts, geomagnetism, radiation belts, mapping of radiation
Director Francisco	belts by Explorer satellites 1959 Mar p 39-47 [248]

artificial satellite, orbital motion, Mercury, re-ent	ry vehicle, ablation.	gravity, stellar evolution, gravitational collapse, thermal pressure,
re-entry corndor, re-entry from space	1961 Jan p 49–57	singularity, gravitational radius, black hole 1967 Nov p 88–98
ion propulsion, plasma jet, jet velocity, cesium-io		spacecraft, interplanetary navigation, orbital motion, rocket,
magnetohydrodynamics, electrical propulsion	1961 Mar p 57-65	communication technology, navigation, technology of space
solar system, astronomical unit. Venus probes, D		navigation 1960 Mar p 64–73
Earth-Sun distance more precisely measured	1961 Apr p 64-72	artificial satellite, Mars, space exploration, Mariner 4, telemetry,
Mariner 2, telemetry, Venus, navigation, orbital r		spacecraft navigation 1966 Mar p 42-52
resolution studies of Venus	1963 July p 70–84	moon surface, lunar geology, cratering, lunar exploration, structure,
lunar exploration, moon, lunar surface, spacecraf		history, origin of moon from nine spacecraft visitations
missions	1966 Jan p 52–67	1967 Mar. p 60–74
artificial satellite, Mars, Mariner 4, telemetry, spa		spacecraft design, lunar exploration, moon, space exploration, lunar
spacecraft	1966 Mar p 42-52	surface, Ranger missions 1966 Jan p 52-67
Mars, computer enhancement, telemetry, televisi		spacecraft navigation, artificial satellite, Mars, space exploration, Mariner
graphics, Mariner IV photographs, Martian to		4, telemetry, spacecraft 1966 Mar p 42–52
grapines, mariner iv photograpus, marian to	1966 Apr p 54-68	interplanetary navigation, Mars, navigational accuracy, Viking
interplanetary space, Mars, Mariner 4, magnetos		missions 1976 June p 58–74
micrometeorites, trapped radiation, atmosphe	re. solar wind, cosmic	Spanish-Americans, social values, Mormons, Zunis, agricultural system,
radiation	1966 May p 62-72	Navaho, comparative study of cultures in New Mexico
moon, lunar surface, telemetry, high-resolution p		1956 July p 25–31
Orbiter space missions	1968 May p 58–78	spare tire, fuel consumption, jettison the 'Fifth wheel'? 1978 Apr p 88
Mars, Venus, atmosphere, atmospheric difference		spark chamber, particle accelerator, cloud chamber, bubble chamber,
Apollo project, lunar evolution, lunar magnetism	magnetometers on	particle tracks 1962 Aug p. 36–43
moon	1971 Aug p 62–73	high-energy physics, storage rings, synchrotron, particle accelerator,
Apollo project, lunar evolution, lunar rocks	1971 Oct p 48-58	colliding beam accelerator 1966 Nov p 107–116 [323]
Martian topography, Mariner 9 results, Martian		spark machining, innovation from Hungary 1950 July p 26
solar system, polar cap, 'braided' channels, du	ne fields, photomosaic.	spatial frequency, contrast perception, visual perception, visual thresholds
volcanoes on Mars	1973 Jan p 48–69	1974 Nov p 106-114 [1308]
astrochemistry, interstellar matter, molecular sp		spatial memory, memory, brain organization, hippocampal system, rats
= notificially, interstellar matter, moreovar op	1973 Mar p 50-69	1977 June p 82–98
chondrites, element formation, planets, solar sys		spatial orientation, bird navigation, animal navigation, bird migration,
evolution	1974 Mar, p 50-65	celestial navigation by birds 1958 Aug p 42-47 [133]
planets, solar system, Sun, introduction to single	topic issue on the	kinesthetic memory, visual perception, neuropsychology, perception of
solar system	1975 Sept p 22-31	the upright 1959 Feb p 50-56 [410]
solar corona, solar wind, waves in solar wind	1977 Mar p 36-43	kinesthetic memory, sensory perception, sensory feedback, plasticity in
extraterrestrial life, Mars, Viking lander experin	nents	sensory-motor systems in man and cats 1965 Nov p 84-94 [494]
	977 Nov p 52–61 [389]	spatial perception, psychology, learning, innate behavior, perceptual
mice aboard Aerobee	1952 May p 38	learning, innate vs acquired space perception 1956 July p 71-80
the notion decried	1952 Dec p 30	special relativity, quantum mechanics, atomic structure, high-energy
Harvard-Smithsonian	1955 July p 52	physics, science, physics 1900-1950 1950 Sept p 28–31
special relativity, twin paradox	1957 July p 68	Pythagorean theorem, time, clock paradox 1963 Feb p 134-144
Sputnik, first man made satellite	1957 Nov p 66	ether drift, luminiferous ether, speed of light, interferometry,
threat of space probes to 'origin of life' study	1958 Aug p 48	Michelson-Morley ether-drift experiment 1964 Nov p 107–114
pollution of space	1958 Dec p 53	Cerenkov radiation, high-energy physics, tachyons, speed of light,
Soviet rocket on orbit around Sun	1959 Feb p 58	hypothetical particles faster than light 1970 Feb p 68–77
24-nation U N committee	1959 Feb p 64	space exploration, twin paradox 1957 July p 68
resume of U S program diet in space	1959 Apr p 62 1959 June p 82	test for constancy of speed of light reduces uncertainty to 001 Earth's orbital velocity 1960 Mar n 84
USSR-USA satellites aloft	1959 Nov p 86	orbital velocity 1960 Mar p 84 positron annihilation confirms constancy of velouty of light
Pioneer V, Tiros, Transit 1-B data	1960 May p 88	
U S -U S S R. competition	1960 July p 79	young Einstein's paradox 1963 May p 77 1975 Aug p 48
Pioneer V fades out	1960 Sept p 108	speciation, population genetics, evolution, E coli, Drosophila, mutation,
US and USSR programs	1960 Oct p 82	sexual recombination, natural selection, genetic basis of evolution
a 'C E.R N' for space	1960 Nov p 90	1950 Jan p 32–41 [6]
USSR orbits dog	1960 Nov p 98	species specificity, antigen-antibody reaction, determination of 'blood
international cooperation	1962 Apr p 74	relationships' 1951 July p. 59–63
US-USSR discuss collaboration	1962 May p 74	Darwin's finches, Galapagos Islands, evolution
review of first five years	1962 Nov p 68	1953 Apr. n. 66–72 [22]
Year of the Quiet Sun	1963 Jan p 60	Lysenkoism, Lamarck, acquired characteristics, genotype, evolution
after Apollo, what?	1967 Apr p 50	phenotype, mutation, ostrich calluses, religion, orthodoxy
U S 1970's program recommendations	1970 May p 54	Darwinism, experiments in acquired characteristics
Jupiter	1971 Oct p 44	1953 Dec p 92–99
space-filling, topology, shape, polygons, polyhed	1954 Jan p 58-64	evolution, guillemot, skua, melanism, ornithology, avian evolution
space flight, Yuri Gagarin on orbit	1934 Jan p 36-64 1961 May p 74	hirds geographical distribution and 1957 May p 124–134
space medicine, acceleration, g-forces, weightless	ness semicircular canals	birds, geographical distribution, ornithology, behavioral adaptation, bird migration, adaptation, provinciality of birds
black-out	1951 Jan n 16-19	
acceleration, human physiology, manned space	e flight, weightlessness.	1957 July p 118–128 camouflage, evolution, melanism, moths, air pollution, population
human centrifuge, g stress	1962 Feb p 60-70	genetics, mutation, genetic variation, evolution observed
space 'mirror', US project West Ford	1961 Oct p 80	1950 Mar at 40, 52 to 42
'Space Rapture', Copernican revolution, English	poetry	animal behavior, gulls, evolution, sexual behavior, innate behavior,
10	77 Juna n. 120 120 (367)	ethology species discrimination, Larus, eye rings
space technology, nuclear propulsion, ion propul rocket propulsion by nuclear reactions		1967 Oct p. 01 102 1109 41
Space-time continuum or institutor in a	1959 May p 46-51	continental unit, replife evolution, radiation, genetic continents
space-time continuum, gravitation wave-particle quantum mechanics, uncertainty principle,	duality, relativity theory.	Condwanarand, Laurasia, mammalian evolution, supercontinued
physics ancertainty principle,		breakup and animal diversification 1969 Mar p 54-64 [877]
• •	1963 Nay p 45-53	P 54-64 [677]

species dispersion, aerial plankton, animal nugration, insect physiology,	
astroattarin pest, entomotogy, wind-borne dispersal of species	Subdivarf stars bluer because necessary to an agrain, stellar evolution,
1963 Dec p 132-1	Licensia ultra-bank vicinia ed diferen
species extinction, fossil record, natural selection, glaciation,	cryogenic pump, mass, vacuum down to 10 mm of mercury
'catastrophism', crises in the history of life 1963 Fcb p 76-92 [86 species isolation, Death Valley, desert pupfish, fish, endangered species	
1971 Nov n 101_110 (123)	correlation of rotational velocity with mass 1963 Feb p 46-53
species specificity, extinction, adaptation, natural selection, evolutionary radiation, ecological niche, 'Is m in here to stay?'	stars 1963 Apr n 60-67
1950 Nov. n. 52. 5	atomic nucleus, fast neutrons, nuclear probe, neutron spectroscopy,
terunzation of flowers, flower, pollinators 1951 June p. 52-5	structure of atomic nucleus 1964 Mar p 79-88 quasars, recession velocity, cosmological distance, red shift, whether
antigen-antibody reaction, speciation, determination of 'blood	quasars are intra- or extra-galactic 1966 Dec p 40-52 [305]
relationships 1951 July p 59-6 agricultural pest, corn borer, insect behavior, corn, adaptation of	materials technology, color, photoelectric effect, laser, transparency,
parasite to host 1958 May p. 87-9.	optical properties of materials 1967 Sept p 238-248 elementary particles, energy levels, atom, nucleus, high energy physics,
insect evolution, predatory wasps, solitary wasps, predator-prev	1968 May p 15-19
relationship, parasitism, behavioral clues to evolution 1963 Apr p 144-15-	Greed and an artist, light, Fourier analysis, diffraction grating
bee dances, insect behavior, directional orientation, evolution,	aging, radiation damage, free radicals, electron-spin resonance
communication by sound, by dancing 1967 Apr p 96-104 [107]	chemical bond, effects of free radicals on living systems
insecticide, balsam-fir factor, insect hormones, insecticide resistance, juvenile hormone, DDT, third-generation pesticides	1970 Aug. p 70–83 [335]
1967 July p 13-17 [1078]	Doppler effect, red shift, quasars, shell hypothesis, radio source, absorption lines clue to quasar structure 1970 Dec p 22-29
evolution, proteins, computer analysis, cytochrome, anuno-acid	airglow, atmospheric ionization, atmospheric light, photochemistry
substitution, phylogeny from amino-acid substitution 1969 July p 86-95 [1148]	1972 Jan p 78-85 Doppler effect, energy levels, gas laser, laser spectroscopy
fruit fly, sexual behavior, releaser stimulus, couriship song, insect	1973 Dec p 69-85
behavior 1970 July p 84-92 spectrograph, speech synthesis, talking computers, vocal tract, Voder	
1972 Feb p 48-58	nucleochronology, radioactive nuclei, stellar evolution, supernovae 1974 Jan p 69-77
spectroheliograph, artificial satellite, ultraviolet radiation, ultraviolet	stellar evolution, supernovae, supernovae observed in other galaxies 1976 Dec p 89-101
astronomy, Sun 1969 June p 92-102 spectrometry, balloon astronomy, Venus, infrared astronomy	electromagnetic spectrum, electron manipulation, electron storage
1965 Jan p 28-37	rings, synchrotron radiation, X-ray lithography, X-ray probe, uses of
extraterrestrial life, infrared astronomy, Venus, atmospheric windows, Mars, Jupiter, moon, history and recent results of infrared	synchrotron radiation 1977 June p 32-41 [365] echelle for diffraction 1953 Apr p 46
astronomy 1965 Aug p 20-29	'match-light' potassium line 1967 Nov p 60
spectrophotometry, color vision, retina, cone cells, pigments, ganglion	speech, language, dialects, American languages, linguistics, changes in
cells, three-color receptor system 1964 Dec p 48-56 [197] spectroscopy, radar, microwaves, molecular bonds, coherent radiation,	American languages, palatalization, changes in American speech
resonance absorption, energy levels, quantum jumps, quantum	1955 Aug p 78-83
electrodynamics, time-keeping, foundation of maser, laser technology 1948 Sept p 16-23	communication, human evolution, language, origin of speech 1960 Sept p 88-96 [603]
meteorites, radio echo, ion cloud 1951 June p 22–28	behavior, facial expression, vocal display, nonverbal communication,
comet, orbital motion, comet tails, composition and origin of comets	facial expression in communication 1965 Oct p 88-94 [627] brain damage, writing, brain hemispheres, cerebral cortex, functional
quantum mechanics, Planck, science history, black body, resonators,	organization of the brain 1970 Mar p 60-78 [320]
Einstein, photoelectric effect, Compton effect, quantum jumps	speech disorders, aphasia, brain damage, Broca's area, language 1972 Apr p 76-83 [1246]
1952 Mar p 47-54 [205] diffraction grating, ruling engine, Strong engine, Rowland engine, the	speech errors, grammar, language organization, linguistics, spoonerisms,
ultimate machine 1952 June p 45–54	syntactic rules 1973 Dec p 110-117 [550]
painting, art restoration, X-ray, microchemistry, science in the art	speech grammaphones, music, sound reproduction, tape recorders, auditory perception, engineering of sound systems
museum 1952 July p 22–27 mass spectroscopy, separation techniques, ion beam	1961 Aug p 72-84
1953 Mar p 68–74	speech perception, attention mechanism, hearing, cochlea, phonetics neuropsychology, hearing two messages at a time
flame chemistry, chemical kinetics, flash tube, ram jet, heat, velocity, luminosity 1953 May p 29-35	1962 Apr p 143-151 (407)
cosmology, red shift, universe expansion, universe, galaxies, recession	auditory illusions, hearing, perception, phonetics, illusions, psychology, illusions as clues to organization of perceptual apparatus
velocity, galactic clusters, observational cosmology 1956 Sept p 170-182 [240]	1970 Dec p 30-33 [531]
blustron, microwaves, molecular rotation, laboratory applications of	speech recognition, computer technology, Voder, sound spectrogram 1955 Feb p 92-98
microwaves 1957 May p 46-53 radio astronomy, hydrogen, absorption line, interstellar matter, 21-	speech synthesis, talking computers, vocal tract, spectrograph, Voder 1972 Feb p 48-58
1937 July p 40-33	spend of light, universal constant, measurement 1955 Aug p 62-67
magnetic resonance, nuclear magnetic resonance, magnetometer, molecular structure, large molecule spectroscopy	ether drift luminiferous ether, special relativity, interferometry,
1930 AUE D 30-00 12-33	Michelson-Morley ether drift experiment 1964 Nov p 107-114 Cerenkov radiation, high energy physics, tachyons, special relativity.
photolysis, photochemistry, chemical reaction, reaction kinetics, free	hypothetical particles faster than light 1970 Feb p 68-77
radicals, color centers, mgn speed chemistry	subatomic distances 1967 Sept p 102 speed of sound, shock waves, shadow photography, Mach cones,
technique and uses of optical pumping	1947 NOV D 14-17
technique and uses of optical pumping galactic yardstick, stellar distances, calcium absorption lines supply new 'yardstick' 1961 Jan p 107-119	spermatozoon, fertilization, sea urchin, acrosome reaction, sexual reproduction, moment of fertilization 1959 July p 124-134
Hen langua.	sobrame

cell anatomy, ovum, virus, science history, cytology, muscle cell, plant	brain hemispheres, cerebral dominance, perception, corpus callosum,
cell, connective tissue cell, introduction to single-topic issue on the	intelligence, language, localization of brain function
living cell 1961 Sept p 50-61 [90]	1967 Aug p 24-29 [508]
spermatozoon bank, cryogenic storage, tissue preservation, frostbite,	split-style art, cultural differences, visual perception, cultural context of
freezing of living cells 1956 June p 105–114	perception, Hudson test 1972 Nov p 82–88 [551]
spermatozoon count, male fertility, birth control, ovulation timing	splitting water, with cerum and sunlight 1953 Mar p 50
1950 May p 16–19	sponge iron, direct-reduction processes, iron ore, iron melting, steel
spermatozoon motility, electrophoresis, sex determination, gene manipulation, sorting out Y-bearing sperm by electrophoresis	sponges, spiders, leeches, spermatozoon transfer, sexual reproduction,
manipulation, sorting out 1-bearing sperm by electrophoresis 1958 Nov p 87–94	bedbugs, unorthodox methods of sperm transfer
spermatozoon nucleus, leukocyte, nucleus, DNA, Miescher, chromatin,	1956 Nov p 121–132
hereditary material, discovery of DNA 1968 June p 78–88 [1109]	spoonerisms, grammar, language organization, linguistics, speech errors,
spermatozoon transfer, spiders, leeches, sponges, sexual reproduction,	syntactic rules 1973 Dec p 110–117 [556]
bedbugs, unorthodox methods of sperm transfer	in action as well as word 1977 Jan p 49
1956 Nov p 121–132	sports, athletics, running records, forecasting by extrapolation 1952 Aug p 52-54
sphere, mathematics, topology, differential topology, torus, everted sphere proof 1966 May p 112–120	Greek civilization, Olympic games, Iliad account 1968 Aug p 78–85
spherulites, carbon, polyethylene, plastics, solid state physics,	footracing, human physiology, athletics, psychology, metabolism,
crystallography 1964 Nov p 80–94	running records, Aesop principle 1976 June p 109–119
sphinx moths, 'cold-blooded' animals, ectothermy, metabolism,	physics of skiing 1956 Jan p 52
heterothermy, insect flight, temperature regulation, Mandura sexta	running dynamics, athletics, foot pressure measured 1967 Mar p 57
warm-up mechanisms 1972 June p 70–77 [1252]	sports medicine, baseball leads fatalities 1951 Oct p 40 acclimatization, Olympics at 7,450 feet altitude 1968 Jan p 51
spider webs, drug action, animal behavior, abnormal behavior 1954 Dec p 80-86	springtail, surface tension, water-strider, backswimmer, whirligig beetle,
arachnid, spiders, evolution, orb web 1960 Apr p 114-124	ecology, aquatic insect, insects of the water surface
spiders, leeches, spermatozoon transfer, sponges, sexual reproduction,	1978 Apr p 134–142 [1387]
bedbugs, unorthodox methods of sperm transfer	spruce, forestry, climax ecosystem, balsam, birch, climax forest of
1956 Nov p 121–132	Northeast US 1948 Nov p 20–23
arachnid, spider webs, evolution, orb web 1960 Apr p 114-124	Sputnik, artificial satellite, orbital motion, satellite, space exploration,
anımal behavior, predator-prey relationship, Arachnida, social spiders 1976 Mar p 100-106	tracking station, first artificial Earth satellite 1957 Dec p 37-43 space exploration, first man-made satellite 1957 Nov p 66
spin, proton spin, high energy physics, 'strong' force, electron scattering,	satellite, Sputnik II results 1957 Dec p 58
dependence of nuclear forces on spin 1966 July p 68–78	satellite, Sputnik I results 1958 Apr p 50
spin-orbit coupling, atomic nucleus, shell model, 'magic numbers', table of	satellite, Sputnik I results 1958 July p 49
isotopes 1951 Mar p 22–26	sputter-ion pump, spectroscopy, vacuum, ultra-high vacuum, oil diffusion
spin-orbit force, atomic nucleus, shell model, optical model, high-energy physics, liquid-drop model, charge exchange, resonance 'particles',	pump, cryogenic pump, mass, vacuum down to 10 12 mm of mercury 1962 Mar p 78–90
proton, neutron, structure of the nucleus 1959 Jan p 75–82	sputtering, chemical accelerators, molecular beam, ion beam, high-energy
spinal cord, maintained in vitro 1949 June p 27	chemistry 1968 Oct p 44–52
spinal reflexes, conditioned reflex, reflex conditioning, "spinal" cats (1 e	squall lines, weather, thunderstorms, wind, jet stream, low-altitude jet
with resected spinal cords) walk' 1950 Nov p 20–22	streams 1961 Aug p 120–131
spunning technology, artificial fibers, natural fibers, textile fibers, yarn 1972 Dec p 46-56	squatters, shantytowns, land use, urban sociology, housing, 'barriadas' of Lima, Peru 1967 Oct p 21-29
spiral arms, Milky Way, nebulae, globular cluster stars, dust clouds,	squid, cephalopods, giant axon, nerve impulse 1951 Apr p 64-69
galactic center, seeing a galaxy from the inside 1950 Feb p 30-39	giant axon, nerve impulse, sodium pump, nerve cells, 'voltage clamp'
stellar populations, galactic structure, stellar classification and	technique 1958 Dec p 83–90
structure of galaxies 1958 Nov p 44–50 [203]	Srinivasa Ramanujan, mathematics history, number theory, obituary by
radio astronomy, galaxy, interstellar hydrogen, mapping the spiral arms of the local Galaxy 1959 Dec p 92–104	G H Hardy 1948 June p 54–57 St. Ninian's Isle, medieval archeology, Scotland, silver artifacts, the
Faraday rotation, galactic magnetism, starlight polarization, spiral	treasure of St. Ninian's 1960 Nov p 154–166
galaxies, stiffening of spiral arms by Milky Way magnetic field	St. Venant body, rheology, flow of matter, Hooke body, Newton body,
1965 June p 4654	how solds flow 1959 Dec p 122–138 [268]
spiral galaxies, Milky Way, interstellar hydrogen, radio astronomy 1955 May p 42-48	stability, control theory, mathematics, cybernetics, computer
Clouds of Magellan, radio astronomy, galactic structure, resolution of	programming, feedback, frequency response, dynamic programming, 'policy' concept 1964 Sept. p. 186-200
structure of nearest galaxies 1956 Apr p 52-58	'policy' concept 1964 Sept p 186-200 stable isotopes, periodic table, 'synthetic' elements, transuranium
galaxy, stellar evolution, universe, stellar populations, distribution of	elements, table of elements, isotopes, first of a series of articles.
'population I' and 'II' stars in local Galaxy 1956 Sept p 92-99 gravitational collapse, galactic evolution, barred galaxy, elliptical	recounting the completion of the table of elements (43 [technetium]
galaxies, evolution from taxonomy 1956 Sept p 100–108	61[promethium], 85[astatine] and 87[francium]) and the first five
galactic evolution, elliptical galaxies, origin and history from shape	transuranic elements (93[neptunium], 94[plutonium], 95[americium], 96[curium] and 97[berkelium]) 1950 Apr. p. 38–47 (242)
1963 Jan p 70-84	96[curium] and 97[berkelium]) 1950 Apr p 38-47 [242] staining techniques, brain circuitry, microscopy, nerve signals, nerve
Faraday rotation, galactic magnetism, starlight polarization, spiral	structure, olfactory system, Golgi stain, Nissl stain
arms, stiffening of spiral arms by Milky Way magnetic field 1965 June p 46-54	1971 July n. 48_60 (1227)
galactic center, Milky Way, quasars, radio source, Sagittarius A,	stairs, architecture, stride, walking 1974 Oct p 82–90
Seylert galaxies 1974 Apr. p. 66-77	standard expectancy method, Hutterites, mental health, psychosty epidemiology 1953 Dec. p. 31, 37 (440)
spiral growth, crystal growth, screw dislocation, loop growth	epidemiology 1953 Dec p 31-37 [440] standard of length, interferometry, mercury 198, interference fringes
spiral structure, interstellar hydrogen, radio astronomy, galaxy, galactic	10.19 Aug n 49 62
nucleus, mapping the local Galaxy 1959 Aug p. 44-51 (260)	standards of measurement, physical constants, measurement, alocate of
Spirit Cave site, Hoabinhian culture, Neolithic archeology, agricultural	ngnt, electron mass, particle charge, least-squares method, Planck's
revolution, Inaliand 1072 Apr p. 24.41 feats	inch and pound redefined
split-brain experiments, cerebral cortex, mammalian brain, corpus callosum, brain hemispheres, monkey, cat, human post operative	Stanford Linear Accelerator Center, electron accelerator linear
subject 1964 Jan p 42–52 [174]	accelerator, klystron tube, two-mile Stanford Linear Accelerator
174] 2C-22 p 4 mic 500	1061 Nov 40 67 6000

ercury 78-90 energy 44–52 et 20-131 las' of 21-29 64-69 mp' 83-90 ry by 54–57 54-166 ody, 8 [268] nming, 86–200 lium], ve cıum], 7 [242] [1227] 82-90 7 [440] 48--53 ty of ick's 8 [337] p 61 rd Linear Accelerator 1961 Nov p 49-57 [322] 219

Stanhope demonstrator, logic machine, Boolean algebra, symbolic logic,	Steel production blast formers are as a second
3/10gisiii) 1057 N in m 60 73	steel production, blast furnace, iron ore, smelting, furnace smelting under
staphylococcus, hospital infections, antibiotic resistance, revival of classical aseptic routines 1959 Jun p. 41-45	iron ore, Labrador deposit
the table as a second of the s	continuous casting, metallurgical engineering, economic advantages
penicilin effective 1957 Mar n. 70	1063 Dec. p. 74 99
nospital-acquired infection 1959 May p. 78	oxygen injection, open hearth furnace, basic oxygen process
synthetic peniciliin 1061 Apr p 20	1968 Apr p 24-31 direct-reduction processes, iron ore, iron melting, sponge iron
staphytococcus septicentia, antibiotics, antibiotic resistance, toxicology	1976 July n 68-80
oxidative phosphorylation, cause of death from staphylococcal	Norwegian plant near Arctic Circle 1949 June n. 28
starfish, escape response, marine invertebrates, limpets, scallop, prey-	USSR tries oxygenation of blast furnaces 1949 Sept p 28
predator relationship, snail, chemical signals	rolling plus bending 1964 May p 64 roasting taconite with scrap 1966 June p 56
1972 July n 92-100 (125.11	roasting taconite with scrap 1966 June p 56 continuous-process plant 1968 Aug p 46
Startight, why it twinkles 1950 Feb n 27	by basic-oxygen (L-D) process 1975 Mar p 49
starlight polarization, Faraday rotation, galactic magnetism, spiral galaxies, spiral arms, stiffening of spiral arms by Milky Way	Stein's paradox, batting averages, estimation theory, statistics, approach
magnetic field 1965 June p 46-54	of averages to norm 1977 May p 119-126 [363]
Starling, cardiology, 'Law of the Heart', biography of Ernest Starling	stelae cult, New World archeology, Maya cermonial center, British Honduras, Lubaantun, Pusilha sites 1972 May p 82-91
1951 Oct. p. 56-61	stellar aberration, Earth, orbital motion, Gamma Draconis, discovery of
cardiology, heart metabolism, 'Law of the Heart', venous catheter	stellar aberration by James Bradley 1964 Mar p 100-108
Study 1957 Feb. p 50-54	stellar anatomy, globular cluster stars, stellar evolution, Red Giant stars,
Starlings' hypothesis, lymphatic system, intercellular fluid, lymph nodes, lymph vessels, lymph ducts, lymphatic circulation, lymphedema, the	stellar modeling, main-sequence stars, H-R diagram, age of cluster
body's 'second circulation' 1963 June p 80–90	stars 1970 July p 26-39 stellar associations, galaxy, stellar evolution, massive stars, nebulae,
startation, diet, fasting, human nutrition, metabolism, kwashiorkor,	massive stars are short-lived 1956 Feb p 36-41
marasmus, physiology of starvation 1971 Oct. p 14-21 [1232]	stellar cluster, interstellar gas, pleiades, stellar evolution, mass and
states of matter, synthetic diamonds, high pressure, carbon phases,	motion in and of clusters, clues to formation
thermodynamics 1955 Nov. p. 42–46 statistical sampling, quality control, sequential analysis, probability	1962 Nov p 58-66 [285]
1953 Mar. p 29–33	stellar composition, variable stars, organ-pipe analogy, stellar brightness 1975 June p 66-75
statistical seriation, New World archeology, mound builders, agricultural	stellar distances, galactic yardstick, spectroscopy, calcium absorption
revolution, Mississippian culture, pre-Columbian Mississippi valley	lines supply new 'yardstick' 1961 Jan p 107-119
on verge of urban revolution 1952 Mar p 22-27	stellar energy, thermonuclear reaction, proton-proton interaction, carbon cycle 1950 Jan p 42-45
statistics, 'social physics', social sciences, physical sciences, correlating social statistics and physical law 1948 May p 20–23	cycle 1950 Jan p 42-45 stellar evolution, binary stars, solar system 1949 Oct p 42-45
mode, median, sampling, sequential sampling 1952 Jan p 60-63	supernovae, Crab Nebula 1949 Dec p 18-21
information theory, thermodynamics, noise, redundancy, digital	astronomy, galaxies, red shift, galactic recession, universe expansion,
storage media, analogue storage media, information compression,	science, general relativity, astronomy 1900-1950 1950 Sept p 24-27 color, short-lived stars, main sequence 1953 Mar p 34-37
automatic control, information 1952 Sept p 132–148 probability, mathematical proof, fundamental reasoning, fundamental	color, short-lived stars, main sequence 1953 Mar p 34-31 stellar populations, galactic rotation, galactic evolution, fundamental
research, What is probability? 1953 Sept p 128~138	research, Why do galaxies have spiral form? 1953 Sept p 89-99
mathematics, probability, combinatorial analysis, normal curve,	galaxy massive stars nebulae, stellar associations, massive stars are
Brownian motion, Markov chain, Pascal's triangle, probability	short-lived 1956 Feb p 36-41 thermonuclear reaction, element abundance, universe, isotopes,
theory 1964 Sept p 92–108 archeology, coins, numismatics, Taxila hoard, India	'synthetic' elements, particle accelerator, experimental astrophysics
1966 Feb p 102~111	1956 Sept p 82-91
batting averages, estimation theory, Stein's paradox, approach of	galaxy, universe, stellar populations, spiral galaxies, distribution of 'population I' and 'II' stars in local Galaxy 1956 Sept p 92-99
averages to norm 1977 May p 119–126 [363]	'population I' and 'II' stars in local Galaxy 1956 Sept p 92-99 extraterrestrial life, main-sequence stars, binary stars, probability of
steady-state universe, cosmology, energy transformation, universe, according to Hoyle 1956 Sept p 157-166	extra terrestrial life calculated from astronomical numbers
steam distillation, essential oils, oleoresins, vacuum distillation, flavors,	1960 Apr p 55-63
perfumes 1953 Aug p 70-74	globular cluster stars, dwarf stars, H-R diagram, spectroscopy,
steam engine, mine drainage, technology history, Watt, pumps, Industrial	subdwarf stars bluer because poorer in heavy elements 1961 June p 111-120
Revolution, Newcomen engine, origins of steam engine 1964 Jan p 98-107	interstellar was inlegades is tellar cluster, mass and motion in and of
steam turbines, electric power generation, ship propulsion, turbine blade	clusters, clues to formation 1962 Nov p 38-00 [203]
design construction of turbines, applications, history	stellar rotation, Doppler effect, spectroscopy, violet shift, red shift, correlation of rotational velocity with mass 1963 Feb p 46-53
1969 Apr p 100-110 energy transformation, energy demand, fuel-conversion efficiency,	Clouds of Magellan, galaxy, ultraviolet radiation 1964 Jan p 32-41
power, prime movers, magnetohydrodynamics, gas turbine, internal	nebulae. Orion nebula, ultraviolet radiation, hydrogen density, dating
combustion engine, fuel cell, solar cells, power, nuclear power,	interstellar bodies 1965 Feb p 90-101 gravity, space-time continuum, gravitational collapse thermal pressure.
comparative efficiencies of energy transformation pathways in	singularity, gravitational radius, black hole 1967 Nov p 88-98
industrial civilization 1971 Sept p 148–160 [608] steatopygia, anthropology, human evolution, chimate, human migration, steatopygia, anthropology, human evolution, chimate, human migration, steatopygia, anthropology, human evolution, chimate, human migration, and human	udal effects, gravitation effects, contact binaries, binary stars, stellar
and non-lation genetic variation, ancient inigiation and numer	fission 1968 June p 34-40 globular cluster stars, Red Giant stars, stellar modeling, main-sequence
1900 Sept B 112-127 [00-]	stars, H-R diagram, stellar anatomy, age of cluster stars
steel, materials technology, transformation-induced plasticity, strength,	1970 July p 26-39
ductility ausform process, materials technology,	Crab Nebula, neutron stars, pulsar, radio source, gravitational collapse,
heat-treating for strength 1963 Aug p 72–82	gravitational collapse, neutron stars, pulsar, solid stars, white dwarfs,
steel frame construction, wind bracing, skystrapers, construction will	ultradense matter 19/1 Feb D 24-31
technology, Effel Tower, cantilever, these p 92–105	celestial energy, cosmological 'hangups', energy cycle, power, radiation energy, entropy per unit energy, gravitational energy, thermonuclear
steel markets, from ore, coal reserves, transportation, changing geography	energy 1971 Sept p 30-39 [662]
31001 11902 Jan D 444-33	infrared astronomy 1973 Apr p 28-40

spectroscopy, age of elements, age of universe, element formation, mass spectroscopy, nucleochronology, radioactive nuclei, supernovae	vitamin D, sex hormones, cholesterol, cortisone 1955 Jan p 52-60 [8] cell receptors, endocrine hormones, gene regulation, hormonal action,
1974 Jan p 69-77 chondrites, element formation, planets, solar system chemistry, space	protein synthesis 1976 Feb p 32-43 [1334] adrenal hormones, brain circuitry, gonadal hormones, hormone-
exploration 1974 Mar p 50-65	sensuive neurons, sex hormones, sexual behavior, sex differences,
comet, galactic formation, nebular hypothesis, solar system evolution 1975 Sept p 32-41	action of hormones on nerve tissue 1976 July p 48–58 [1341] total synthesis 1951 June p 30
black hole, interstellar gas, magnetohydrodynamics, neutron stars,	as anesthetic 1955 Aug. p 49
pulsar, supernovae, X-ray sources 1975 Dec. p. 38–46	total synthesis 1955 Sept p 76
supernovae, spectroscopy, supernovae observed in other galaxies	acetate start in material 1957 Mar p 72
1976 Dec p 89–101	act by gene activation 1972 Mar p 42 stick-slip friction, friction, bearing, violin bow, lubrication, uses and
black hole, binary stars, galactic energetics, globular cluster stars, neutron stars, X-ray stars, astronomy satellites, 'bursters'	prevention of friction 1956 May p 109-118
1977 Oct p 42–55 [385]	stickleback, courtship display, animal behavior, sexual behavior, displacement activity, ethology 1952 Dec p 22-26 [414]
interstellar matter, supernovae, shock waves, gravitational collapse, stellar formation, birth of massive stars 1978 Apr p 110-118 [3005]	stillbirths, some found seasonal 1951 Apr p 35
stellar formation, galaxy structure, interstellar matter, Milky Way,	stilt house, building construction, architecture, primitive architecture,
supernovae, galactic dust clouds, nebulae, Gum Nebula, Bok	chmate, igloo, teepee, yurt, tent, sod hut, adobe house, hogan
globules 1972 Aug p 48-61	1960 Dec p 134-144
Bok globules, gravitational instability, interstellar clouds, interstellar dust, local galaxy 1977 June p 66-81 [366]	stimulated emission, maser, microwave amplification, quantum mechanics, coherent radiation, principles and uses of maser
dust, local galaxy Interstellar matter, supernovae, shock waves, gravitational collapse,	1958 Dec p 42-50 [215]
stellar evolution, birth of massive stars 1978 Apr p 110-118 [3005]	laser, maser, coherent radiation, first lasers as 'optical masers'
in Orion nebula 1955 Nov p 49	1961 June p 52-61 [274]
interstellar matter, variable stars, infrared radiation, lithium, youngest	stimulus localization, brain circuitry, mammalian brain, nerve signals, sensory systems, visual perception, superior colliculus in integration
stars? 1967 Aug p 30 stellar interiors, heat, thermonuclear reaction, hydrogen bomb, solar	at brain function 1972 Dec p 72–82 [553]
corona, proton-proton interaction, helium reaction, ultrahigh	Stirling cycle, cryogenic technology, refrigeration, hot-air engine, closed
temperatures 1954 Sept p 144-154	cycle, displacer 1965 Apr p 119–127
stellar magnetic fields, cosmic radiation, radio emissions,	Stirling engine, Philips air engine, heat engines, external combustion
megnetohydrodynamics, electrical induction, electricity in space 1952 May p 26-29	engines, hot-air engine 1948 July p 52-55 automobile engines, external combustion engines, engine efficiency
stellar modeling, globular cluster stars, stellar evolution, Red Giant stars,	1973 Aug p 80–87
main-sequence stars, H-R diagram, stellar anatomy, age of cluster	Stjerneborg, observatory, astronomy, scientific instrumentation, Tycho
stars 1970 July p 26-39	Brahe, science history, 16th century Hven observatory
stellar populations, Palomar Observatory, cosmology, red shift,	1961 Feb p 118-128 Stockholm, land use, urban planning, cities, land ownership, urban
interstellar matter, galactic evolution, Hale telescope, first yield from 200 inch telescope 1952 Feb p 43-51	renewal, Stockholm as a planned city 1965 Sept p 106–115
stellar evolution, galactic rotation, galactic evolution, fundamental	Stokes law, insect flight, aerodynamics 1958 Dec p 92-98
research, Why do galaxies have spiral form? 1953 Sept. p 89–99	stomach mucosa, digestion, hydrochloric acid, alcohol, aspirin, self-
galaxy, stellar evolution, universe, spiral galaxies, distribution of 'population I' and 'II' stars in local Galaxy 1956 Sept p 92-99	digestion safeguards 1972 Jan p 86–93 [1240] stomatopods, animal behavior, mantis shrimps, marine life
spiral arms, galactic structure stellar classification and structure of	1976 Jan p 80–89
galaxies 1958 Nov p 44–50 [203]	Stone Age civilization, Greek prehistory, Neolithic archeology, Franchthi
stellar rotation, Doppler effect, stellar evolution, spectroscopy, violet	Cave 1976 June p 76–87
shift, red shift, correlation of rotational velocity with mass 1963 Feb p 46-53	Stone Age hunters, organic relics peat bog, Neolithic archeology
stellar shift, artificial satellite, relativity theory, Mercury, electromagnetic	1952 May p 20-25 Arctic, Alaska, Siberia, Greenland, Dorset culture, circumpolar Stone
frequency shift, perihelion shift, clock paradox, general relativity,	Age culture 1954 June p 82–88
testing Einstein's general theory of relativity 1959 May p 149–160	stone artifacts, New World archeology, Omon Portage site, Eskimo,
stellar temperature, photocell, light amplification, photomultiplier, variable stars, interstellar matter 1952 Mar p 56-59	Bering land bridge, human migration, Alaska, gateway to America
stellerator, fusion reactor, nuclear power, magnetic bottle, plasma	1968 June p 24–33 West Indies, New World archeology, Hispaniola, island chains, sea
confinement, deuterium, tritium, magnetic pumping	routes, seafaring hunters from Central America?
1958 Oct p 28-35 stereochemistry, olfactory nerve sensory perception, olfaction,	1969 Nov p 42–52 [652]
stereochemical theory of odor perception 1964 Feb p 42–49	stone heads, Easter Island, Polynesian culture 1949 Feb p 50-55 stone tools, New World archeology, Folsom man, Cochise culture
stereogram experiments, binocular vision, random-dot stereograms	1951 Feb n 15-19
vision, visual perception 1976 Mar p 80-86 [569]	human evolution, Olduvai Gorge, toolmakers, man-apes, hand axes
stereoisomers, catalysis, polymers, materials technology, industrial chemistry, synthesizing giant molecules 1957 Sept. p 98–104	1954 Jan p 66-71
catalysis, polymers, materials technology, industrial chemistry.	science history, Neanderthal man, Devon caves, human evolution, idea of man's antiquity 1959 Nov p 167-176
synthesizing giant molecules 1957 Nov p 98–104	Isimiia, Paleolithic culture, cultural archeology, Old Stone Age site in
catalysis, lithium, polymerization, promotion of polymerization by lithium 1963 Jan p 88-102	Ainca 1961 Oct p 118-120
stereopsis, binocular vision, depth perception eve. neurophysiology.	anthropology, Paleolithic culture, obsidian, Andes, El Inga site, prehistoric man in the Andes 1963 May p. 116-128
optic chiasm, visual cortex 1972 Aug n 81_95 112551	Solutrean culture, Upper Paleolithic hunting peoples, tool in enteres
'stereoregular' polymers, polymers, isotactic polymers, polyethylene, catalytic polymerization, polypropylene, precisely constructed	France, 21,000 years ago 1964 Aug n 06 04
polymers 1961 Aug n 33_11 [315]	aborigine, Paleoninic man, dingo, Tasmanian devil, Australian
stereoscopic images, pattern recognition, visual percention, computer	aborigine, antiquity of man in Australia 1966 Mar p 84-93 [628] New World archeology, South America, early man in New World,
graphics, fexture discrimination, depth perception	12,000 D C 1067 Nov 44 60
sterilization, biological pest control, screw worm fly, X-ray, pest control,	tool assemblages, multivariate analysis factor analysis nomenter
tarile, eragication of the screw norm for then one = 54 Ct	analysis, rateoninic areneology, Bordes method, stone tools as fossils
neroid normones, semzophrenia, stress, adrenal gland	of behavior 1969 Apr p 70–84 [643] Paleolithic campsite, huts, structures from 300,000 years ago
1949 July p 44-47	1969 May p 42-50

cave dwellers, Peru, human evolution, Ayacucho site	down a last a last
1971 Apr n 26	streamer chamber, linear accelerator, track detectors, pulse generator,
cumate, Europe, numing, Paleolithic settlements 1076 E. L. = 00	1907 UCL p 38-46
timate, cumural evolution, hunter-gatherer societies, Nile prehistory,	Strength materials technology start transformation 1954 Feb p 64-68
Palaclata automitic Settlements 1976 Aug p 30-	ductility 1000 No. 2015
Paleolithic culture, Kalambo Falls site 1958 July p Australopithicous, toolmaker 1974 Aug p	streptococcus, Ascholf bodies, rheumatic fever, infection, immine
X1. 1.1	10 response, fleart disease, hypersensitivity 1965 Dec. n. 66-74
Stonehenge, radiocarbon dating, built 4,000 years ago, 2,000 years befor	a possible vaccine 1966 Dec. p. 65
Druids 1953 June p 25-2	
Neolithic archeology, woodhenges, henge monuments, Britain	Type The antibiotic Tevolution (ATV Will by the Division of the Control of the Co
1970 Nov p 30–3	bacteria, gene transformation, drug resistance, pneumococcus,
Sarsen carvings 1053 Dag n 5	o Tivery, McLeod and McCarly
storage mode, liquid crystals, display devices, dynamic scattering	isoniazid, isotopes, tuberculosis, para-aminosalicylic acid,
television receiver 1970 Apr p 100_10	6 pharmacology, tracing action of TB drugs 1956 Nov p 135-144
storage rings, high-energy physics, synchrotron, particle accelerator,	antibiotics, protein synthesis, genetic code, nbosome, DNA, RNA,
colliding beam accelerator, spark chamber	mutation, 'misreadings' induced by antibiotic alterations of
1966 Nov p 107-116 [322] antimatter, electron-positron annihilation, J particle, psi particle,	1966 Apr p 102-109
charm, color, quark, high-energy physics, virtual particles	on market 1952 Sept p 74
1975 June p. 50-6	made safer 1955 Dec p 50
straight line, mathematics, Euclidean geometry, geometry, curved line,	genetic code 1964 July p 44 stress, hypertension, atherosclerosis, angiotensin, etiology and care of
reach and limits of axiomatic approach 1956 Mar p 104-11.	hypertension 1948 Aug. p 44-47
strain gauge, obstetrical labor, uterine muscle, measurement of forces in	psychosomatic illness, alarm reaction, kidney disorder, cardiovascular
uterine muscle at delivery 1950 Mar p. 52-54	disease, adrenal gland 1949 Mar p 20-23 [4]
earthquake prediction, laser, interferometry, Earth crust	schizophrenia, adrenal gland, steroid hormones 1949 July p 44-47
1969 Dec p 88–95	, , , , , , , , , , , , , , , , , , , ,
strain hardening, crystal structure, dislocations, forging, metal forming, creep in metals 1975 Apr. p. 116–125	experience with and appraisal of two hormonal drugs
creep in metals 1975 Apr p 116-125 circle-grid analysis, crystal structure, metal stamping, sheet-metal	
production, metal structure 1976 Nov p 100–108	neurosis, learning, psychotherapy, experimental neuroses in cats 1950 Mar p 38-43 [443]
strange particles, high-energy physics, pions, muon, conservation of	epidemiology, anoxia, pregnancy, Down's syndrome, trisomy 21,
strangeness, sorting out the multiplicity of particles	etiology of Down's syndrome 1952 Feb p 60-66
1957 July p 72-88 [213]	asthma, allergy, hypersensitivity 1952 Aug p 28-30
strangler trees, ecology, evolution, tropical rain forest 1954 Jan p 78-80	conditioned reflex, neurosis, operant conditioning, Pavlov, psychology,
Strategic Arms Limitation Talks, see SALT	thyroidectomy, emotional behavior, neurosis, conditioned reflex is
strategic balance, ABM, arms race, ICBM, MIRV, SLBM, mutual assured destruction, counterforce strategy, national security	shown to be a neurosis 1954 Jan p 48-57 [418] ACTH, war, combat fatigue, psychiatry, Korean war studies of
1969 Aug p 17–29 [330]	battlestress 1956 Mar p 31-35
strategic bombing, atomic bomb, civilian morale, 'bomb not absolute	ulcer, psychosomatic illness, 'executive monkey' experiment
weapon' says P M S Blackett 1949 Mar p 19	1958 Oct p 95~100
strategic weapons, ABM systems, arms race, ICBM, MIRV, atomic	learning, behavior disorders, animal behavior, stimulation in infancy
weapons, SALT, atomic test ban, prospects for freeze on numbers	1960 May p 80–86 [436]
and qualitative improvement of weapons 1971 Jan p 15-25 arms control, atomic test ban, 'fireball blackout', EMP effect,	ACTH, adrenal hormones, glucocorticoids, pituitary hormones 1971 Jan p 26-31 [532]
underground nuclear explosions 1972 Nov p 15-23 [342]	coming behavior insychosomatic illness, rats
arms control, satellite, SALT, verification technology, 'national	1972 June p 104-113 [544]
technical means of verification' 1973 Feb p 14-25 [346]	adrenal hormone 1961 Oct p 88
arms race, bombers, SALT, AWACS, military expenditures,	see also alarm reaction
antiaircraft sytems 1973 Aug p 11–19	stress-corrosion failure, corrosion tunnel, crystal structure, dislocations, metalliding 1966 Feb p 72-81
ABM, ICBM, MIRV, atomic armaments, counterforce strategy, mutual assured destruction, arms race 1973 Nov p 18–27	metalliding 1966 Feb p 12-01 stress fracture, crystal structure, materials technology, metallurgy, cracks
assured destruction, arms race 1973 Nov p 18-27 counterforce strategy, atomic weapons, cruise missiles, MIRV, arms	and fracture 1960 Feb p 94-104
race, missile accuracy, CEP, accuracy as multiplier of force	stretch reflex, central nervous system, reflex arc, neuromuscular control,
1975 July p 14-23	muscle contraction, nerve inhibition, interneuron, motor neuron,
arms race, cruise missiles, SALT, tactical weapons, control systems,	Renshaw cell, synapse 1966 May p 102-110 muscle control, muscle spindles, psychophysics, sensory feedback,
navigation systems 1977 Feb p 20-29 [691]	servomechanisms, tendon organ 1972 May p 30-37 [1249]
arms control, SALT, cruse missiles, bombers, Carter administration 'comprehensive proposal' for US-USSR force levels	strown fields, tektites, meteoritic impact, origin of glassy stone
1977 Aug p 24–31 [696]	1961 Nov p 58-65 [802]
attackfied charge internal combustion engine, atmospheric engine, Otto-	striatum, animal behavior, learning, cerebral cortex, bird nervous system,
Langer engine history of Otto engine 1967 Mar p 102-112	crows, pigeons, canaries, chickens 1968 June p 64–76 [515]
strationary sandstone sand dune, granite, weathering, turbidity	stride, architecture, stairs, walking 1974 Oct p 82-90 string instruments, physics, harmony, wind instruments, piano, voice,
currents, sand origin and history from shape of grain 1960 Apr p 94-110	musical scale acquistics, agreeable melodies and physical laws
Antarctica, glaciation, Antarctic continental glacier, ice, volume of ice	1948 July p 32-41
1 legged montrollegitions 1904 Dept D 194-170 (994)	musical instruments, 'following bow' experiment, Raman waves, 'wolf
in glacier satellite cratering lunar time scale, Ranger	note, physics of bowed string 1974 Jan p 87-95 note, physics of bowed string 1975 Dec p 23-29
	strip-mining, coal mining, land reclamation 1975 Dec p 23-29 Stromgren sphere, Gum Nebula, ionized-hydrogen cloud, Milky Way
to the state of th	19/1 DEC B 20~27
aurora, noctifucent clouds, meteorology	Strong engine, diffraction grating, spectroscopy, ruling engine, Rowland
aviation, flight at flight attracts shock waves exploding wire, generation	engine, the ultimate machine 1952 June p 45-54 strong-focusing synchrotron, particle accelerator, plans for 100 billions
of shock waves by exploding wire 1962 May p 102-112	electron-volt machine
strong ecology, trout, mortality, population constant, more 1 96	Ciferior ton annual
ones and let the big ones go'	

colliding beam accelerator, cyclotron, synchrotron, high-energy	suggestibility, hypnosis, sleep, physiological psychology, experiments in hypnosis 1957 Apr p 54-61
physics, design and purposes of big accelerators 1958 Mar p 64-76 [251]	suicide, epidemiology, psychoanalysis 1954 Nov p 88–96
Brookhaven gets ok 1954 Mar p 45	adolescence, family, alienation, racial discrimination, divorce, poverty,
trong' force, high-energy physics, baryons, mesons, 'eightfold way',	infant mortality, crime, drug addiction, changes in American family
conservation laws, Regge trajectory, resonance 'particles', 'bootstrap'	structure 1974 Aug p 53-61 [561]
hypothesis 1964 Feb p 74–93 (296)	unemployment, suicides among the jobless 1963 July p 68
proton spin, spin, high-energy physics, electron scattering, dependence	sulfa drugs, biochemistry, enzymes, virus, citric-acid cycle, metabolism,
of nuclear forces on spin 1966 July p 68-78	co-enzymes, antibiotics, science, biochemistry 1900-1950 1950 Sept p 62-68
hadrons, high-energy photons, photons as hadrons	metabolite antagonists, imitative drugs, folic acid, para-aminobenzoic
1971 July p 94–104	acid 1951 Apr p 60-63
particle interaction, high-energy physics, gauge theory, field theory, weak force electromagnetic force 1974 July p 50-59	sulfur, sulfuric acid, agricultural technology, Frasch process, sulfur
weak' force, electromagnetic force 1974 July p 50-59 gravity, electromagnetic force, 'weak' force, supergravity, symmetry,	demand-and-supply production 1970 May p 62–72
quest for unified theory of basic forces 1978 Feb p 126–143 [397]	sulfur bacteria, purple bacteria, phototropism, photosynthesis
strong interactions, mesons, nuclear binding force, particle physics,	1951 Nov p 68-72
fleeting associations of mesons and atomic nuclei	ATP, mineral cycles, biosphere, phosphorus cycle, sulfur cycle,
1956 Oct p 93–102 [207]	carboxylation cycle, eutrophication, mineral cycles in the biosphere
mesons, pions, particle physics, nuclear binding force, quantum of the	1970 Sept p 148–158 [1195]
strong force 1957 Jan p 84-92 [226]	sulfur cycle, ATP, mineral cycles, biosphere, phosphorus cycle, sulfur
dual-resonance model, high energy physics, hadrons, light-string theory quark 1975 Feb p 61-67	bacteria, carboxylation cycle, eutrophication, mineral cycles in the biosphere 1970 Sept p 148–158 [1195]
theory, quark 1975 Feb p 61-67 strontium-rubidium ratios, isotope dating, lead isotopes, radioisotope	biosphere 1970 Sept p 148–158 [1195] sulfur dome, in Mississippi delta 1951 Oct p 34
dating, geological and paleontological time dated by radioactive	sulfuric acid, sulfur, agricultural technology, Frasch process, sulfur
decay 1949 Aug p 48-51	demand-and-supply production 1970 May p 62-72
strychnine, alkaloids, plant physiology, morphine, 'hemlock',	Sumer, law code, Lipit Ishtar, Hammurabi, cuneiform script, earliest law
physostigmine, caffeine, comine, quinine, cocaine, ricinine, LSD,	code 1865 B C 1948 June p 44-47
human toxins in plant physiology 1959 July p 113-121 [1087]	cryptology, hieroglyphs, a 3,500-year-old agricultural handbook
total synthesis 1954 Dec p 56	1951 Nov p 54-55
stud gun, safety regulations 1963 Jan p 66	law code, hieroglyphs, Ur-Nammu 1953 Jan p 26–28
student body, ectomorphs preferred 1954 Nov p 52 subduction, continental drift, plate tectonics, scaling, sea-floor spreading,	Mohenjo-Daro, Harappan civilization, Indus valley, archeology 1953 Nov p 42-48
Earth crust, Triassic period, Pangaea, computer modeling,	archeology, cuneiform script, law code, 3000 B C to 1500 B C, Ur,
supercontinents, breakup of Pangaea traced	Nippur 1957 Oct p 70-83
1970 Oct p 30-41 [892]	pictograph, Vinca culture, writing, Tartaria tablets, Romania, cultural
subduction zones, continental drift, earthquake zones, magnetization	diffusion, Sumerian writing 1968 May p 30-37
patterns, mountain formation, plate tectonics, sea-floor spreading,	ancient trade, archeology, writing, Elamite culture, Mesopotamian
overview of the new geology 1972 May p 56-68 [900]	culture, Persia, Iran, Tepe Yahya 1971 June p 102–111 [660]
earthquake zones, island arcs, lithospheric subduction, mountain formation, plate tectonics, sea floor spreading, volcanic zones	hieroglyphic library 1952 Apr p 42 Sun, solar system, cosmology, dust cloud hypothesis, gravity, light
1975 Nov p 88–98 [919]	pressure, gravitational collapse, thermonuclear reaction, genesis of
subjective probability, psychology, probability, decision making, Monte	solar system 1948 May p 35-45
Carlo fallacy, gambling, subjective and objective probability	carbon cycle, thermonuclear reaction, sunspots, solar spectrum, nearest
1957 Nov p 128–138 [427]	star 1948 Nov p 26–39
submarine canyons, ocean floor, continental shelf 1949 Apr p 40-43	solar flares, ionospheric storms, aurora, sunspots, geomagnetic storms
ocean floor, turbidity currents, continental shelf, submarine avalanches and topography of ocean floor 1956 Aug. p 36-41	1951 Dec p 17–21
and topography of ocean floor 1956 Aug. p 36-41 submarune-launched ballistic missile, see SLBM	radio emissions, sunspots, magnetic storms, corpuscular streams 1955 June p 40-44
submersibles, marine technology, drilling platforms, ocean, supertankers,	balloon astronomy, ultraviolet radiation 1959 May p 52-59
containenzation, technology and the ocean	ultraviolet radiation, telemetry, astronomy, rocket borne
1969 Sept p 198-217 [887]	instrumentation 1959 June p 52-59
subsistence economy, economic development, industrialization, tropical	solar eclipse, ionosphere, solar flares, chromosphere, ultraviolet
rain forest, tropical rain forest, urbanization, resource management, Brazil, uneven national development 1963 Sept p 208-220	radiation, Earth-Sun chromosphere-ionosphere interaction
Brazil, uneven national development 1963 Sept p 208-220 subsistence herding, animal husbandry, Karimojong, cattle, Uganda	1962 Feb p 50-59
1969 Feb p 76–89	solar atmosphere, sunspots, rotation, magnetic field, eddies, solar atmospheric circulation 1968 Jan p 100-113
subterranean heat flow, ocean floor, East Pacific Rise, trench faults,	artificial satellite, ultraviolet radiation, ultraviolet astronomy,
earthquakes, convection currents 1961 Dec p 52-61	spectroheliograph 1969 June p. 92-102
suburbanization, U S population, population redistribution, U S census,	chromosphere, corona, eclipse phenomena, photosphere, solar corona
human migration, US census of 1970 1971 July p 17-25 suburbs, US census, urbanization, age sex distribution, baby boom,	1973 Oct n 68-79
family size, central city, US census at 1960 1961 July p 39-45	planets, solar system, space exploration, introduction to single-topic
nousing, urban planning, central city, cities, metropolitan area.	
conurbation, evolution of the metropolis 1965 Sept. p. 64_74	issue on the solar system 1975 Sept p 22–31
	neutrino, solar corona, solar energy, solar magnetism, sunspots
local government, cities, New York, metropolitan region, central city	neutrino, solar corona, solar energy, solar magnetism, sunspots 1975 Sept p 42-50 a variable (slightly) star 1955 Oct. p. 46
Northeast Corridor, regional planning 1965 Sent p. 134_148	neutrino, solar corona, solar energy, solar magnetism, sunspots 1975 Sept p 42-50 a variable (slightly) star 1955 Oct p 46 estimated life span 1957 Apr p 70
Northeast Corridor, regional planning 1965 Sept p 134-148 succulent plants, sand dune ecology, thermoregulation, behavioral	neutrino, solar corona, solar energy, solar magnetism, sunspots 1975 Sept p 42-50 a variable (slightly) star 1955 Oct p 46 estimated life span 1957 Apr p 70 first balloon photographs of Sun 1957 Nov p 68
Northeast Corridor, regional planning 1965 Sept p 134-148 succulent plants, sand dune ecology, thermoregulation, behavioral adaptation, symbiosis, adaptation, adaptive mechanism for life in hot acid environment 1959 July p 21 co.	neutrino, solar corona, solar energy, solar magnetism, sunspots 1975 Sept p 42–50 a variable (slightly) star 1955 Oct p 46 estimated life span 1957 Apr p 70 first balloon photographs of Sun 1957 Nov p 68 whole-body oscillations 1975 Sept p 54
local goverment, cities, New York, metropolitan region, central city, Northeast Corndor, regional planning 1965 Sept p 134-148 succulent plants, sand dune ecology, thermoregulation, behavioral adaptation, symbiosis, adaptation, adaptive mechanism for life in hot acid environment 1959 July p 91-99 suckling, animal behavior, developmental psychology, homing behavior,	neutrino, solar corona, solar energy, solar magnetism, sunspots 1975 Sept p 42–50 a variable (slightly) star 1955 Oct p 46 estimated life span 1957 Apr p 70 first balloon photographs of Sun 1957 Nov p 68 whole-body oscillations 1975 Sept p 54 Sun cycle, magnetic field, solar magnetism, photosphere, chromosphere, solar atmosphere. Il-year solar cycle explained 1966 Nov 5 54 62
local goverment, cities, New York, metropolitan region, central city, Northeast Corndor, regional planning 1965 Sept p 134-148 succulent plants, sand dune ecology, thermoregulation, behavioral adaptation, symbiosis, adaptation, adaptive mechanism for life in hot acid environment 1959 July p 91-99 suckling, animal behavior, developmental psychology, homing behavior, kittens, learning 1972 Dec p 18-25 [552]	neutrino, solar corona, solar energy, solar magnetism, sunspots 1975 Sept p 42–50 a variable (slightly) star 1955 Oct p 46 estimated life span 1957 Apr p 70 first balloon photographs of Sun 1957 Nov p 68 whole-body oscillations 1975 Sept p 54 Sun cycle, magnetic field, solar magnetism, photosphere, chromosphere, solar atmosphere. Il-year solar cycle explained 1966 Nov 5 54 62
Northeast Corndor, regional planning 1965 Sept p 134-148 succulent plants, sand dune ecology, thermoregulation, behavioral adaptation, symbiosis, adaptation, adaptive mechanism for life in hot acid environment 1959 July p 91-99 suckling, animal behavior, developmental psychology, homing behavior, kittens, learning 1972 Dec p 18-25 [552] sugar consumption, implicated in diseases	neutrino, solar corona, solar energy, solar magnetism, sunspots 1975 Sept p 42–50 a variable (slightly) star 1955 Oct p 46 estimated life span 1957 Apr p 70 first balloon photographs of Sun 1957 Nov p 68 whole-body oscillations 1975 Sept p 54 Sun cycle, magnetic field, solar magnetism, photosphere, chromosphere, solar atmosphere, 11-year solar cycle explained 1966 Nov p 54–62 Sun dogs, halos, ice crystals, optics, atmosphere halos
Northeast Corridor, regional planning 1965 Sept p 134-148 succulent plants, sand dune ecology, thermoregulation, behavioral adaptation, symbiosis, adaptation, adaptive mechanism for life in hot acid environment 1959 July p 91-99 suckling, animal behavior, developmental psychology, homing behavior, kittens, learning 1972 Dec p 18-25 [552] sugar consumption, implicated in diseases 1972 Nov p 54 sugar metabolism, insulin, amino-acid sequence, cell membrane, human physiology, action of insulin	neutrino, solar corona, solar energy, solar magnetism, sunspots 1975 Sept p 42–50 a variable (slightly) star 1955 Oct p 46 estimated life span 1957 Apr p 70 first balloon photographs of Sun 1957 Nov p 68 whole-body oscillations 1975 Sept p 54 Sun cycle, magnetic field, solar magnetism, photosphere, chromosphere, solar atmosphere, I1-year solar cycle explained 1966 Nov p 54–62 Sun dogs, halos, ice crystals, optics, atmospheric halos 1978 Apr p 144–152 [3006] Sun structure, sunspots, solar rotation, solar spectrum
Northeast Corridor, regional planning 1965 Sept p 134-148 succulent plants, sand dune ecology, thermoregulation, behavioral adaptation, symbiosis, adaptation, adaptive mechanism for life in hot acid environment 1959 July p 91-99 suckling, animal behavior, developmental psychology, homing behavior, kittens, learning 1972 Dec p 18-25 [552] sugar consumption, implicated in diseases 1972 Nov p 54 sugar metabolism, insulin, amino-acid sequence, cell membrane, human physiology, action of insulin 1958 May p 99-106 sugarcane, disease resistant plants plant breeding agreement and page 1972 properties.	neutrino, solar corona, solar energy, solar magnetism, sunspots 1975 Sept p 42–50 a variable (slightly) star 1955 Oct p 46 estimated life span 1957 Apr p 70 first balloon photographs of Sun 1957 Nov p 68 whole-body oscillations 1975 Sept p 45 Sun cycle, magnetic field, solar magnetism, photosphere, chromosphere, solar atmosphere, 11-year solar cycle explained 1966 Nov p 54–62 Sun dogs, halos, ice crystals, optics, atmospheric halos 1978 Apr p 144–152 [3006] Sun structure, sunspots, solar rotation, solar spectrum
Northeast Corndor, regional planning 1965 Sept p 134-148 succulent plants, sand dune ecology, thermoregulation, behavioral adaptation, symbiosis, adaptation, adaptive mechanism for life in hot acid environment 1959 July p 91-99 suckling, animal behavior, developmental psychology, homing behavior, kittens, learning 1972 Dec p 18-25 [552] sugar consumption, implicated in diseases 1972 Nov p 54 sugar metabolism, insulin, amino-acid sequence, cell membrane, human physiology, action of insulin 1958 May p 99-106 sugarcane, disease resistant plants, plant breeding, agronomy, plant disease, fungal infection, plant pathogens, mechanism of disease	neutrino, solar corona, solar energy, solar magnetism, sunspots 1975 Sept p 42–50 a variable (slightly) star 1955 Oct p 46 estimated life span 1957 Apr p 70 first balloon photographs of Sun 1957 Nov p 68 whole-body oscillations 1975 Sept p 54 Sun cycle, magnetic field, solar magnetism, photosphere, chromosphere, solar atmosphere, 11-year solar cycle explained 1966 Nov p 54–62 Sun dogs, halos, ice crystals, optics, atmospheric halos 1978 Apr p 144–152 [3006] Sun structure, sunspots, solar rotation, solar spectrum sunlight, photosynthesis, chlorophyll carolene retirene were
Northeast Corridor, regional planning 1965 Sept p 134-148 succulent plants, sand dune ecology, thermoregulation, behavioral adaptation, symbiosis, adaptation, adaptive mechanism for life in hot acid environment 1959 July p 91-99 suckling, animal behavior, developmental psychology, homing behavior, kittens, learning 1972 Dec p 18-25 [552] sugar consumption, implicated in diseases 1972 Nov p 54 sugar metabolism, insulin, amino-acid sequence, cell membrane, human physiology, action of insulin 1958 May p 99-106 sugarcane, disease resistant plants plant breeding agreement and page 1972 properties.	neutrino, solar corona, solar energy, solar magnetism, sunspots 1975 Sept p 42–50 a variable (slightly) star 1955 Oct p 46 estimated life span 1957 Apr p 70 first balloon photographs of Sun 1957 Nov p 68 whole-body oscillations 1975 Sept p 45 Sun cycle, magnetic field, solar magnetism, photosphere, chromosphere, solar atmosphere, 11-year solar cycle explained 1966 Nov p 54–62 Sun dogs, halos, ice crystals, optics, atmospheric halos 1978 Apr p 144–152 [3006] Sun structure, sunspots, solar rotation, solar spectrum

cave dwellers, Peru, human evolution, Ayacucho site	the two and the
1971 Apr p 36-	streamer chamber, linear accelerator, track detectors, pulse generator, new particle detector 1967 Oct. p. 38-36
cumule, Europe, hunting, Palcolithic settlements 1976 P. L on A	1907 UCL D 38-46
entitude, curtain evolution, nunter-gatherer societies, Nile prehistory.	Strength material a charles of the protography 1934 Feb p 64-63
Delegation to the second of the property of th	1968 Nov n 36.45
	streptococcus, Ascholf bodies, theumatic fever infection immine
Neolithic quarries in Britain	response, heart disease, hypersensitivity 1965 Dec p 66-74
Stonehenge, radiocarbon dating, built 4,000 years ago, 2,000 years before	a possible vaccine 1966 Dec. p. 65
Diulus 1953 luna n 26 2	the state of the s
Neolithic archeology, woodhenges, henge monuments, Britain	
1970 Nov. p. 30-3	bacteria, gene transformation, drug resistance, pneumococcus, recombinant DNA, biochemistry of Avery, McLeod and McCarty
Saisen carvings 1052 Day 5	8 experiment 1956 Nov p 48-53 [18]
storage mode, liquid crystals, display devices, dynamic scattering, television receiver 1970 Apr. p. 100-10.	ISOMIAZIO, ISOMORES, tuberculosis, nara aminocalizada and
storage rings, high-energy physics, synchrotron, particle accelerator,	pharmacology, tracing action of TB drugs 1956 Nov p 135-144
colliding beam accelerator, spark chamber	antibiotics, protein synthesis, genetic code, ribosome, DNA, RNA,
1966 Nov p 107–116 [323	mutation, 'misrcadings' induced by antibiotic alterations of
antimatter, electron-positron annihilation. I particle, psi particle	1500 Mpt p 102 Mpt
charm, color, quark, high-energy physics, virtual particles	on market 1952 Sept p 74 made safer 1955 Dec p 50
1975 June n. 50-62	genetic code 1964 July p 44
straight line, mathematics, Euclidean geometry, geometry, curved line,	stress, hypertension atherosolerosis angiotensin etiology and care of
reach and limits of axiomatic approach 1956 Mar p 104-114	hypertension 1948 Aug. p 44-47
strain gauge, obstetrical labor, uterine muscle, measurement of forces in uterine muscle at delivery 1950 Mar n 52-55	psychosomatic illness, alarm reaction, kidney disorder, cardiovascular
uterine muscle at delivery 1950 Mar p 52-55 earthquake prediction, laser, interferometry, Earth crust	
1969 Dec p 88–95	schizophrenia, adrenal gland, steroid hormones 1949 July p 44-47 cortisone, ACTH, inflammation, degenerative diseases, hormone,
strain hardening, crystal structure, dislocations, forging, metal forming,	experience with and appraisal of two hormonal drugs
creep in metals 1975 Apr p 116-125	1950 Mar p 30–37 [14]
circle-grid analysis, crystal structure, metal stamping, sheet-metal	neurosis, learning, psychotherapy, experimental neuroses in cats
production, metal structure 1976 Nov p 100–108	1950 Mar p 38-43 [443]
strange particles, high-energy physics, pions, muon, conservation of strangeness, sorting out the multiplicity of particles	epidemiology, anoxia, pregnancy, Down's syndrome, trisomy 21,
1957 July p 72–88 [213]	etiology of Down's syndrome 1952 Feb p 60-66 asthma, allergy, hypersensitivity 1952 Aug p 28-30
strangler trees, ecology, evolution, tropical rain forest 1954 Jan p 78–80	conditioned reflex, neurosis, operant conditioning, Pavlov, psychology,
Strategic Arms Limitation Talks, see SALT	thyroidectomy, emotional behavior, neurosis, conditioned reflex is
strategic balance, ABM, arms race, ICBM, MIRV, SLBM, mutual	shown to be a neurosis 1954 Jan p 48-57 [418]
assured destruction, counterforce strategy, national security	ACTH, war, combat fatigue, psychiatry, Korean war studies of
1969 Aug p 17–29 [330]	battlestress 1956 Mar p 31–35
strategic bombing, atomic bomb, civilian morale, 'bomb not absolute weapon' says P M S Blackett 1949 Mar p 19	ulcer, psychosomatic illness, 'executive monkey' experiment 1958 Oct p 95-100
strategic weapons, ABM systems, arms race, ICBM, MIRV, atomic	learning, behavior disorders, animal behavior, stimulation in infancy
weapons, SALT, atomic test ban, prospects for freeze on numbers	1960 May p 80–86 [450]
and qualitative improvement of weapons 1971 Jan p 15-25	ACTH, adrenal hormones, glucocorticoids, pituitary hormones
arms control, atomic test ban, 'fireball blackout', EMP effect,	1971 Jan p 26–31 [532]
underground nuclear explosions 1972 Nov p 15-23 [342] arms control, satellite, SALT, venfication technology, 'national	coping behavior, psychosomatic illness, rats 1972 June p 104-113 [544]
technical means of verification' 1973 Feb p 14–25 [346]	adrenal hormone 1961 Oct p 88
arms race, bombers, SALT, AWACS, mulitary expenditures,	see also alarm reaction
antiaircraft sytems 1973 Aug p 11–19	stress-corrosion failure, corrosion tunnel, crystal structure, dislocations, metalliding 1966 Feb p 72-81
ABM, ICBM, MIRV, atomic armaments, counterforce strategy, mutual	metalliding 1966 Feb p 12-05 stress fracture, crystal structure, materials technology, metalling, cracks
assured destruction, arms race 1973 Nov p 18-27 counterforce strategy, atomic weapons, cruise missiles, MIRV, arms	and fracture and fracture 1960 Feb p 94-104
race, missile accuracy, C E P, accuracy as multiplier of force	stretch reflex, central nervous system, reflex arc, neuromuscular control,
1975 July p 14-23	muscle contraction nerve inhibition, interneuron, motor neuron,
arms race, cruise missiles, SALT, tactical weapons, control systems,	Renshaw cell, synapse 1966 May p 102–110
navigation systems 1977 Feb p 20–29 [691]	muscle control, muscle spindles, psychophysics, sensory feedback servomechanisms, tendon organ 1972 May p 30-37 [1249]
arms control, SALT, cruise missiles, bombers, Carter administration 'comprehensive proposal' for US-USSR force levels	crown fields, telepties, meteoritic impact, origin of glassy stone
1977 Aug p 24-31 [696]	1961 Nov p 38-03 100-1
stratified charge, internal combustion engine, atmospheric engine, Otto	striatum, animal behavior, learning, cerebral cortex, bird nervous system, crows pigeons, canaries, chickens 1968 June p 64-76 [515]
Langen engine history of Otto engine 1967 Mar p 102-112	crows pigeons, canaries, chickens stride, architecture, stairs, walking 1968 June p 64-76 [217]
stratigraphy, sandstone, sand dune, granite, weathering, turbidity	etrang instruments, physics, harmony, wind instruments, piano, voice,
currents, sand origin and history from shape of grain 1960 Apr p 94-110	musical scale acquetics agreeable melodies and physical laws
Antarctic continental glacier, ice, volume of ice	1948 July D 32-41
-1- mars applications 1902 Sept p 132-140 [001]	musical instruments, 'following bow' experiment, Raman waves, 'wolf' note, physics of bowed string 1974 Jan p 87-95
moon, lunar geology, satellite, cratering, lunar time scale, Kanger	1975 Dec p 23-29
1 -4- manha	Stromoren sphere, Gum Nebula, lonized-liydrogen cloud, wilky way
stratosphere, upper atmosphere, ionosphere, radio communication, surora, noctilucent clouds, meteorology 1949 Jan p 30–39 aurora, noctilucent clouds, meteorology 1952 Feb p 20–23	Strong engine, diffraction grating, spectroscopy, ruling engine, Rowland
aurora, noctificent classification 1952 Feb p 20–23	= 1 1 1
track photography meteorites, shock waves, exploung	strong-focusing synchrotron, particle accelerator, plans for 100 billion-
of shock waves by exploding with	electron-volt machine 1953 May p 40–45
of shock waves by exploding wife stream ecology, trout, mortality, population control, moral keep the little stream ecology, trout, mortality, population control, moral keep the little stream ecology, trout, mortality, population control, moral keep the little stream ecology, trout, mortality, population control, moral keep the little stream ecology, trout, mortality, population control, moral keep the little	
ones and let the big ones go' 1953 May p 81-80	

cosmic radiation, pulsar, radio emissions, superdense matter	surface-to-volume ratio, hummingbird, metabolism, body temperature,
1971 July p 74–85	thermoregulation, hibernation 1953 Jan p 69-72 surfactant, synthetic detergents, anionic detergent, cationic detergent,
galaxy structure, interstellar matter, Milky Way, stellar formation, galactic dust clouds, nebulae, Gum Nebula, Bol globules	nature and action of synthetic detergents 1951 Oct p 26-30
1972 Aug. p 48-61	flotation, mineral separation, bubbles, collector ions, ore beneficiation
spectroscopy, age of elements, age of universe, element formation, mass	1956 Dec p 99-110
spectroscopy, nucleochronology, radioactive nuclei, stellar evolution	alveoli, lung collapse, premature infants, lecithin, breathing, surface tension, hyaline membrane disease, soaplike agents regulate surface
dense stars, hinary stars, X-ray binary stars 1974 Jan p 69–77	tension in lungs 1962 Dec p 120–130
dense stars, binary stars, X-ray binary stars 1975 Mar p 24-35 black hole, interstellar gas, magnetohydrodynamics, neutron stars,	fetal lungs, infant, hyaline membrane disease, lung 1973 Apr p 74-85
pulsar, stellar evolution, X-ray sources 1975 Dec p 38-46	carbon dioxide, neuston, marine life, microlayer oceanography, ocean
Chinese starcharts, Tycho's supernova, Kepler's supernova, 'guest	surface, rainwater composition 1974 May p 62–77 [913]
stars', the seven observed supernovae 1976 June p 100–107	surgery, disease, morbidity, archeology, record of illness among the ancients 1949 Jan p 52-55
stellar evolution, spectroscopy, supernovae observed in other galaxies 1976 Dec p 89-101	sutures, surgical needles, surgical stitching 1950 Nov p 44-47
interstellar matter, shock waves, gravitational collapse, stellar	scalpels, tools 1951 Nov p 62-66
formation, stellar evolution, birth of massive stars	dialysis, heart-lung machine, kidney machine 1954 Aug. p 24-27
1978 Apr p 110–118 [3005]	military medicine, medicine, science history, Pare, life and work of Ambroise Pare 1956 Jan p 90–96
helium to beryllium 1952 Mar p 40 in Lupus proposed 1965 May p 57	anesthesia, pain, cocaine, procaine, medical research,
observed in Sumer 1976 July p 66	neuropharmacology, pharmacology, psychiatry, research in pain
superplasticity, materials technology, metalliding, microduplex structure,	suppression 1957 Jan p 70–82
thermomechanical processing, grain structure, metals that can be	hibernation, hypothermia, shock, metabolism, body temperature,
formed like plastics 1969 Mar p 28-35 supersonic flight, heat barner, ayiation, lift barner 1953 Dec p 80-84	artificial lowering of body temperature for surgery and shock 1958 Mar p 104–114
supersonic flight, heat barrier, aviation, lift barrier 1953 Dec p 80-84 aerodynamics, shock waves, wind tunnel, molecular beam, ultra-high	gunshot wounds, medical history, assasination of U S President
altitude aerodynamics 1958 Jan p 36-42	McKinley 1963 Mar p 118–120
some boom, shock waves, noise pollution, supersonic aircraft design,	medical care, surgical specialties, mortality rates, malpractice claims,
geometry of shock waves 1962 Jan p 36-43	post-operative negligence 1973 Sept p 90-98 cerebral vascular accident, atherosclerosis, microvascular surgery,
aeronautics, commercial aircraft, aircraft design, sonic boom, aviation industry, technology and economics of supersonic transport	cerebral hemorrhage, repair and prevention of stroke by
1964 June p 25–35	microvascular bypass operation 1978 Apr p 58-67 [1385]
at Mach 2 1952 Sept p 69	autotransplantation of organs 1962 June p 80
strontium 90 fallout, commercial jet interiors 1959 Aug. p 62	Eastman 910 surgical glue 1963 Jan p 64 in excess 1977 Jan p 43
US competition with Concorde? 1963 Aug. p 48 supertankers, manne technology, drilling platforms, ocean, submersibles,	surgical isolator, dental research, germ-free environment, immune
containerization, technology and the ocean	response 1964 July p 78-88
1969 Sept p 198-217 [887]	surgical needles, surgery sutures, surgical stitching 1950 Nov p 44-47
surf, tsunamis, seiches, ocean waves, breakers, generation and propagation of ocean waves 1959 Aug. p 74-84 [828]	surgical prosthesis, knee joint, human anatomy, surgical replacement of the knee joint 1978 Jan. p 44-51 [1378]
propagation of ocean waves 1959 Aug. p 74–84 [828] beaches, sand dune, sand bar, berm, ocean, rip channels, conservation	surgical specialties, medical care, surgery, mortality rates, malpractice
of beaches 1960 Aug p 80–94 [845]	claims, post-operative negligence 1973 Sept p 90-98
surf clam, visual perception, visual systems, scallop, inhibitory impulse,	surgical stapler, cardiovascular surgery, vascular surgery, stapling technic
shadow-sensitive receptors, invertebrate 'eyes' as models for study of organization of sensation in perception 1963 July p 122-130	for joining vessels 1962 Oct p 48-56 surgical stitching, surgery, sutures, surgical needles 1950 Nov p 44-47
surface alloy, alloys, metalliding, materials technology, diffusion, molten	surrogate mother, behavioral psychology, emotional deprivation,
fluoride, electrolysis 1969 Aug. p 38-46	maternal deprivation, rhesus monkeys, infant monkey 'love'
surface area, dermatoglyphics, skin, hair, skin glands, thermoregulation,	1959 June p 68-74 [429]
structure and function of human skin 1965 Feb p 56-66 [1003] surface chemistry, materials technology, solid state physics, crystal	surveying, laser, optical communication, holography, welding, light, laser technology 1968 Sept. p 140-156
defects, epitaxial growth, precipitation in solids, 'doping', chemical	suspended animation, animal behavior, cryptobiotic animals, metabolism
properties of materials 1967 Sept p 210–220	anaerobic metabolism, Nematoda, Rotifera, Tardigrada
surface colors, color perception, chromatic saturation, hue 1975 Aug p 62-75 [565]	suspension bridges, bridges, aerodynamics, harmonic oscillation
surface defects, crystal growth, metal 'whiskers', lattice defects, growth of	1954 Nov p 60–71
metal whiskers 1960 July p 64-72	Sutton Hoo, ship burial, Anglo-Saxon King, a treasure hoard
surface deformation, fixed point theorems, mathematics, topology, contraction 1966 Jan p 105-110	Beowulf legend 1952 Apr. p. 42
surface geometry, area minimizing principle, measure theory,	suttrees, surgery, surgical needles, surgical sutching 1952 Apr p 42 1950 Nov p 44-47
mathematical model mathematical surfaces, soap bubbles	SV40 virus, adenoviruses, cancer virus, DNA virus, DNA recombination
1976 July p 82–93	gene transformation, tumor-virus antigen, virus etiology of cancer
surface mining, excavating machines, tunneling, rock borers, earth- moving, mining 1967 Nov p 74-85	1966 Mar p 34-41 gene culture, polyoma virus, cell transformation, viral DNA, viral
surface tension, adhesive, molecular attraction, elastic energy, epoxy	carcinogenesis 1967 Apr n 28-37 lincol
resins molecular repulsion, micromechanics of adhesion	cancer, gene transformation, chromosome mapping tissue culture
alveoli lung collapse premature infants, lecithin, breathing, surfactant,	somatic cells, hybrid cells, genetics of human cancer
nvaline membrane disease, soaplike agents regulate surface tension	Svea, commerce, Vikings, nomads, Scandinavia, Vinland, Siegfried
in lungs 1962 Dec. p. 120–130	legend, seafaring, appraisal of 400-year Viking ascendance
boundary phase hypothesis superdense water, water II, polymenzation polywater, thermal conductivity, evidence for water	1067 May = 66 79
11 argued 1970 Nov p. 52-71	swamp, climate, marshland, ecology, eutrophication, wetlands, natural history of marsh, effect on climate 1958 Oct p 114-122 (840)
cavilation, droplet-levitation technique, liquids, negative pressure concept, tensile strength 1972 Dec. p. 28-71	Swanscombe cranium, Homo sapiens Neanderthal man Charment III
water strider, backswimmer, which gig beetle, ecology, springfall	Cancy this skull human evolution, antiquity of Homo sapiens
aquatic insects of the water surface	Sweden, assembly lines, mass production, work satisfaction, worker
1978 Apr p 134-142 [1387]	teams, management science, 'scientific management'
	1975 Mar p 17–23
	• • • •

superconductors

architecture, lighting, solar radiation, building construction, glass	A
1968 Sept p 100 200	electromagnetism, mobium alloys, magnetism, proton beam focusing generation of intense magnetic fields 1967 Mar p 114-123
an ponduon, rickets, vitamin D, ultraviolet radiation, osteogenesis,	Citantum effects congress du trata
artificial light, biological clock, suntaining, vitamin D, body's response	I macroscopic quantum effect photographed 1971 Mar p. 74.24
1975 July n. 68-77 (1325)	BCS theory, crystal structure, electrical properties of metals.
proton-proton fusion 1957 Lin n 2.1	pounds; interediated erystais, tayeren
sumike stars, multiple-star systems, planetary systems, frequency of 'solar	electric power transmission lines 1972 Apr n 94 01
systems', survey of 123 nearby stars 1977 Apr p 96-104 sunrise, sunset, light scattering, green flash, green flash explained	electromagnetic flight, transportation, linear induction motor linear
1960 Lin n 112-122	synchronous motor, 'magneplane' vehicle, magnetic levitation
sunset, sunrise, light scattering, green flash, green flash explained	electromagnetism, mobium 1973 Oct p 17-25
Sunspots Sup earthor early thereason Leaves 1960 Jan p 112-122	niobium, molybdenum 1962 June p 82
sunspots, Sun, carbon cycle, thermonuclear reaction, solar spectrum, nearest star 1948 Nov p 26-39	plastics, plastic superconductor synthesis proposed 1964 Aug p 39
Sun, solar flares, ionospherie storms, aurora, geomagnetic storms	alloys, alloy by ultrarapid cooling 1964 Sept. p 88 d c transformer 1966 Nov p 71
1951 Dec. p. 17–21	higher transition temperatures 1967 July p 42
aurora, magnetic storms, cone of avoidance, solar wind, solar rotation, corpuscular streams, cycles in 'solar wind' 1955 Feb p 40-45	alloys, intense magnetic fields 1970 May p 56
corpuscular streams, cycles in 'solar wind' 1955 Feb p 40-45 Sun, radio emissions, magnetic storms, corpuscular streams	see also organic superconductor supercontinents, continental drift, glaciation, Gondwanaland, Laurasia
1955 June n. 4044	paleomagnetism, Glossopteris, sea-floor spreading plate tectonics
magnetic field, solar magnetism, Zeeman effect, mapping changes in solar magnetic field 1960 Feb. p. 52-62	continental drift confirmed 1968 Apr p 52-64 [874]
solar magnetic field 1960 Feb p 52-62 Sun, solar atmosphere, rotation, magnetic field, eddies, solar	continental drift, plate tectonics, scaling, subduction sea-floor
atmospheric circulation 1968 Jan p. 100–113	spreading, Earth crust, Triassic period, Pangaea, computer modeling breakup of Pangaea traced 1970 Oct p 30-41 [892]
Sun structure, solar rotation, solar spectrum 1975 Apr. p. 106–114	supercooling, ice, snow, water, frost, condensation nuclei, ice worms how
neutrino, solar corona, solar energy, solar magnetism, Sun 1975 Sept p 42-50	water freezes 1959 Feb p 114-122
carbon 14 abundance, climate, ice ages, Maunder minimum, solar	helium, superfluidity, neutron scattering, fountain effect, 'quasi particles' model of liquid helium 1960 Nov p 138–150 [272]
physics, dendrochronology 1977 May p 80-92 (925)	fluid dynamics, liquid, nucleation, cryogenics, crystal growth behavior
suntanning, cancer, ultraviolet radiation, melanocytes, epidermis, skin,	of supercooled fluids 1965 Jan p 38-46
vitamin D 1968 July p 38-46 artificial light, biological clock, sunlight, vitamin D, body's response to	amorphous solid, materials technology, glass, crystal structure geometry of glass, two-phase glasses 1967 Sept p 126-136
light 1975 July p 68-77 [1325]	cryogenics, helium 3/helium 4 dilution, nuclear cooling, approaching
superconductive amplifier, superconductivity, low-temperature physics,	absolute zero, Pomeranchuk method 1969 Dec p 26-33 supercritical boiler, 1,150 degrees F, 4,500 p s 1 1953 July p 41
critical field strength, superconductive motor, fluxtrap, superconductive bearing, applications of superconductivity	superdense matter, cosmic radiation, pulsar, radio emissions, supernovae
1960 Mar p 74-82	1971 July p 74-65
superconductive bearing, superconductivity, low-temperature physics,	superdense water, boundary-phase hypothesis, water II polymerization polywater, thermal conductivity, surface tension, evidence for water
critical field strength, superconductive motor, fluxtrap, superconductive amplifier, applications of superconductivity	H argued 1970 Nov p 32-77
1960 Mar p 74-82	superfluidity low-temperature physics, cryogenic technology, helium
superconductive glass, at 42 degrees K 1971 Feb p 47	superconductivity 1949 June p 30-39 [206] helium 1, helium 2, seond sound, quantum mechanics low-temperature
superconductive motor, superconductivity, low-temperature physics, critical field strength, fluxtrap, superconductive bearing,	physics, liquid helium properties 1958 June p 30-35 [224]
superconductive amplifier, applications of superconductivity	helium, supercooling, neutron scattering, fountain effect, 'quasi
1960 Mar p 74-82	helium 3 liquid phase gas phase solid state physics quantum effects
superconductivity, low-temperature physics, cryogenic technology, helium, superfluidity 1949 June p 30-39 [206]	quantum fluids, phase transitions 1976 Dec p 5057
electrical resistance, magnetism, cryogenics, upper limit of temperature	superfluidity helium, quantum mechanics, vortex ring macroscopic quantum effects, quantized vortex rings 1964 Dec p 116-122
of superconductivity 1957 Nov p 92-103 [227] low-temperature physics, critical field strength, superconductive motor,	oungraphs v. Adil v. Way, local clusters, galactic clusters
fluxtrap, superconductive bearing, superconductive amplifier,	1954 July p 30-55
annlications of superconductivity 1960 Mar p 74-82	supergravity, gravity, electromagnetic force 'weak' force 'strong' force symmetry, quest for unified theory of basic forces
cryogenic technology, computer technology, superconducting computers 1961 July p 124-136	1978 Feb p 126-143 [371]
electromagnetism, shaped field, magnetic bottle, materials technology,	superheated fluid, bubble chamber cloud chamber liquid hydrogen 1955 Feb p 46-50 [216]
development and applications of supermagnets 1962 June p 60-67 [279]	comprison stellar evolution. Crab Nebula 1949 Dec p 18-21
semiconductor, superconductivity in semiconductors	radio star Crab Nebula, Cassioneia, galactic collision, with 200 radio
1964 June p 30–39	stars counted, some speculation on their nature 1953 Jan p 17-21 cosmic radiation, massive nuclei high-energy physics Milky Way
electric current, Josephson effects, microwave emission, tunnel junction, quantum mechanics, confirmation and applications of	magnetic field, particle acceleration fundamental research where do
T when offerts 1900 May p 30-37	cosmic rays come from? 1953 Sept p 64-70 [239] synchrotron radiation, radio star Crab Nebula natural synchrotron
aventum effects magnetism, magnetic vortexes, superconductors,	1957 Mar p 32-00
macroscopic quantum encer process and a certain	cosmic radiation, galactic magnetism, cosmic ray showers evidence for particles of 10 ¹⁸ ev energy 1959 Nov p 134-146
metals increases with pressure	radio galaxies gravitational collapse, nonthermal emission
publication of the 'BCS theory' 1973 May p. 43	synchrotron radiation, intensity of galactic radio emission 1962 Mar p 41~49 [278]
in organic solids uperconductors, energy transfer, electron pairs, organic superconductor, uperconductor 1965 Feb p 21–27	polarization, astronomy, Crab Nebula, photometric observations of
proposal for room-temperature superconduction National Magnet	1902 Apr p 34-03
magnetic field, magnetism, Bitter solehold, 0 5 1 1965 Apr p 66-78	nova duturists cosmic radiation cosmic ray showers, galactic halo synchrotron radiation particle acceleration, abundance energies sources of
as machanics magnetic licid, magnetic	cosmic rays 1969 Feb p 50-63
Meissner effect, quantum methanics, magnetime effects in impermeability, quantized vortexes, quantum effects in 1965 Oct p 57-67	

1966 Feb p 21-29

1968 May p 30-37

tarantula, digger wasp, symbiosis, predator-prey relationship
1952 Aug. p 20-23

Tartaria tablets, pictograph, Vinca culture, writing, Romania, Sumer, cultural diffusion, Sumerian writing 1968 May p 3

sensitivity, invariant/variable dyad 1972 Sept. p 72-80	
nthane process, coal gasification, energy resources, gasification	
processes, Lurgi process, Hygas process, CO2 acceptor process, coal	T
technology 1974 Mar p 19-25	L
nthetic attractants, insecticide, insect attractant, chemotaxis, odor-	Talla anti-dismalanda antigana Daglia ammuna sustam lumnhatia
baited lure, pheromones, third-generation insecticides	T-cells, antibody molecule, antigens, B-cells, immune system, lymphatic system, lymphocytes 1973 July p 52–60 [1276]
1964 Aug p 20–27 [189]	system, lymphocytes 1973 July p 52–60 [1276] antibodies, bursa, cell differentiation, humoral immunity, B-cells,
nthetic detergents, anionic detergent, cationic detergent, surfactant,	immune system, lymphocytes, thymus 1974 Nov p 58–72 [1306]
nature and action of synthetic detergents 1951 Oct p 26–30	antibodies, cell membrane, histocomptability, antigens, immune
onthetic diamonds, high pressure, carbon phases, thermodynamics, states	response, immunoglobin, lymphocytes, B-cells
of matter 1955 Nov p 42–46	1976 May p 30–39 [1338]
high pressure technology, from laboratory to industrial applications 1965 May p 38-46	T4 virus, bacteriophage, virus structure, DNA, mutation, morphogenesis,
crystal growth, diamond-crystal structure, graphite-crystal structure,	test-tube reconstruction of viral components
	1967 July p 60–74 [1079]
synthesis at low pressure 1975 Nov p 102–109 G E. in business 1955 Apr p 47	table of elements, periodic table, 'synthetic' elements, transuranium
pressure reduced by catalysis 1960 Jan p 74	elements, stable isotopes, isotopes, first of a series of articles,
synthetic' elements, cosmology, red shift, galactic recession, element	recounting the completion of the table of elements (43 [technetium],
abundance, universe expansion 1948 July p 20–25	61[promethium], 85[astatine] and 87[francium]) and the first five
periodic table, transuranium elements, table of elements, stable	transuranic elements (93[neptunium], 94[plutonium], 95[americium],
isotopes, isotopes, first of a series of articles, recounting the	96[curium] and 97[berkelium]) 1950 Apr p 38–47 [242]
completion of the table of elements (43 [technetium],	rare earths, fission products, abundance in fission products draws
61[promethium], 85[astatine] and 87[francium]) and the first five	attention to rare earths 1951 Nov p 26–30
transuranic elements (93[neptunium], 94[plutonium], 95[americium],	californium, einsteinium, fermium, 'synthetic' elements, transuranium
96[curium] and 97[berkelium]) 1950 Apr p 38–47 [242]	elements, mendelevium, radioactive decay, periodic table at 101
thermonuclear reaction, element abundance, stellar evolution, universe,	1956 Dec p 66-80 [243]
isotopes, particle accelerator, experimental astrophysics	element 98 californium 1950 May p 27
1956 Sept p 82–91	table of isotopes, atomic nucleus, shell model, 'magic numbers', spin-orbit
californium, table of elements, einsteinium, fermium, transuranium	coupling 1951 Mar p 22–26
elements, mendelevium, radioactive decay, periodic table at 101	tachistoscope, digit recall, short-term memory, long-term memory,
1956 Dec p 66-80 [243]	memory 1966 July p 90–95 [499]
uranium fission, nuclear fission, fission products, radium, isotropy,	tachyons, Cerenkov radiation, high-energy physics, speed of light, special
transuranium elements, science history, discovery of fission	relativity, hypothetical particles faster than light 1970 Feb p 68–77
1958 Feb p 76–84	taconite, iron ore, mining, ore beneficiation, low-grade ores, hematite
element 103, lawrencium, transuramium elements, high-flux isotope	1968 Jan p 28–35
reactor, heavy-ion linear accelerator, periodic table at 103	tactical nuclear weapons, arms race, neutron bomb, atomic weapons, U S decision to develop and deploy enhanced radiation weapons
1963 Apr p 68–78 alpha decay, transuranium elements, isotopes, nuclear stability, beta	1978 May p 44–51 [3007]
decay, radioactive decay, periodic table, the 'superheavy' elements	deployment by U S forces in Europe 1973 Oct p 47
beyond 103 1969 Apr p 56–67	not counted in SALT 1975 May p 42
isotopes, elements, radioactive decay, atomic nucleus, exotic isotopes of	tactical weapons, arms race, cruise missiles, SALT, strategic weapons,
light elements 1978 June p 60–72 [3010]	control systems, navigation systems 1977 Feb p 20–29 [691]
transuranium elements, element 97 1950 Mar p 28	tadpole, frog, thyroid hormone, amphibian metamorphosis, chemistry of
99 and 100 1954 Apr p 48	amphibian metamorphosis 1963 Nov p 110–118 [170]
17 atoms of 101 1955 July p 50	talking computers, speech synthesis, vocal tract, spectrograph, Voder
transuranium elements, nobelium 1958 July p 49	1972 Feb p 48–58
transuranium elements, element 103 1961 June p 84	communication, computer language, man-machine interface
5)nthetic fiber, rayon, nylon, synthetic macromolecules, cellulose, glass, man-made textile fibers 1951 July p 37-45	1975 Mar p 36–42 Tallensi, Ashanti, social anthropology, kinship, extended family, social
glass fiber, materials technology, composite materials, plastics,	structure, social psychology, primitive Tallensian and Ashantian
properties of 'two-phase' materials 1962 Jan p 124–134	kinship 1959 June p 146–158
terylene 1951 Apr p 34	tanker wastes, marine ecology, marine pollution, tar, pelagic tar
synthetic fuels, energy conservation, nuclear power, fossil fuel, solar	1975 June p 90–97
energy, energy policy of U S 1974 Jan p 20–29 [684]	tankers, natural gas, liquid natural gas, pipelines, storage, distribution of
synthetic hevea, rubber, man made natural rubber 1955 Dec. p 50	LNG 1967 Oct p 30–37
synthetic macromolecules, synthetic fiber, rayon, nylon, cellulose, glass,	energy economics, energy storage, economic geography, pipelines.
man made textile fibers 1951 July p 37-45	power transmission, power, economic geography of energy
synthetic polymers, amorphous polymers, polymer microstructure,	production, distribution and consumption
random coil model, semicrystalline polymers, thermoplastic	1971 Sept p 164–175 [669]
polymers 1975 Dec p 96–106 synthetic RNA, interferon induction, poly I C, virus disease	energy resources, fuel imports, liquid natural gas, technology
1971 July p 26–31 [1226]	assessment, risk estimation, LNG 1977 Apr p 22-29
syphilis, antibodies 1949 June p 27	tape recorders, music, sound reproduction, speech grammaphones, auditory perception, engineering of sound systems
synnx, bird song, communication, songbirds, mechanism of sound	
production 1969 Nov p 126–139 [1162]	1961 Aug. p 72–84 tapetum lucidum, bioluminescence, fish, fish-scale crystals, optics under
systems analysis, operations research, decision theory	water, camounage 1071 for $= 64.72$ (1200)
1951 Mar p 15-17	tar, marine ecology, marine pollution, tanker wastes, pelagic tar
computer programming, computer language, computer technology,	1975 June n. 00 07
how to write a computer program 1966 Sept p 112–124	tal salids, lossil luci, petroleum reserves, coal reserves, energy
ctites, urban transport, computer modeling, personal-transit systems, mass transit	consumption, liquid-fuel consumption, shale, coal liquefaction, the
systems design, accounting, computer technology, computer decision	idei problem 1040 Dec 22, 20
making, bookkeeping, uses of computers in organizations	chergy combines, oil shales, netroleum, shale retorts, notantial hand
or to imparato in organizations	hydrocarbon reserves 1966 Feb. p. 21, 20

1966 Sept p 192-202

Leibnitz, biography

swim bladder, marine biology, buoyancy, chambered nautilus, cuttlebone Dodgson, barber paradox, mathematics, paradox 1972 July p 38-46 1960 July p 118-128 counter-current exchange, rete mirabile, heat conservation, physiology, symmetry, handedness, natural and conventional 1948 Oct p 46-49 time reversal, reversible reactions, probability against it in macroscopic kidney, gill, physics of a physiological invention 1957 Apr. p 96 swimming, fish, laminar flow, turbulence, purpoises, how fishes and sea-1956 Aug. p 107-114 elementary particles, parity, 'weak' force, quantum, particle interaction, going mammals swim 1957 Aug p 48-54 [1113] right and left-handed particles breakdown of parity metabolism, salmon, fish migration, laboratory observation of energy 1957 Apr p 45-53 [231] production by salmon 1965 Aug p 80-85 [1019] antimatter, elementary particles, 'weak' force, parity, particle swinging, parametric amplification 1977 Apr p 60 interaction, recognition of 'fourth force' switchboards, complexity theory, networks, mathematics from networks 1959 Mar p 72-84 [247] parity, time reversal, CPT mirror, mirror images and switching systems 1978 June p 114-124 [3013] 1965 Dec p 28-36 [301] switching, fluid dynamics, amphfiers, Coanda effect, logic gates time reversal, parity, charge conservation, lambda decay, CPT 1964 Dec. p 80-88 conservation, proton spin, experiments in time reversal amorphous semiconductors, glass, memory, threshold switch, memory 1969 Oct p 88-101 1969 Nov p. 30-41 gravity, electromagnetic force, 'weak' force, 'strong' force, supergravity, switching circuits, symbolic logic, Boolean algebra, paradox quest for unified theory of basic forces 1978 Feb p 126-143 [397] 1950 Dec. p 22-24 synapse, acetylcholine, hormone, nerve impulse, serotonin, emotional switching elements, binary arithmetic, computer technology, integrated illness, neurotransmitters, central nervous system, physiological circuits, logic circuits, computer memory, microelectronics, hardware psychology, chemical mediation of nerve impulses of computer 1966 Sept p 74-85 1957 Feb p 86-94 switching phenomena, amorphous semiconductors, nonperiodic systems, electric fishes, sodium ion potential, electroplaques, neurophysiology, Ovshinsky devices, quantum mechanics, semiconductor technology acetylcholine, animal behavior, nerve impulse, bioluminescence 1977 May p 36-48 [362] 1960 Oct p 115-124 Switzerland, Paleolithic culture, 'lake-dwellers', prehistoric Swiss lakenerve conduction, reflex arc, motor neuron, membrane potential, dwellers 1961 Dec p 138-147 inhibitory impulse, transmitter molecules, nerve excitation, activity sychrotron radiation, Crab Nebula, X-ray astronomy, Scorpius, neutron at the neural synapse 1965 Jan p 56-66 [1001] stars, X-ray astronomy by rocket-borne instruments central nervous system, reflex arc, neuromuscular control, muscle 1964 June p 36-45 contraction, nerve inhibition, interneuron, motor neuron, stretch syllogisms, logic machine, Stanhope demonstrator, Boolean algebra, 1966 May p 102-110 reslex, Renshaw cell symbolic logic 1952 Mar p 68-73 bacterial toxin, tetanus, botulism, paralysis, nerve impulse, inhibitory Sylvester method, artificial respiration, Schaefer method impulse, motor neuron, Clostridium tetani, Clostridium botulinum 1968 Apr p 69-77 1951 July p 18-21 symbiosis, virus, herpes simplex, chick-embryo culture aplysia, neurones, behavior, learning, memory, heterosynaptic 1949 Nov p 50-53 facilitation, memory and learning at nerve-cell level tarantula, digger wasp, predator-prey relationship 1952 Aug p 20-23 1970 July p 57-70 [1182] ruminants, metabolism, cellulose digestion, anaerobic metabolism, acetylcholine, nerve impulse, neurotransmitters, nerve muscle synapse, fermentation, how cows digest grass 1958 Feb p 34-38 chemical mediation of neuromuscular transmission 1977 Feb p 106-118 [1352] sand dune ecology, thermoregulation, succulent plants, behavioral nerve circuits, dendrites, postsynaptic potential, olfactory bulb, retina, adaptation, adaptation, adaptive mechanism for life in hot acid 1978 Feb p 92-103 [1380] environment 1959 July p 91-99 microcircuits in the nervous system synchronous muscle, muscle fibril, sarcoplasmic reticulum, insect flight, algae, lichens, fungi, desert ecology, polar ecology, symbiotic nature of lichens 1959 Oct p 144-156 [111] asynchronous muscle, insect flight muscles 1965 June p 76-88 [1014] ecological niche, reef ecology, cleaning behavior, animal behavior, synchrotron, colliding beam accelerator, cyclotron, high energy physics, 1961 Aug p 42-49 [135] behavioral integration of reef ecology strong-focusing synchrotron, design and purposes of big accelerators algae, lichens, fungi, fungi as symbionts in lichens 1958 Mar p 64-76 [251] 1963 Feb p 122-132 high-energy physics, storage rings, particle accelerator, colliding beam fungi, orchids, mycorrhiza, plant evolution, adaptation, adaptive ability 1966 Nov p 107-116 [323] accelerator, spark chamber 1966 Jan p 70-78 of orchids particle accelerator, National Accelerator Laboratory, proton beam, bacteria, algal bloom, blue-green algae, simplest plants, resemblance to 1974 Feb p 72-83 neutrino beam 1966 June p 74-81 bacteria 1953 June p 45 alkaloids, butterfly, larvae, insect repellants, behavioral adaptation, elevator engineer Christofilos synchrotron radiation, radio star, supernovae, Crab Nebula, natural plant evolution, mimicry, butterfly-plant association 1957 Mar p 52-60 1967 June p 104-113 [1076] radio galaxies, gravitational collapse, nonthermal emission, chloroplast, mitochondria, cell organelle, DNA, prokaryote origin, protein synthesis, plastids, cell evolution, extra-nuclear genetic supernovae, intensity of galactic radio emission 1962 Mar p 41-49 [278] 1970 Nov p 22-29 [1203] activity in cell red shift, radio galaxies, radio astronomy, lunar occultation, quasars cell evolution, cell organelle, chloroplast, endosymbiosis, eukaryotic 1963 Dec p 54-62 cells, mitochondria, prokaryotic cells, algae, cilia, flagella, plastids found to be extra-galactic cosmic radiation, radio galaxies, galaxy M 82, exploding galaxies, 1971 Aug p 48-57 [1230] 1964 Nov p 38-47 1973 Apr p 96-102 [1270] proposed origin of cosmic rays bee, bumblebee energetics, flower cosmic radiation, cosmic ray showers, supernovae, galactic halo, 1975 Apr p 96-105 bivalves, clams, marine life, mollusks particle acceleration, abundance, energies, sources of cosmic rays animal behavior, lions, predator-prey relationship 1975 May p 54-65 1969 Feb p 50-63 algae, bacteria, legumes, nitrogen fixation, nitrogenase, genetic electromagnetic spectrum, electron manipulation, electron storage engineering, Haber process, rhizobium, legumes, nitrogenase, rings, spectroscopy, X-ray lithography, X-ray probe, uses of 1977 Mar p 68-81 biological nitrogen fixation 1977 June p 32-41 [365] bacteria, bioluminescence, fish, flashlight fishes 1977 Mar p 106-114 synchrotron radiation synchrotron radiation microscope, idea dies with Cambridge Electron 1977 Oct p 81 calvena tree, dodo bird 1974 Feb p 44 symbolic language, chimpanzee, learning, operant conditioning, binary synchrotron seismograph, CERN instrument 'feels' tremors numbers, animal behavior, chimpanzee learning arithmatic 1960 Nov p 94 1964 May p 98-106 [484] syntactic analysis, computer applications, analog-to-digital conversion, symbolic logic, Boolean algebra, switching circuits, paradox computer modeling, computer technology, computer as instrument 1950 Dec p 22-24 1966 Sept p 160-172 and as 'actor' in science logic machine, Stanhope demonstrator, Boolean algebra, syllogisms syntactic rules, grammar, language organization, linguistics, speech 1952 Mar p 68-73 1973 Dec p 110-117 [556] errors, spoonerisms mathematics, philosophy, Leibnitz, calculus, calculating machine, syntax, verbal communication, communication, acoustic formants,

1968 May p 94-100

phonetics, markedness/unmarkedness dyad, morphemes, context

Earth crust, mountain formation, isostasis, granitization, ocean basins,	telephone systems, communication networks, communication satellite,
ocean floor, comprehensive review of understanding (before	electronic switching, multiplexing, network theory, radio,
acceptance of continental drift) 1950 May p 32-41	communication, television systems 1972 Sept p 116–128
geology, mathematical model, scaling, block fault, geosynchine,	telescope, astronomy, image enhancement, electronic camera, image intensifier, electronic image processing 1956 Mar p 81–90
experimental geology 1961 Feb p 96-106	
dust storms, Mars, terrestrial planets, cratering, mountain formation,	camera, lens design, interferometry, computer graphics, image formation, light 1968 Sept p 96-108
erosion, hydrology, solar system 1975 Sept. p 106-117	
teepee, building construction, architecture, primitive architecture,	
climate, igloo, yurt, tent, sod hut, adobe house, hogan, stilt house	television, content analysis, allocation of time, a critical review by
1960 Dec p 134–144	educators 1951 June p 15–17
teeth, enamel, dentin, metabolism, fluoridation 1953 June p 38-42	underwater 1953 June p 32–37
tektites, meteoritic impact, strewn fields, origin of glassy stone	aggression, violence, delinquency, motion picture film, catharsis, effects of observing filmed violence 1964 Feb p 35-41 [481]
1961 Nov. p 58-65 [802]	of observing filmed violence 1964 Feb p 35-41 [481] cable television, communication technology, wired-city concept
Earth, meteorites, moon, moon as source of tektites	1971 Oct p 22–29
1964 Feb p 50-57	
comet, geomagnetism, magnetic reversals, meteorites, meteoritic	two million families glued to tube 1949 Sept p 26 in education 1951 Jan p 27
impacts 1967 July p 32–38	educational programming 1952 Mar p 40
from Earth or moon? 1961 June p 86 chemical composition 1962 June p 84	suppression abreaction 1955 July p 52
1000 31	see also color television
	television camera, Mars, space exploration, computer enhancement,
	telemetry, computer graphics, Mariner IV photographs, Martian
Telanthropus, a species of genus Homo 1970 June p 52 telecommunication, artificial satellite, communication satellite, orbital	topography 1966 Apr p 54-68
motion, Echo II satellite, radio, satellite communication systems,	vision, retina, photographic emulsion, vidicon, photochemistry, light,
	image detection, electronic camera 1968 Sept p 110–117
consideration of alternatives 1961 Oct p 90-102 artificial satellite, communication, data transmission, pulse-code	Mariner 6, Mars, Mariner 7, telemetry, orbital motion, polar cap,
modulation, digital transmission 1966 Sept. p 144–156	cratering, surface pictures and map of Mars 1970 May p 26-41
communication technology, digital transmission, microelectronics	television for farm areas, transmitter ranges to overlap 1948 Dec p 26
1977 Sept p 192–209 [382]	television receiver, liquid crystals, display devices, dynamic scattering,
radio astronomy, channels reserved for astronomical study	storage mode 1970 Apr p 100-106
1959 Dec p 82	television systems, communication networks, communication satellite,
radio astronomy, UHF TV bands to radio astronomy	electronic switching, multiplexing, network theory, radio,
1963 July p 65	communication, telephone systems 1972 Sept p 116–128
telemetry, artificial satellite, orbital motion, rocket launcher, plans for	television violence, communication, mass-communication media, message
US 10-pound (pre-Sputnik) satellite 1956 Nov p 41–47	systems, cultural patterns, sociology, mass communications as social
artificial satellite, solar particles, cosmic radiation, Van Allen belts,	environment 1972 Sept p 152–160 [679]
geomagnetism, radiation belts, space exploration, mapping of	temperament, behavior, encephalitis, hyperactive child, genetic disease,
radiation belts by Explorer satellites 1959 Mar p 39-47 [248]	amphetamines, possibly innate disease syndrome
ultraviolet radiation, Sun, astronomy, rocket-borne instrumentation	1970 Apr p 94–98 [527]
1959 June p 52–59	personality, child development, parental care, infant behavior,
Arctic Ocean, ocean circulation, meteorology, Northeast Passage, ice-	interaction of temperament and environment, nature-nurture
floe islands, bathymetry, marine biology, Soviet Arctic research	1970 Aug p 102–109 [529]
1961 May p 88–102	'temperate' infection, carcinogenesis, polyoma virus, recombinant DNA, virus disease, genetic transduction, viral induced malignancy
weather satellites, Tiros, atmospheric circulation, heat budget of Earth,	VITIS disease, genetic transduction, viral induced malignancy
air masses, videocameras, photographic weather maps, weather	1960 Nov p 63-71 [77]
forecasting 1961 July p 80-94	1960 Nov p 63-71 [77] temperature, heat, thermodynamics, quantum mechanics, entropy,
forecasting 1961 July p 80~94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of	1960 Nov p 63-71 [77] temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat?
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept. p. 58-63
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58-63 degrees C, means Celsius, not Centigrade 1949 May p 26
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58-63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature,
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting,	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58-63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58-63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer 1955 Oct p 50
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journey	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58-63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft navigation, spacecraft 1966 Mar p 42-52	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58-63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109-119
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft navigation, spacecraft 1966 Mar p 42-52 Mars, space exploration, computer enhancement, television camera,	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58-63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109-119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperatures materials 1954 Sept p 98-106
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft 1966 Mar p 42-52 Mars, space exploration, computer enhancement, television camera, computer graphics, Mariner IV photographs, Martian topography	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58-63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109-119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperatures materials 1954 Sept p 98-106 temperature measurement, oxygen isotopes, foramunifera abyssal
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft navigation, spacecraft 1966 Mar p 42-52 Mars, space exploration, computer enhancement, television camera, computer graphics, Mariner IV photographs, Martian topography 1966 Apr p 54-68	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58-63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109-119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperatures materials 1954 Sept p 98-106 temperature measurement, oxygen isotopes, foraminifera, abyssal sediments, paleontology, glaciation, climatic change, measurement
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journey 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft navigation, spacecraft 1966 Mar p 42-52 Mars, space exploration, computer enhancement, television camera, computer graphics, Mariner IV photographs, Martian topography 1966 Apr p 54-68 animal migration, polar bears, satellite, Arctic, satellite tracking of	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58–63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109–119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperature measurement, oxygen isotopes, foraminifera, abyssal sediments, paleontology, glaciation, climatic change, measurement of ancient temperatures 1958 Feb p 54–63
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft navigation, spacecraft 1966 Mar p 42-52 Mars, space exploration, computer enhancement, television camera, computer graphics, Mariner IV photographs, Martian topography 1966 Apr p 54-68 animal migration, polar bears, satellite, Arctic, satellite tracking of migratory animals 1968 Feb p 108-116 [1102]	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58–63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109–119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperatures materials 1954 Sept p 98–106 temperature measurement, oxygen isotopes, foraminifera, abyssal sediments, paleontology, glaciation, climatic change, measurement of ancient temperatures 1958 Feb p 54–63 temperature of Earth, climate, air pollution, atmospheric circulation
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft 1966 Mar p 42-52 Mars, space exploration, computer enhancement, television camera, computer graphics, Mariner IV photographs, Martian topography 1966 Apr p 54-68 animal migration, polar bears, satellite, Arctic, satellite tracking of migratory animals 1968 Feb p 108-116 [1102] moon, lunar surface, space exploration, high-resolution photography,	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58-63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109-119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperature measurement, oxygen isotopes, foraminifera, abyssal sediments, paleontology, glaciation, chimatic change, measurement of ancient temperatures 1958 Feb p 54-63 temperature of Earth, climate, air pollution, atmospheric circulation, carbon dioxide 'window', particulates, ozone, human activity and
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft navigation, spacecraft 1966 Mar p 42-52 Mars, space exploration, computer enhancement, television camera, computer graphics, Mariner IV photographs, Martian topography 1966 Apr p 54-68 animal migration, polar bears, satellite, Arctic, satellite tracking of migratory animals 1968 Feb p 108-116 [1102] moon, lunar surface, space exploration, high-resolution photography, Lunar Orbiter space missions 1968 May p 58-78	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58–63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109–119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperature measurement, oxygen isotopes, foraminifera, abyssal sediments, paleontology, glaciation, chimatic change, measurement of ancient temperatures 1958 Feb p 54–63 temperature of Earth, climate, air pollution, atmospheric circulation, carbon dioxide 'window', particulates, ozone, human activity and climatic change 1971 Jan p 32–42 [894]
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft navigation, spacecraft 1966 Mar p 42-52 Mars, space exploration, computer enhancement, television camera, computer graphics, Mariner IV photographs, Martian topography 1966 Apr p 54-68 animal migration, polar bears, satellite, Arctic, satellite tracking of migratory animals 1968 Feb p 108-116 [1102] moon, lunar surface, space exploration, high-resolution photography, Lunar Orbiter space missions 1968 May p 58-78 Mariner 6, Mars, Mariner 7, orbital motion, polar cap, television	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58-63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109-119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperatures materials 1954 Sept p 98-106 temperature measurement, oxygen isotopes, foraminifera, abyssal sediments, paleontology, glaciation, climatic change, measurement of ancient temperatures 1958 Feb p 54-63 temperature of Earth, climate, air pollution, atmospheric circulation, carbon dioxide 'window', particulates, ozone, human activity and climatic change 1971 Jan p 32-42 [894] temperature range, heat, life, heat and life 1954 Sept p 64-68
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft navigation, spacecraft 1966 Mar p 42-52 Mars, space exploration, computer enhancement, television camera, computer graphics, Mariner IV photographs, Martian topography 1966 Apr p 54-68 animal migration, polar bears, satellite, Arctic, satellite tracking of migratory animals 1968 Feb p 108-116 [1102] moon, lunar surface, space exploration, high-resolution photography, Lunar Orbiter space missions 1968 May p 58-78 Mariner 6, Mars, Mariner 7, orbital motion, polar cap, television camera, cratering, surface pictures and map of Mars	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58-63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109-119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperature measurement, oxygen isotopes, foraminifera, abyssal sediments, paleontology, glaciation, climatic change, measurement of ancient temperatures 1958 Feb p 54-63 temperature of Earth, climate, air pollution, atmospheric circulation, carbon dioxide 'window', particulates, ozone, human activity and climatic change 1971 Jan p 32-42 [894] temperature range, heat, life, heat and life 1954 Sept p 64-68 temperature regulation, 'cold-blooded' animals, ectothermy metabolism
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft navigation, spacecraft 1966 Mar p 42-52 Mars, space exploration, computer enhancement, television camera, computer graphics, Mariner IV photographs, Martian topography 1966 Apr p 54-68 animal migration, polar bears, satellite, Arctic, satellite tracking of migratory animals 1968 Feb p 108-116 [1102] moon, lunar surface, space exploration, high-resolution photography, Lunar Orbiter space missions 1968 May p 58-78 Mariner 6, Mars, Mariner 7, orbital motion, polar cap, television camera, cratering, surface pictures and map of Mars	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58-63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109-119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperatures materials 1954 Sept p 98-106 temperature measurement, oxygen isotopes, foraminifera, abyssal sediments, paleontology, glaciation, climatic change, measurement of ancient temperatures 1958 Feb p 54-63 temperature of Earth, climate, air pollution, atmospheric circulation, carbon dioxide 'window', particulates, ozone, human activity and climatic change 1971 Jan p 32-42 [894] temperature range, heat, life, heat and life 1954 Sept p 64-68 temperature regulation, 'cold-blooded' animals, ectothermy, metabolism, heterothermy, insect flight, sphinx moths, Mandura sexta warm-up
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 amimal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft navigation, spacecraft 1966 Mar p 42-52 Mars, space exploration, computer enhancement, television camera, computer graphics, Mariner IV photographs, Martian topography 1966 Apr p 54-68 animal migration, polar bears, satellite, Arctic, satellite tracking of migratory animals 1968 Feb p 108-116 [1102] moon, lunar surface, space exploration, high-resolution photography, Lunar Orbiter space missions 1968 May p 58-78 Mariner 6, Mars, Mariner 7, orbital motion, polar cap, television camera, cratering, surface pictures and map of Mars 1970 May p 26-41 signal reinforcement by artificial satellites, ghost effect	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58-63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109-119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperatures materials 1954 Sept p 98-106 temperature measurement, oxygen isotopes, foraminifera, abyssal sediments, paleontology, glaciation, climatic change, measurement of ancient temperatures 1958 Feb p 54-63 temperature of Earth, climate, air pollution, atmospheric circulation, carbon dioxide 'window', particulates, ozone, human activity and climatic change 1971 Jan p 32-42 [894] temperature range, heat, life, heat and life 1954 Sept p 64-68 temperature regulation, 'cold-blooded' animals, ectothermy, metabolism, heterothermy, insect flight, sphinx moths, Mandura sexta warm-up mechanisms 1972 June p 70-77 [1252] temperature standard, cesium clock, length standard mass standard time
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 amimal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft navigation, spacecraft 1966 Mar p 42-52 Mars, space exploration, computer enhancement, television camera, computer graphics, Mariner IV photographs, Martian topography 1966 Apr p 54-68 animal migration, polar bears, satellite, Arctic, satellite tracking of migratory animals 1968 Feb p 108-116 [1102] moon, lunar surface, space exploration, high-resolution photography, Lunar Orbiter space missions 1968 May p 58-78 Mariner 6, Mars, Mariner 7, orbital motion, polar cap, television camera, cratering, surface pictures and map of Mars 1970 May p 26-41 signal reinforcement by artificial satellites, ghost effect	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58–63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109–119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperatures materials 1954 Sept p 98–106 temperature measurement, oxygen isotopes, foraminifera, abyssal sediments, paleontology, glaciation, climatic change, measurement of ancient temperatures 1958 Feb p 54–63 temperature of Earth, climate, air pollution, atmospheric circulation, carbon dioxide 'window', particulates, ozone, human activity and climatic change 1971 Jan p 32–42 [894] temperature range, heat, life, heat and life 1954 Sept p 64–68 temperature regulation, 'cold-blooded' animals, ectothermy, metabolism, heterothermy, insect flight, sphinx moths, Mandura sexta warm-up mechanisms 1972 June p 70–77 [1252] temperature standard, cesium clock, length standard, mass standard, time standard, interferometry, measurement 1968 June p 50, 62
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 amimal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft navigation, spacecraft 1966 Mar p 42-52 Mars, space exploration, computer enhancement, television camera, computer graphics, Mariner IV photographs, Martian topography 1966 Apr p 54-68 animal migration, polar bears, satellite, Arctic, satellite tracking of migratory animals 1968 Feb p 108-116 [1102] moon, lunar surface, space exploration, high-resolution photography, Lunar Orbiter space missions 1968 May p 58-78 Mariner 6, Mars, Mariner 7, orbital motion, polar cap, television camera, cratering, surface pictures and map of Mars 1970 May p 26-41 signal reinforcement by artificial satellites, ghost effect 1961 Jan p 88 telephone, electronic telephone, solid-state electronics, integrated circuits, telephone based on integrated circuits 1978 Mar p 58-64 [3002]	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58–63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109–119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperatures materials 1954 Sept p 98–106 temperature measurement, oxygen isotopes, foraminifera, abyssal sediments, paleontology, glaciation, climatic change, measurement of ancient temperatures 1958 Feb p 54–63 temperature of Earth, climate, air pollution, atmospheric circulation, carbon dioxide 'window', particulates, ozone, human activity and climatic change 1971 Jan p 32–42 [894] temperature range, heat, life, heat and life 1954 Sept p 64–68 temperature regulation, 'cold-blooded' animals, ectothermy, metabolism, heterothermy, insect flight, sphinx moths, Mandura sexta warm-up mechanisms 1972 June p 70–77 [1252] temperature standard, cesium clock, length standard, mass standard, time standard, interferometry, measurement 1968 June p 50, 62
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 ammal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft navigation, spacecraft 1966 Mar p 42-52 Mars, space exploration, computer enhancement, television camera, computer graphics, Mariner IV photographs, Martian topography 1966 Apr p 54-68 animal migration, polar bears, satellite, Arctic, satellite tracking of migratory animals 1968 Feb p 108-116 [1102] moon, lunar surface, space exploration, high-resolution photography, Lunar Orbiter space missions 1968 May p 58-78 Mariner 6, Mars, Mariner 7, orbital motion, polar cap, television camera, cratering, surface pictures and map of Mars 1970 May p 26-41 signal reinforcement by artificial satellites, ghost effect 1961 Jan p 88 telephone, electronic telephone, solid-state electronics, integrated circuits, telephone based on integrated circuits 1978 Mar p 58-64 [3002] trans-Atlantic coaxial 1955 Aug. p 47	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58–63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109–119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperature measurement, oxygen isotopes, foraminifera, abyssal sediments, paleontology, glaciation, climatic change, measurement of ancient temperatures 1958 Feb p 54–63 temperature of Earth, climate, air pollution, atmospheric circulation, carbon dioxide 'window', particulates, ozone, human activity and climatic change 1971 Jan p 32–42 [894] temperature range, heat, life, heat and life 1954 Sept p 64–68 temperature regulation, 'cold-blooded' animals, ectothermy, metabolism, heterothermy, insect flight, sphinx moths, Mandura sexta warm-up mechanisms 1972 June p 70–77 [1252] temperature standard, cesium clock, length standard, mass standard, time standard, interferometry, measurement 1968 June p 50–62 temple of Apollo, Greek civilization, underwater archeology
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft navigation, spacecraft 1966 Mar p 42-52 Mars, space exploration, computer enhancement, television camera, computer graphics, Mariner IV photographs, Martian topography 1966 Apr p 54-68 animal migration, polar bears, satellite, Arctic, satellite tracking of migratory animals 1968 Feb p 108-116 [1102] moon, lunar surface, space exploration, high-resolution photography, Lunar Orbiter space missions 1968 May p 58-78 Martiner 6, Mars, Martiner 7, orbital motion, polar cap, television camera, cratering, surface pictures and map of Mars 1970 May p 26-41 signal reinforcement by artificial satellites, ghost effect 1961 Jan p 88 telephone, electronic telephone, solid-state electronics, integrated circuits, telephone based on integrated circuits 1978 Mar p 58-64 [3002] trans-Atlantic coaxial 1955 Aug. p 47 transpacific cable 1964 Apr p 64	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58-63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109-119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperatures materials 1954 Sept p 98-106 temperature measurement, oxygen isotopes, foraminifera, abyssal sediments, paleontology, glaciation, climatic change, measurement of ancient temperatures 1958 Feb p 54-63 temperature of Earth, climate, air pollution, atmospheric circulation, carbon dioxide 'window', particulates, ozone, human activity and climatic change 1971 Jan p 32-42 [894] temperature range, heat, life, heat and life 1954 Sept p 64-68 temperature regulation, 'cold-blooded' animals, ectothermy, metabolism, heterothermy, insect flight, sphinx moths, Mandura sexta warm-up mechanisms 1972 June p 70-77 [1252] temperature standard, cesium clock, length standard, mass standard, time standard, interferometry, measurement 1968 June p 50-62 temple of Apollo, Greek civilization, underwater archeology 1974 Oct p 110-118 temporal relations, biological clock, time perception, temperature-time
forecasting gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52–61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70–84 ammal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78–86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft navigation, spacecraft 1966 Mar p 42–52 Mars, space exploration, computer enhancement, television camera, computer graphics, Mariner IV photographs, Martian topography 1966 Apr p 54–68 animal migration, polar bears, satellite, Arctic, satellite tracking of migratory animals 1968 Feb p 108–116 [1102] moon, lunar surface, space exploration, high-resolution photography, Lunar Orbiter space missions 1968 May p 58–78 Mariner 6, Mars, Mariner 7, orbital motion, polar cap, television camera, cratering, surface pictures and map of Mars 1970 May p 26–41 signal reinforcement by artificial satellites, ghost effect 1961 Jan p 88 telephone, electronic telephone, solid-state electronics, integrated circuits, telephone based on integrated circuits 1978 Mar p 58–64 [3002] trans-Atlantic coaxial 1955 Aug. p 47 transpacific cable 1964 Apr p 64 optical telephone, system tested 1976 Dec p 53 telephone 'cable', wave guide	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58–63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109–119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperatures materials 1954 Sept p 98–106 temperature measurement, oxygen isotopes, foraminifera, abyssal sediments, paleontology, glaciation, climatic change, measurement of ancient temperatures 1958 Feb p 54–63 temperature of Earth, climate, air pollution, atmospheric circulation, carbon dioxide 'window', particulates, ozone, human activity and climatic change 1971 Jan p 32–42 [894] temperature range, heat, life, heat and life 1954 Sept p 64–68 temperature regulation, 'cold-blooded' animals, ectothermy, metabolism, heterothermy, insect flight, sphinx moths, Mandura sexta warm-up mechanisms 1972 June p 70–77 [1252] temperature standard, cesium clock, length standard, mass standard, time standard, interferometry, measurement 1968 June p 50–62 temple of Apollo, Greek civilization, underwater archeology 1974 Oct p 110–118 temporal relations, biological clock, time perception, temperature-time interrelation, kappa movement effect 1964 June p 1064 June
forecasting gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft navigation, spacecraft 1966 Mar p 42-52 Mars, space exploration, computer enhancement, television camera, computer graphics, Mariner IV photographs, Martian topography 1966 Apr p 54-68 animal migration, polar bears, satellite, Arctic, satellite tracking of migratory animals 1968 Feb p 108-116 [1102] moon, lunar surface, space exploration, high-resolution photography, Lunar Orbiter space missions 1968 May p 58-78 Mariner 6, Mars, Mariner 7, orbital motion, polar cap, television camera, cratering, surface pictures and map of Mars 1970 May p 26-41 signal reinforcement by artificial satellites, ghost effect 1961 Jan p 88 telephone, electronic telephone, solid-state electronics, integrated circuits, telephone based on integrated circuits 1978 Mar p 58-64 [3002] trans-Atlantic coaxial 1955 Aug. p 47 transpacific cable 1964 Apr p 64 optical telephone, system tested 1976 Dec p 53 telephone vaciles, wave guide 1955 Apr p 47 telephone switching, electronic switching, electromechanical switching	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58–63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109–119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperatures materials 1954 Sept p 98–106 temperature measurement, oxygen isotopes, foraminifera, abyssal sediments, paleontology, glaciation, climatic change, measurement of ancient temperatures 1958 Feb p 54–63 temperature of Earth, climate, air pollution, atmospheric circulation, carbon dioxide 'window', particulates, ozone, human activity and climatic change 1971 Jan p 32–42 [894] temperature range, heat, life, heat and life 1954 Sept p 64–68 temperature regulation, 'cold-blooded' animals, ectothermy, metabolism, heterothermy, insect flight, sphinx moths, Mandura sexta warm-up mechanisms 1972 June p 70–77 [1252] temperature standard, cesium clock, length standard, mass standard, time standard, interferometry, measurement 1968 June p 50–62 temple of Apollo, Greek civilization, underwater archeology 1974 Oct p 110–118 temporal relations, biological clock, time perception, temperature-time interrelation, kappa movement effect 1964 Nov p 116, 124 tendon organ, muscle control, muscle spindles peschops use separative.
gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft navigation, spacecraft 1966 Mar p 42-52 Mars, space exploration, computer enhancement, television camera, computer graphics, Mariner IV photographs, Martian topography 1966 Apr p 54-68 animal migration, polar bears, satellite, Arctic, satellite tracking of migratory animals 1968 Feb p 108-116 [1102] moon, lunar surface, space exploration, high-resolution photography, Lunar Orbiter space missions 1968 May p 58-78 Mariner 6, Mars, Mariner 7, orbital motion, polar cap, television camera, cratering, surface pictures and map of Mars 1970 May p 26-41 signal reinforcement by artificial satellites, ghost effect 1961 Jan p 88 telephone, electronic telephone, solid-state electronics, integrated circuits, telephone based on integrated circuits 1978 Mar p 58-64 [3002] trans-Atlantic coaxial 1955 Aug. p 47 transpacific cable 1964 Apr p 64 optical telephone, system tested 1976 Dec p 53 telephone vaciles, wave guide 1955 Apr p 47 telephone switching, electronic switching, electromechanical switching, markers, electronic replaces electromechanical switching,	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58–63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109–119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperatures materials 1954 Sept p 98–106 temperature measurement, oxygen isotopes, foraminifera, abyssal sediments, paleontology, glaciation, climatic change, measurement of ancient temperatures 1958 Feb p 54–63 temperature of Earth, climate, air pollution, atmospheric circulation, carbon dioxide 'window', particulates, ozone, human activity and climatic change 1971 Jan p 32–42 [894] temperature range, heat, life, heat and life 1954 Sept p 64–68 temperature regulation, 'cold-blooded' animals, ectothermy, metabolism, heterothermy, insect flight, sphinx moths, Mandura sexta warm-up mechanisms 1972 June p 70–77 [1252] temperature standard, cesium clock, length standard, mass standard, time standard, interferometry, measurement 1968 June p 50–62 temple of Apollo, Greek civilization, underwater archeology 1974 Oct p 110–118 temporal relations, biological clock, time perception, temperature-time interrelation, kappa movement effect 1964 Nov p 116, 124 tendon organ, muscle control, muscle spindles, psychophysics, sensory feedback, servomechanisms, stretch reflex 1972 May p. 30–37 [1249]
forecasting gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52–61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70–84 ammal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78–86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft navigation, spacecraft 1966 Mar p 42–52 Mars, space exploration, computer enhancement, television camera, computer graphics, Mariner IV photographs, Martian topography 1966 Apr p 54–68 animal migration, polar bears, satellite, Arctic, satellite tracking of migratory animals 1968 Feb p 108–116 [1102] moon, lunar surface, space exploration, high-resolution photography, Lunar Orbiter space missions 1968 May p 58–78 Mariner 6, Mars, Mariner 7, orbital motion, polar cap, television camera, cratering, surface pictures and map of Mars 1970 May p 26–41 signal reinforcement by artificial satellites, ghost effect 1961 Jan p 88 telephone, electronic telephone, solid-state electronics, integrated circuits, telephone based on integrated circuits 1978 Mar p 58–64 [3002] trans-Atlantic coaxial 1955 Aug. p 47 transpacific cable 1964 Apr p 64 optical telephone, system tested 1976 Dec p 53 telephone 'cable', wave guide	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58–63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109–119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperatures materials 1954 Sept p 98–106 temperature measurement, oxygen isotopes, foraminifera, abyssal sediments, paleontology, glaciation, climatic change, measurement of ancient temperatures 1958 Feb p 54–63 temperature of Earth, climate, air pollution, atmospheric circulation, carbon dioxide 'window', particulates, ozone, human activity and climatic change 1971 Jan p 32–42 [894] temperature range, heat, life, heat and life 1954 Sept p 64–68 temperature regulation, 'cold-blooded' animals, ectothermy, metabolism, heterothermy, insect flight, sphinx moths, Mandura sexta warm-up mechanisms 1972 June p 70–77 [1252] temperature standard, cesium clock, length standard, mass standard, time standard, interferometry, measurement 1968 June p 50–62 temple of Apollo, Greek civilization, underwater archeology 1974 Oct p 110–118 temporal relations, biological clock, time perception, temperature-time interrelation, kappa movement effect 1964 Nov p 116, 124 tendon organ, muscle control, muscle spindles, psychophysics, sensory feedback, serv omechanisms, stretch reflex 1972 May p. 30–37 [1249] tendons, aging, collagen, hological age.
gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft navigation, spacecraft 1966 Mar p 42-52 Mars, space exploration, computer enhancement, television camera, computer graphics, Mariner IV photographs, Martian topography 1966 Apr p 54-68 animal migration, polar bears, satellite, Arctic, satellite tracking of migratory animals 1968 Feb p 108-116 [1102] moon, lunar surface, space exploration, high-resolution photography, Lunar Orbiter space missions 1968 May p 58-78 Mariner 6, Mars, Mariner 7, orbital motion, polar cap, television camera, cratering, surface pictures and map of Mars 1970 May p 26-41 signal reinforcement by artificial satellites, ghost effect 1961 Jan p 88 telephone, electronic telephone, solid-state electronics, integrated circuits, telephone based on integrated circuits 1978 Mar p 58-64 [3002] trans-Atlantic coaxial 1955 Aug. p 47 transpacific cable 1964 Apr p 64 optical telephone, system tested 1976 Dec p 53 telephone vaciles, wave guide 1955 Apr p 47 telephone switching, electronic switching, electromechanical switching, markers, electronic replaces electromechanical switching,	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58–63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109–119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperatures materials 1954 Sept p 98–106 temperature measurement, oxygen isotopes, foraminifera, abyssal sediments, paleontology, glaciation, climatic change, measurement of ancient temperatures 1958 Feb p 54–63 temperature of Earth, climate, air pollution, atmospheric circulation, carbon dioxide 'window', particulates, ozone, human activity and climatic change 1971 Jan p 32–42 [894] temperature range, heat, life, heat and life 1954 Sept p 64–68 temperature regulation, 'cold-blooded' animals, ectothermy, metabolism, heterothermy, insect flight, sphinx moths, Mandura sexta warm-up mechanisms 1972 June p 70–77 [1252] temperature standard, cesium clock, length standard, mass standard, time standard, interferometry, measurement 1968 June p 50–62 temple of Apollo, Greek civilization, underwater archeology 1974 Oct p 110–118 temporal relations, biological clock, time perception, temperature-time interrelation, kappa movement effect 1964 Nov p 116, 124 tendon organ, muscle control, muscle spindles, psychophysics, sensory feedback, sen omechanisms, stretch reflex 1972 May p. 30–37 [1249] tendons, aging, collagen, biological age 1963 Apr p 104–114 [155] tensile strength, cavitation, droplet-levitation technique, liquids, negative-
gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft navigation, spacecraft 1966 Mar p 42-52 Mars, space exploration, computer enhancement, television camera, computer graphics, Mariner IV photographs, Martian topography 1966 Apr p 54-68 animal migration, polar bears, satellite, Arctic, satellite tracking of migratory animals 1968 Feb p 108-116 [1102] moon, lunar surface, space exploration, high-resolution photography, Lunar Orbiter space missions 1968 May p 58-78 Mariner 6, Mars, Mariner 7, orbital motion, polar cap, television camera, cratering, surface pictures and map of Mars 1970 May p 26-41 signal reinforcement by artificial satellites, ghost effect 1961 Jan p 88 telephone, electronic telephone, solid-state electronics, integrated circuits, telephone based on integrated circuits 1978 Mar p 58-64 [3002] trans-Atlantic coaxial 1955 Aug. p 47 transpacific cable 1964 Apr p 64 optical telephone, system tested 1976 Dec p 53 telephone vaciles, wave guide 1955 Apr p 47 telephone switching, electronic switching, electromechanical switching, markers, electronic replaces electromechanical switching,	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58–63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109–119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperatures materials 1954 Sept p 98–106 temperature measurement, oxygen isotopes, foraminifera, abyssal sediments, paleontology, glaciation, climatic change, measurement of ancient temperatures 1958 Feb p 54–63 temperature of Earth, climate, air pollution, atmospheric circulation, carbon dioxide 'window', particulates, ozone, human activity and climatic change 1971 Jan p 32–42 [894] temperature range, heat, life, heat and life 1954 Sept p 64–68 temperature regulation, 'cold-blooded' animals, ectothermy, metabolism, heterothermy, insect flight, sphinx moths, Mandura sexta warm-up mechanisms 1972 June p 70–77 [1252] temperature standard, cesium clock, length standard, mass standard, time standard, interferometry, measurement 1968 June p 50–62 temple of Apollo, Greek civilization, underwater archeology 1974 Oct p 110–118 temporal relations, biological clock, time perception, temperature-time interrelation, kappa movement effect 1964 Nov p 116, 124 tendon organ, muscle control, muscle spindles, psychophysics, sensory feedback, serv omechanisms, stretch reflex 1972 May p. 30–37 [1249] tendons, aging, collagen, hological age.

commerce, invention, patent-law reform

Tasmanian devil, aborigine, stone tools, Palcolithic man, dingo, Australian aborigine, antiquity of man in Australia	Chinese industry, economic development, progress of People's
1966 Mar n. 9.1 02 (62	Republic of China in computer electronics, instrumentation and
rasmanians, cultural anthropology, racial discrimination, gangerela	Control technologies 1977 Dec. p. 11.17
Yumbri, Yamana, vanishing primitive cultures 1957 May p 39-4 taste, chemical senses, olfaction, chemoreceptor	Bruegel the Elder, Renaissance technology, glimpses of practical knowledge at work 400 years ago 1978 Mar p 134-140 [3003]
tuste, element series, offaction, chemoreceptor	implications of 'automation' 1057 May n KK
silkworm, olfaction, chemical senses, insect chemoreception,	see also medical technology, agricultural technology and the like
comparative physiology 1958 Apr p 97 10	technology assessment, color television, picture elements, line structure,
taste buds, hearing, vision, sensory organs, ommutidis, neurorgentor	rota seaming rate, competing color television systems weighed
cells, cytology, how cells receive stimuli 1961 Sept p. 222–238 [99] taste receptors, sensory perception, Pacinian corpuscle, touch, olfactory	, re
receptors, mechanoreceptors, pain receptors, biological transducers	catastrophe 1962 Aug n 29–35 [1100]
1960 Aug n 98_108 170	ir transport, science policy, automobile transportation, air pollution, noise pollution, technology assessment institutions proposed
blowlly, chemoreceptor 1961 May p. 135 14	1970 Feb p 13-21 [332]
tau particle, leptons, heavy leptons, elementary particles, small light- particle family gains new member 1978 Mar p 50-57 [398	decision theory, energy economics, power production, tort law,
tawny owl, animal behavior, nocturnal animals, predator-prey	
relationship 1955 Oct. p. 88–98	electromagnetic spectrum, irradiation standards, microwave diodes, microwave radiation, risk estimation 1972 Feb p 13-21
taxation, housing, land use, population density, shantytowns, government regulation, urban planning, cities, control of land use	civil defense, arms race, fallout, limited nuclear warfare, flexible-
1965 Sept p 150–160	response strategy, limited nuclear war 1976 Nov p 27-37
air pollution, cities, water supply, sewage disposal, smog, water	energy resources, fuel imports, liquid natural gas, risk estimation, tankers, LNG 1977 Apr p 22-29
pollution, Los Angeles, New York, metabolism of cities	Congressional report 1966 Dec p 57
on sulfur in fuel 1965 Sept p 178–190	U S institutions urged 1969 Oct p 46
on sultur in fuel 1971 Mar p 48 taxonomy, botany, set theory, computer applications, zoology, numerical	technology and law 1971 Feb p 45 legislation establishes agency 1972 May p 48
taxonomy, computer classification of living things	tanker operation 1975 Nov p 58
1966 Dec p 106-116 [1059]	coal technology, coal-slurry pipelines 1978 Mar p 70
new microcrustacean 1955 Mar p 54 Tay-Sachs disease, amniocentesis, enzyme deficiency, genetic disease,	technology history, rocket engine, reaction propulsion, regenerative
prenatal genetic diagnosis, hemophilia, Down's syndrome,	motor, liquid fuel, status of the technology on eve of space age 1949 May p 30-39
chromosomal anomalies 1971 Nov p 34–42 [1234]	friction, Leonardo, Coulomb, sliding surfaces, molecular cohesion,
enzyme deficiency, fat metabolism, genetic disease, amniocentesis, lipids, lipid-storage diseases, 10 lipid-storage diseases	'coppering' 1951 Feb p 54-58
1973 Aug p 88–97	steam engine, mine drainage, Watt, pumps, Industrial Revolution, Newcomen engine, origins of steam engine 1964 Jan p 98-107
Taylor column, Jupiter, Great Red Spot, planetary atmosphere, rotation	bearing friction gears Leonardo, Codex Madrid I
period, hydrodynamic explanation vs raft hypothesis	1971 Feb p 100-110
1968 Feb p 74–82 teacher expectations, educational performance, social deprivation,	automobile design, automobile racing, Paris-Bordeaux race of 1895 1972 May p 102-111
experiment in self-fulfilling prophecy for disadvantaged children	bicycle technology, economic development 1973 Mar p 81-91
1968 Apr p 19-23 [514]	coal technology, Industrial Revolution, iron smelting, blast furnace, Newcomen engine 1974 Aug p 92-97
pupils performance 1976 Nov p 54 teaching machine, operant conditioning, inductive reasoning, rhythm,	barge transport, canals, transportation, in U.S. 1976 July p. 116-124
education, self-teaching by small, rigorous steps	fossil fuel coal technology, Industrial Revolution, 16th c energy crisis,
1961 Nov p 90–102	wood-fuel shortage 1977 Nov p 140–151 [391] electric chair, Edison (DC) vs Westinghouse (AC) 1973 Apr p 45
computer technology, education, programmed instruction, individualized teaching 1966 Sept p 206-220 [533]	technology transfer, economic development, Industrial Revolution,
tear gas, bacteria, chemical weapons, biological weapons, Vietnam war,	entroduction to single-tonic issue on technology and economic
arms race, CS gas, virus disease, rickettsiae, herbicide, chemical-	development 1963 Sept p 52-61 economic development, agricultural technology, human nutrition, food
biological warfare 1970 May p 15-25 [1176] ears, lacrimal gland, hypothalamus, nerve impulse, reflex, psychogenic	production nutritional self sufficiency in economic development
and continuous tears 1964 Oct p 78-86	1963 Sept p 72-80 [1133]
Teays river, fossil river, Kanawha river 1952 June p 74–80	economic development, industrialization, mineral resources, metal consumption, natural resources and technological substitution
echnetium, rust, corrosion, oxidation, studies in corrosion 1956 May p 35-39	1963 Sept p 128-136
in the Sun 1951 Sept p 54	industrial technology, Nigeria, economic development, tribal politics,
echnical assistance, developing countries, economic development,	economic development of former colonial region 1963 Sept p 168-184
foreign aid, technology transfer, developing countries, human	economic development, industrialization, population control,
nonulation 1974 Sept p 172–182	agricultural production, food production, economic planning, India, economic development by democratic planning
echnological innovation, science history, windmills, pumps, blast furnace, bellows, medieval technology, medieval uses of the air	1963 Sept p 189-206
1970 Aug p 92–100 [330]	economic development, industrialization, economic planning market process versus planning in economic development
electronic circuitry, integrated circuits, microelectronics, silicon 'chips',	1963 Sept p 235–244
introduction to single-topic issue on microelectronics 1977 Sept p 62–69 [374]	foreign aid, developing countries, technical assistance, human
hyplogical unamployment, racial discrimination, U.S. Black	population 1974 Sept p 172-182 green revolution, India, food and agriculture, monsoons, irrigation,
1907 Sept p 102	fertilizers, rice, agronomy, wheat, hybrid crop plants
echnology, Earth crust, Mohorovicic discontinuity, Mohole, Earth mantle, objectives of Mohole Project 1959 Apr p 41–49 mantle, objectives of Mohole Project 1959 Apr p 41–49	1976 Sept p 154-163 developing countries, 'green revolution', food and agriculture,
. I seemanice intil-Ollfoll allaivals, labor force, o	1976 Scot p 196-203
impact of technological change, 1947-1938, input-output	tectoric processes, mountain formation, Earth mantie, conviction
commerce, invention, patent-law reform 1967 June p 19-27	currents, the 'blister hypothesis' 1949 June p 16-21 moon, cratering, meteorites, origin of lunar craters 1949 July p 20-24

perpetual motion, Maxwell's demon, second law of thermodynamics	sand dune ecology, succulent plants, behavioral adaptation, symbiosis,
1967 Nov p 103-110 [317] friction, perpetual motion machines, entropy 1968 Jan p 114-122	adaptation, adaptive mechanism for life in hot acid environment 1959 July p 91-99
energy-information interaction, entropy in communication, power,	comparative psychology, desert adaptation, kidney function, salt-water
information flow, information theory 1971 Sept p 179–188 [670]	balance, man camel comparison 1959 Dec p 140-151 [1096]
hermoelectricity, semiconductor, Seebeck effect, Peltier effect	homeostasis, hypothalamus, human physiology, human body
1958 Nov p 31–37	thermostat 1961 Jan p 134-147 [129] behavioral adaptation, ground squirrels, Mojave desert, animal
sound energy, heat conduction, cryogenics, phonon, quantum mechanics of heat conduction 1962 Dec p 92–104 [288]	behavior, kidney function, desert adaptation, desert mammals'
heat-to-electricity technology 1958 Nov p 58	adaptations to heat and aridity 1961 Nov p 107–116
bimetallic thermocouple 1959 Jan p 64	dermatoglyphics, skin, hair, surface area, skin glands, structure and
thermography, medical diagnosis, tumor, arthritis, skin temperature,	function of human skin 1965 Feb p 56-66 [1003]
circulatory disorders 1967 Feb p 94-102	adipose tissue, hibernation, brown fat, homeostasis, metabolism, cold
thermomagnetic cooling, crystallography, magnetothermoelectricity, semimetal, solid-state refrigeration 1964 June p 70–82	adaptation, neonatal physiology, heat production in newborn animals, including man 1965 Aug p 62-65 [1018]
semimetal, solid-state refrigeration 1964 June p 70-82 thermomagnetism, Ettingshausen effect, Hall effect, Nernst effect, Righi-	convection currents, plants, solar radiation, thermal radiation,
Leduc effect, galvanomagnetism, science history, industrial	transpiration, energy transfer, heat transfer in plant leaves
technology, technological applications of 19th c discoveries	1965 Dec p 76-84 [1029]
1961 Dec p 124-136	circulatory system, cold adaptation, fur, metabolism, insulation
thermomechanical processing, materials technology, metalliding,	1966 Jan p 94-101 [1032] antelope, desert adaptation, water drinking, evaporation, eland and
superplasticity, microduplex structure, grain structure, metals that can be formed like plastics 1969 Mar p 28-35	oryx, survival without drinking 1969 Jan p 88–95
thermonuclear energy, celestial energy, cosmological 'hangups', energy	heat exchange, mackerel shark, rete mirabile, comparative physiology,
cycle, power, radiation energy, entropy per unit energy, gravitational	tuna, warm-bodied fishes 1973 Feb p 36-44 [1266]
energy, stellar evolution 1971 Sept p 50-59 [662]	thermostat, control systems, feedback, water clock, windmills, automatic
thermonuclear reaction, solar system, Sun, cosmology, dust cloud	control, flyball governor, origins of feedback control
hypothesis, gravity, light pressure, gravitational collapse, genesis of solar system 1948 May p 35-45	1970 Oct p 110-118 thun-film optical devices, interferometry, fluorescence, wave motion, light
Sun, carbon cycle, sunspots, solar spectrum, nearest star	waves, monomolecular films, fatty acids 1970 Mar p 108–119
1948 Nov p 26-39	integrated circuits, laser light manipulation, light propagation in thin
proton-proton interaction, carbon cycle, stellar energy	films, optical circuits, photons instead of electrons in circuits
1950 Jan p 42–45	1974 Apr p 28–35
hydrogen bomb, arms race, the Hydrogen Bomb – first of four articles published at the time the U S government determined to proceed	thinking, learning, comparative psychology, rhesus monkeys, 'learning to think' 1949 Aug p 36-39 [415]
with its development, production, perfection and deployment	thioctic acid, fungi, mushrooms, mushroom poisoning, toxins, Amanita
1950 Mar p 11–15	phalloides 1975 Mar p 90-101
heat, stellar interiors, hydrogen bomb, solar corona, proton-proton	thirst, diabetes insipidus, salt excretion, electrolyte balance,
interaction, helium reaction, ultrahigh temperatures	thermoregulation, urine, kidney, physiological psychology,
1954 Sept p 144-154 nuclear power, 'atoms for peace', fission reactor, fusion reactor,	osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan p 70-76
CERN, first of a four-part report on the International Conference	Thomas Aquinas, concordance by computer 1957 Oct p 64
on the Peaceful Uses of Atomic Energy, Geneva, August 1945	Thompson, growth, form, science history, life and work of D'Arcy
1955 Oct p 27–33	Thompson 1952 Aug p 60–66
element abundance, stellar evolution, universe, isotopes, 'synthetic' elements, particle accelerator, experimental astrophysics	thorax, gas exchange, lung, pulmonary ventilation, breathing, alveoli, human physiology, vital capacity, mechanics and physiology of
1956 Sept p 82-91	breathing, anatomy of lung 1966 Feb p 56-68 [1034]
fusion reactor, nuclear power, magnetohydrodynamics, plasma	thorium, as breeder-reactor fuel 1977 May n 57
containment, pinch effect, thermonuclear energy for domestic power	thorium cycle, fission reactor, breeder reactor, nuclear power, energy
1957 Dec p 73-84 [236] magnetic field, plasma instability, fusion reactor, magnetic bottle,	economics, uranium cycle, breeder reactor development
anomalous diffusion, nuclear power, leakage of plasma	1960 Jan p 82-94 breeder reactor, nuclear power, fast neutron reactor, uranium cycle,
1967 July p 76–88	liquid-metal reactor, fission reactor, energy demand
cosmic radiation, solar radiation, neutrino, solar neutrino detector,	1970 Nov p 13_21 (339)
neutrino detection experiment and predictions 1969 July p 28-37 fusion reactor, laser implosion, nuclear power, nuclear power, plasma	three-cottages problem, topology, inner-tube eversion. Mobius band
confinement 1974 June p 24-37	Klein bottle, trefoil knot, Koenigsberg bridges, four-color-map
thermonuclear weapons, see atomic weapons, hydrogen bomb	problem 1950 Jan p 18-24 three-dimensional image, integral (lenslet) photography
thermoplastic polymers, polyethylene, polymers, catalytic polymerization,	1968 Sept p 01
properties, production, economics of first 1,000 million-pound plastic 1957 Sept. p. 139–152	unree-dimensional movies, Polaroid and persistence 1951 July 29
plastic 1957 Sept p 139-152 amorphous polymers, polymer microstructure, random-coil model,	thrombin, blood clotting, hemagglutination, fibrinogen, molecular
semicrystalline polymers, synthetic polymers 1975 Dec. p. 96-106	biology, fibrin, role of thrombin in converting fibrinogen into fibrin
thermoregulation, hibernation, metabolic rate, body temperature, animal	thrombus, blood clotting, Dicumarol, anticoagulant therapy
behavior 1950 Dec p 18-21 hummingbird, metabolism, body temperature, hibernation, surface-to-	1951 Mar n. 19 31
volume ratio 1953 Jan p 69–72	arteries, atherosclerosis, coronary disease, medicine, monoclonal
shrews, body temperature, metabolism, surface-to-volume ratio	hypothesis, plaque formation 1977 Feb p 74-85 [1351] thunder, acoustic pulses, air pressure, lightning 1975 July p 80-90
1954 Aug n 66-70	sound frequency 200 cycles per second
diabetes insipidus, thirst, salt excretion, electrolyte balance, urine, kidney, physiological psychology, osmoreceptor theory of thirst,	lightning, classifying bolts by sound
Cannon'dry mouth' theory 1956 Jan n. 7076	mandercroud, againing, ionization, physics of the lightning bolt
fever, leukocyte, homeostasis, hypothalamus, etiology of fever	thunderstorms, thermal cells, origin and course 1949 Feb p 22-27 1950 June p 48-50
1957 June p. 62. 69	atmospheric ionization, electric field. Wilson hymothesis
behavioral adaptation, 'cold blooded' animals, pigmentation, lizard, repule, behavioral thermoregulation 1959 Apr p 105-120	thanderstorms replement Earth's charge 1953 Apr n 22 27
170 d 14th 4 cert	Weather, wind, jet stream squall lines law also t

gy, Jan p 70-76 57 Oct p 64 'Arcy Aug p 60–66 g, alveoli, logy of 56-68 [1034] 77 May p 57 , energy Jan p 82~94 um cycle, 13-21 [339] us band, or-map Jan p 18-24 58 Sept p 91 51 July p 28 cular n into fibrin Mar p 60-66 Mar p 18-21 clonal 74-85 [1351] July p 80-90 68 Feb p 54 75 Jan p 49 olt Feb p 22-27 une p 48-50 tmosphere, 1953 Apr p 32-37 weather, wind, jet stream, squall lines, low-altitude jet streams 1961 Aug. p 120-131

tensile-stress hypothesis, continental drift, plate tectonics, sea-floor	to the second of
spreading, ocean ridges, convection currents, Earth mantle	texture agents, flavoring, food additives, food coloning, food
1960 Nov. n. 192 11	preservatives, safety of additives 1972 Mar p 15-21
tent, building construction, architecture, primitive are hitecture, chimate	texture discrimination, pattern recognition, visual perception, computer graphics, stereoscopic images, depth perception
rgioo, teepee, yuri, sod nut, adobe house, hogan, stilt house	1065 Pal = 20 40 (210)
1960 Dec p 134-14	pattern recognition, figure-ground perception, visual perception,
teosinte, corn, genetics, tripsacum, pod corn, popcorn, hybrid cells, New	perceptual limitations 1975 Apr n 34_43 15631
World archeology, plant genetic experiment and archeological finds	Thailand, Hoabinhian culture, Neolithic archeology, agricultural
point to pool corn as wild ancester of maise 1950 July p. 20-24 [26 Teotihuacan, Amerindian prehistory, Middle America, Mexico, New	revolution, Spirit Cave site 1972 Apr p. 34-41 [675]
World archeology, pre-Columbian metropolis 1967 June p. 38-49	thalidomide, Phocomelia, pharmacology, technology assessment, U.S.
world archeology, pre-Columbian metropolis 1967 June p 38-48 teratogenesis, mutation, genetic disease, studied for clues to genetic	PDA. in thalidomide catastrophe 1962 Aug. p 29-35 [1100]
controls 1950 June p. 16–19	F D A. regulations 1962 Sept. p 98
cleft palate, congenital anomalies, fetal injury, embryonic development,	
1057 Oct. n. 109-116	1,501,1,22, p 111 121
congenital anomalies, purpura, virus disease, vaccine, pregnancy.	theoretical chemistry, SHAB principle 1965 Aug p 46 theoretical physics, atom, Pault, exclusion principle, antimatter, quantum
congenital rubella, rubella 1966 luly p. 30, 37	mechanics, structure of atoms and nuclei 1959 July p 74-86 [264]
teratoma, cancer, multipotential cells, tumor, gene expression, plant cell,	symmetry schemes proliferating 1965 May p 50
inhibitions 1965 Nov. p. 75–83 [1024]	therapeutic community, group therapy, emotional illness, role-channeling
Teredo, shipworm, cellulose digestion, natural history	1971 Mar p 34-42 [534]
1961 Feb p 132-142 "Terman sample", scientists, sociability, social psychology, scientists and	
other people' compared on basis of 'Terman' sample of intellectually	ichthyosaurs, evolution, origin of mammals 1949 Mar p 40-43
gifted persons under three-decade longitudinal study	thermal cells, thunderstorms, origin and course 1950 June p 48-50
1955 Jan p. 25–29 [437]	aerodynamics, bird flight, airfoil, soaring 1952 Apr p 24-29 soaring, wind velocity, air currents, aerodynamics, ornithology, bird
terminal velocity, free fall, Galileo's experiments, gravity, acceleration of	flight, flight of soaring birds 1962 Apr p 130-140
gravity 1975 Mar v. 102–111	bird flight, gliding birds, soaring, vultures, lift phenomena
termite, social insect, cell analogy, behavioral adaptation, insect behavior	1973 Dec p 102-109
1953 May p 74-78	thermal conductivity, heat conduction, phonon, thermal waves, materials
Africa, entomology, insect behavior, air conditioning, airconditioned	technology, thermal properties of materials 1967 Sept p 180-188
termite nests 1961 July p. 138–145	boundary-phase hypothesis, superdense water, water II,
terramycin, new antibiotic 1950 July p 29 terrestrial magnetism, see, geomagnetism	polymerization, polywater, surface tension, evidence for water II argued 1970 Nov p 52-71
terrestrial planets, dust storms, Mars, cratering, tectonic processes,	argued 1970 Nov p 32-71 thermal neutrons, neutron radiography, fission reactor, nondestructus
mountain formation, erosion, hydrology, solar system	testing, neutrons as inspection tool 1962 Nov p 107-119 [287]
1975 Sept p 106-117	thermal pollution, nuclear power, industrial cooling, water pollution,
terrestrial radiation, wind, solar radiation, energy cycle, biosphere,	aquatic life, cooling towers, waste heat 1969 Mar p 18-27 [1135]
albedo, atmospheric circulation, climate, ocean circulation, carbon	calefaction, Connecticut River, fission reactor, industrial cooling.
dioxide 'window', Earth energy cycle 1970 Sept. p 54-63 [1189]	nuclear nower fishenes ecology fish costs
biosphere, energy cycle, photosynthesis, respiration, power, radiation	1970 May p 42-52 [1177]
energy, solar radiation 1971 Sept p 88–100 [664]	energy demand, Industrial Revolution, biosphere, energy technology,
territorial behavior, comparative psychology, animal behavior, prairie	fossil fuel cycle, carbon dioxide, industrial emissions, modification of natural cycles by man 1970 Sept p 174-190 [1197]
dogs, social behavior, innate behavior, learning behavior, field observation of prairie dog communities 1959 Oct p 128-140	thermal pressure, gravity, stellar evolution, space-time continuum,
animal behavior, population control, reproduction, homeostatic	gravitational collarse, singularity, gravitational radius, black note
population controls 1964 Aug p 68–74 [192]	1967 NOV P 88-30
aggression, rats, animal behavior, social behavior, natural history,	thermal radiation, convection currents, plants, thermoregulation, solar
Rattus rattus, Rattus norvegicus 1967 Jan p 78-85	radiation, transpiration, energy transfer, heat transfer in plant feaves 1965 Dec p 76-84 [1029]
communication, pheromones, rabbits, scent glands, pecking order,	thermal updraft, tornadoes, meteorology, radar tracking, weather
territorial marking by rabbit 1968 May p 116–126 [1108]	forecasting 1958 May p 31-37
tertiary structure, protein structure, protein synthesis, amino-acid sequence, peptide bond, hydrogen bonds, nature, diversity and	thormal wayes beat conduction phonon materials technology, thermal
function of proteins 1950 June p 32-41 [10]	conductivity, thermal properties of materials 1967 Sept p 180-188
tessellation, mathematics, geometry, topology, quinary system, decimal	heat, diffusion, solid state physics, second sound, cryogenics, wave
system, knots, primitive mathematics 1948 Dec. p. 44-49	propagation, phonon, helium, thermal waves in solid helium 1970 May p 92-101
tonology, shape, polygons, polyhedra, space-filling 1954 Jan p 58-64	thermionic emission, electronics, electron tubes, amplifiers,
test scores, intellectual resources of US, college graduates, doctorates	communication technology, rectifiers, electron optics, cathode-ray
1951 Sept p 42-46 testosterone, animal behavior, sex differences, hypothalamus,	tube communication power state of the technology
physiological psychology, sex hormones, pituitary hormones, sex	1950 Oct p 30-39
differences in rat brain, effect of testosterone	thermionic tube, rectification, radio, diode, Fleming, electron tube,
1966 Apr p 84~90 [498]	history of science, England, Edison, lamps, Deforest 1969 Mar p 104-112
sex hormone and behavior 1956 Oct p 71	thermocline, limnology, pond life, dissolved oxygen, plankton.
tetanus, bacterial toxin, botulism, paralysis, nerve impulse, inhibitory	hypotympion, oxidation-reduction balance in depths of a pond
inpulse, synapse, motor neuron, Clostridium tetani, Clostridium 1968 Apr p. 69-77	1951 Oct p 68-72
Dorumum G. Black Sea Mediterranean Sea sea level, geological history of	thermodynamics, communication, information theory, entropy
	heat pump, Carnot cycle, principles and applications of heat pump
totranstrole ring, chlorophyll, hemoglobin, cytochrome, respiration,	1951 May p 54-59
enzymes, tetrapyrrole virtuosity enzymes, tetrapyrrole virtuosity tetrapyrrole virtuosity enzymes, tetrapyrrole virtuosity tetrapyrrole ting, chiotophysic, tetrapyrrole ting, chiotophysic, tetrapyrrole virtuosity tetrapyrrole ting, chiotophysic, tetrapy	information theory, statistics, noise, redundancy, digital storage media.
tetrodotoxin, animal toxins, nerve conduction block, sautoxin, post-	analogue storage media, information compression, automatic
puffer fish, California newt	control, information 1952 Sept p 132-148 heat, quantum mechanics, entropy, equation of state, energy, black
Tewa Indians, Amerindian, Hopf Indians, 1957 June p 126-136	Ladinadanum temperature, What is heat? 1904 Sept. ti 38-03
Indians textile fibers, artificial fibers, natural fibers, spinning technology, yarn textile fibers, artificial fibers, natural fibers, spinning technology, yarn 1972 Dec p 46-56	synthetic diamonds, high pressure, carbon phases, states of matter
1972 Dec 10 40-30	1955 Nov p 42-46

tissue-typing, cell membrane, immune response, organ transplant, tissue grafts, self-marker hypothesis 1972 June p 28–37 [1251] titanium, ilmenite, metallurgy, properties and applications of titanium	topology, mathematics, geometry, quinary system, decimal system, tessellation, knots, primitive mathematics 1948 Dec. p 44-49 inner-tube eversion, Mobius band, Klein bottle, trefoil knot, Koenigsberg bridges, four-color-map problem, three-cottages
toad, animal behavior, escape response, neurophysiology, visual perception, visually guided behavior 1974 Mar p 34-42 [1293]	problem 1950 Jan p 18-24 Euler, Koenigsberg bridges, essay by Leonard Euler on the
tobacco, carcinogenesis, cigarette smoking, human physiology, lung	Koenigsberg bridges 1953 July p 66–71 shape, polygons, polyhedra, tessellation, space-filling
cancer, coronary disease, effects of smoking 1962 July p 39-51 tobacco mosaic virus, virology, mutation, amino-acid sequence	1954 Jan p 58-64
1955 July p 74–78 [59] virus, protein 'overcoat', nucleic acid 'core', dissociation and	mathematics, hexaflexagons, flexagon, flexigation, delight and depth of mathematics 1956 Dec p 162-166
reconstitution of infective particles 1956 June p 42-47	geometry, mathematics, non-Euclidian geometry, conic sections,
adenoviruses, virology, X-ray diffraction, poliomyelitis virus, polyoma	history and current uses of geometry 1964 Sept p 60-69 fixed point theorems, mathematics, surface deformation, contraction
virus, herpes virus, influenza virus, vaccinia virus, bacteriophage, structure of viruses 1963 Jan p 48-56	1966 Jan p 105–110
genetic code, RNA nucleotides, protein synthesis, amino-acid	mathematics, sphere, differential topology, torus, everted sphere proof
sequence, mutation, relation of RNA mutations to amino acid	1966 May p 112–120
changes 1964 Oct p 46–54 [193]	catastrophe theory, discontinuous phenomena, mathematical model
springs full blown? 1952 Nov p 44 TMV protein analyzed 1961 Jan p 79	1976 Apr p 65-83 toposcope display, electroencephalography, brain waves, alpha rhythms,
TMV protein analyzed 1961 Jan p 79 Tokomak, nuclear power, fusion reactor, plasma confinement, magnetic	medical diagnosis, Fourier analysis, automata theory
bottle 1972 July p 65–75	1954 June p 54-63
laser measurements 1969 Dec p. 51	tornadoes, radio observatory, Green Bank observatory, U.S. National
systems for fusion power 1975 Mar p 48	Radio Observatory 1956 Oct p 56-64
tomato harvester, mechanical harvesting, cotton picker, agricultural	meteorology, radar tracking, thermal updraft, weather forecasting 1958 May p 31-37
technology, hay cuber, cherry picker, grain combine 1967 Aug p 50-59	outbreak in U S 1975 June p 49
tombs, Scythian culture, Siberia, refrigerated tombs, archeology, Altai	tornadoes on radar, from start to finish 1953 Aug p 42
Mountains, cloth, leather and wood artifacts preserved by	tort law, decision theory, energy economics, power production,
refingeration 1965 May p 100–109	technology assessment, economic planning market process
tomography, computer algorithms, computer-assisted imaging, image reconstruction, computer graphics, medical care, CAT scan	1971 Sept p 191–200 [671] torus, mathematics, topology, sphere, differential topology, everted
1975 Oct p 56–68	sphere proof 1966 May p 112–120
tone ladder, musical scale, Pythagorean doctrine, music and mathematics,	touch, sensory perception, Pacinian corpuscle, olfactory receptors, taste
harmonic proportions, Kepler, vibrating string 1967 Dec p 92-103	receptors, mechanoreceptors, pain receptors, biological transducers
tones, Chinese language, Chinese writing, computer translation, Mandarin Chinese, Chinese dialects 1973 Feb p 50-60	1960 Aug p 98–108 [70] learning, sensory perception, vision, visual perception dominates touch
Mandarın Chinese, Chinese dialects 1973 Feb p 50-60 Tonga Trench, Pacific Ocean, earth crust, Acapulco trench, Cedros	1967 May p 96–104 [507]
Trough, ocean floor 1955 Nov p 36-41 [814]	
tonsils, adenoids, myriads of viruses 1954 Nov p 50	geotropism, phototropism 1955 Feb p 100–106
tool assemblages, stone tools, multivariate analysis, factor analysis, computer analysis, Paleolithic archeology, Bordes method, stone	touch, sensory perception, conditioned behavior, learning, long-term memory, short-term memory, lobotomy, octopus, correlation of
tools as fossils of behavior 1969 Apr p 70–84 [643]	brain structure and function in octopus 1965 Mar. p 42–50 [1006]
tool inventories, Solutrean culture, Upper Paleolithic hunting peoples,	Tower of Babel, Elamite culture, ziggurat, religion, Biblical archeology,
stone tools, France, 21,000 years ago 1964 Aug p 86-94	
tool-using, primate behavior, chimpanzee, social behavior, comparative psychology, observation of chimpanzees in the wild	towing tank tests, marine engineering, yacht design, hull design, sail design
1962 May p 128~138 [463]	
toolmakers, human evolution, evolution of behavior 1953 Dec p 65-72	status of new medical technology 1949 Aug p 26-35
human evolution, Olduvai Gorge, man-apes, hand axes, stone tools	diphtheria toxin, diphtheria toxoid, diphtheria antitoxin, cytochrome
1954 Jan p 66-71 man-apes, Olduvai Gorge, human evolution, cultural evolution, role of	antagonist 1952 Oct p 32–36 toxicology, antibiotics staphylococcus septicemia, antibiotic resistance,
tool-making in biological evolution of man, introduction to single-	oxidative phosphorylation, cause of death from staphylococcal
topic issue 1960 Sept p 62-75 [601]	infection 1968 Feb in 84_94
hand, human evolution, hominid, evolution of the human hand 1962 Dec p 56-62 [140]	toxins, acetylcholine, acetylcholinesterase, nerve gases, nerve poisons,
hominid, Olduvai Gorge, human evolution, foodsharing, evolution of	citric-acid cycle, alkaloids, lethal mechanisms at cellular level 1959 Nov. p. 76-84
behavior, evidence for protohuman behavior in two-million-year-old	bacterial infection, endotoxins, exotoxins, bacterial toxin, effects of
Sites 1978 Apr p 90–108 [706] Australopithecus prometheus 1955 Aug. p 50	endotoxins 1964 Mar n 36_45
Australopithecus prometheus 1955 Aug. p 50 bag carriers 1970 Jan p 52	y personally a manta phanoides though
human evolution, bones found near Olduvzi Gorge 1976 Oct p 57	to voplasmosis, parasitism, intracellular parasite infectious disease
tools, surgery, scalpels 1951 Nov p 62-66	encephalitis, insect vectors 1953 Feb p 86-92
agricultural revolution, Neolithic archeology, slash-burn agriculture, cultural evolution, Stone Age forestry and agronomy	trace elements, iron, manganese, zinc, copper, magnesium, iodine, human
1956 Mar p 36-41	nutrition 1953 Jan p 22-25 cobalt, desert ecology, land reclamation, vitamin B12 synthesis,
Polynesian culture, cultural evolution, language, settlement of South	agricultural technology, reclamation of infertile Austrialian land
Sea Islands, origin of Polynesians 1986 Aug p 58-77 tooth enamel, caries, dentistry, bacteriology, causes of tooth decay	1050 Inn p 07 106
1957 Dec. p. 109~116	nucroanalysis, neutron activation, radionuclides, decay properties
(opographic microscope, microscopy 1954 Aug p. 54-50	
topography, ocean floor, Aleutian Trench, seamounts, fathogram sonar,	110111 003101311 111105
topological isomer, catenane, chemical topology, or che molecules	dates chemistry, tritium, cosmic radiation, lithium, nuclear reactor,
molecular structure, ring molecules, linking and knotting of ring	tracer experiments, photographs, white a shipped in 1954 Apr p 38–40
molecules 1962 Nov p 94-102 [286	tracer experiments, photosynthesis, chlorophyll, carbon dioxide, water
	1948 Aug p 24–35

thymine dimer, DNA replication, ultraviolet radiation, mutation rate,	DIFIN CHARMAN CNE
radiation damage, repair of DNA 1067 Fab = 26	parity, symmetry, CPT mirror, mirror images 1965 Dec p 28-36 [30]]
thymus, antibody production, immunology, lymphocytes, DNA, autoimmune disease, thymus role in producing antibodies	antigravity, CPT symmetry, antimatter, probability, philosophy of
1962 Nov p. 50-57 113	Science 1967 Ian p 98–108
antibodies, lymphatic system, immune system, lymphocytes, thymus	Conservation proton spin appearments in time an and
antibodies, bursa, cell differentiation, humoral immunity, B-cells, I-	1969 Oct p 88-101
cells, inimune system, lymphocytes 107.4 May 5 5 77 1170.	arrow of time, entropy, information theory, hierarchy of simetures
thyroid, gotter, metabolism control, thyroxin, pituitary gland, role of	fitte reversal invariance K mason deservation 1975 Bec p 50-07
digital in governing melabolism 1960 Mar n. 110-12	
calcutonin, metabolism, calcium metabolism, bone, human physiology, hormone, recognition and characterization of calcitonin	time-sharing, man-machine interface, computer technology, multipe
1970 Oct p. 42-50	terminals, multiple users 1966 Sept p 128-140
gotter, hypothyroidism, todine deficiency, epidemiology, todized salt	1061 Mar n 91/106
1971 June p 92-101 [1223 thyroid hormone, tadpole, frog, amphibian metamorphosis, chemistry of	time standard, cesium clock, length standard, mass standard, temperature
amphibian metamorphosis 1963 Nov p 110–118 [170	standard, interferometry, measurement 1968 June p 30-62
thyroid-stimulating hormone, ACTH, hormone, sexual characteristics	time symmetry, see CPT symmetry tin, elements, living matter, essential elements, metallo-enzymes, fluorine,
growth, follicle-stimulating hormone, prolactin, androgens,	silicon, vanadium, list of elements essential to life lengthened to 24
estrogens, secondary sexual characteristics, human physiology, endocrine system, chemical integrators of the body	1972 July p 52-60
1957 Mar p 76-88 [1122]	Tiros, weather satellites, telemetry, atmospheric circulation, heat budget of Earth, air masses, videocameras, photographic weather maps,
hormone, hypothalamic hormone, luteinizing hormone, neurohumoral	weather forecasting 1961 July p 80-94
factors, pituitary control, TSH 1972 Nov. p 24-33 [1260] thyroidectomy, conditioned reflex, neurosis, operant conditioning,	
Pavlov, psychology, stress, emotional behavior, neurosis, conditioned	metabolism in human physiology 1959 Dec p 70-76 tissue culture, cancer, tissue grafts, medical diagnosis, cancer tissue grows
reflex is shown to be a neurosis 1954 Jan p 48-57 [4]8]	in heterologous graft 1948 Dec p 40-43
thyroxin, gotter, thyroid, metabolism control, pituitary gland, role of thyroid in governing metabolism 1960 Mar p. 119–129	plant tissue grafts, plant hormones, dedifferentiation of plant cells,
thyroid in governing metabolism 1960 Mar p 119-129 actinomyosin, ecdysone, cortisone, insulin, estrogens, gene activation,	plant growth requirements 1950 Mar p 48-51 poliomyelitis virus, rhesus embryo, serial passage, polio vaccine, tissue
RNA synthesis, aldosterone, growth hormone, ACTH, mechanism of	culture of virus opens way to vaccine 1952 Nov p 26-29
hormone action 1965 June p 36–45 [1013]	(0.65
amphibian, metamorphosis, frog, pituitary gland, hypothalamus, neurosecretory system, hormone, chemistry of amphibian	clone, HeLa cancer cells, cell culture, somatic cells, single human cells
metamorphosis 1966 May p 76-88 [1042]	1957 Aug p 91–100 [23]
Tibetan plateau, mountain formation, continental drift, earthquake zones,	enteroviruses, poliomyelitis virus, Coxsackie virus, echo viruses,
Gobi Desert, Himalaya formation, India-Eurasia collision, plate tectonics, sea-floor spreading 1977 Apr p 30-41	epidemiology, benign and infectious intestinal viruses 1959 Feb p 88-97
ticklishness, explored in controlled experiment 1971 July p 45	embryonic development, tissue differentiation, dissociated cells,
tidal effects, stellar evolution, gravitation effects, contact binaries, binary	reassembly of dissociated tissue cells common cold, virus disease, 20 strains cultured 1959 May p 132-144 1960 Dec p 88-102
stars, stellar fission 1968 June p 34-40 tidal energy, energy consumption, energy resources, fission fuels, power,	meioris mitoris plant cell differentiation clone, generation of Whole
fossil fuel, fusion fuels, geothermal energy, solar energy	organism from tissue cell (carrot) 1963 Oct p 107-115
1971 Sept p 60-70 [663] tidal rhythms, biological clock, crabs, diatoms, marine algae, sand	cell differentiation, embryonic development, pancreas, mesoderm, endoderm 1969 Mar p 36-44 [1136]
hoppers, tidal-zone organisms, integration of biological and sidereal	cancer, SV40 virus, gene transformation, chromosome mapping
cycles 1975 Feb p 70–79 [1316]	somatic cells, hybrid cells, genetics of human cancer 1978 Feb p 117-125 [1381]
'tidal' waves, tsunamıs, earthquakes 1954 Aug p 60–64 Pacific Basin warning system 1960 Oct p 88	and using calls to grow 1956 Feb p 30
tidal-zone organisms, biological clock, crabs, diatoms, marine algae, sand	industrial technique
hoppers, tidal rhythms, integration of biological and sidereal cycles	tumor tissue, 'nude' mice in tumor tissue culture 1978 May p 66 see also plant tissue culture, cell culture
1975 Feb p 70-79 [1316] tides, day's length, Earth-Moon system, lunar orbit, moon	ticero differentiation, insect metamorphosis, nivenile hormone, cellular
1972 Apr p 42–52	specialization in insect development 1959 Feb p 100–110 [63] embryonic development, tissue culture, dissociated cells, reassembly of
tilapia, fisheries, aquaculture, proteins, food, pond culture 1963 May p 143-152	dissociated tissue cells 1909 May p 132-11.
tilth, soil conditioners, humus, polyacrylates, polyvinylites, cellulose	cell aggregation, cell 'recognition', cytology, embryonic development,
1953 Aug p 36–38	ticene grafts, cancer, ussue culture, medical diagnosis, cancer tissue grows
time, measurement, Brownian motion, velocity, uncertainty principle, Planck's constant, limits of measurement 1950 July p 48-51 [255]	in heterologous graft 1948 Dec. p. 40-45
Pythagorean theorem, special relativity, clock paradox	bacterial infection, blood proteins, gammaglobulin, antibodies, immunology, agammaglobulinemia, hereditary immunological
1963 Feb p 134-144 calendar, solar system, planetary motion, heliocentric theory, year,	deficiency 1957 July p 93-104
astronomy, Copernicus, astronomy, Copernicus, length of calendar	hamster, immune reaction, tolerance of grafts 1963 Jan p 118-127 [148]
year 1900 Oct p 85-70	cell membrane immune response, organ transplant, tissue-typing, self-
atomic standard	marker hypothesis 1972 June p 28-37 [1251] embryonic tissue 1958 Apr. p 52
	secured by histocompatibility gene 1960 Aug p 75
jumps, quantum electrodynamics, foundation of massi, fasti	and online graft rejection 1901 MdV P 70
technology Galileo's experiments, gravitational acceleration, music as time 1975 June p 98-104	treezing of living cells 1956 June p 105-114
measure	tissue specialization, embryonic development, cell differentiation,
time perception, biological clock, temporal relation 1964 Nov. p. 116, 124 interrelation, kappa movement effect 1964 Nov. p. 116, 124 interrelation, propagation reactions, probability against it in	11 1 constant tamphrish' chromosome, embryonic development.
time reversal, symmetry, reversible research 1056 Aug n 107-114	zygote, fertilization, ovum, clone, cytology, how cells specialize 1961 Sept. p. 124-140
macroscopic world	in in the property of the second of the seco

traumatic shock, shock, capillary bed, electrolyte bala	nce, cardiovascular	tritum in nature, rarest isotope	1950 Nov p 26
system, blood transfusion	1952 Dec p 62-68	tRNA: transfer ribonucleic acid tRNA, ribosome, protein synthesis, DNA, mR	NA nucleus chromosome
salt-water treatment	1950 Dec p 29 1970 Mar p 64	cytology, how cells make molecules	1961 Sept p 74-82 [92]
traveler's diarrhea, Escherichia coli alien strain traveling-wave accelerator, linear accelerator, electron		mRNA, genetic code, DNA, ribosome, prot	
internal drift-tube accelerator 1954	Oct p 40-44 [234]	elucidated, amino acid 'dictionary'	1963 Mar p 80-94 [153]
traveling-wave tube, microwaves, optical properties, M	faxwell's equations,	RNA, nucleic acid, nucleotide sequence, ala	nıne, enzyme cleavage,
klystron, magnetron, waveguides, communication	n, radar	fragment assembly, first nucleotide seque	
	1952 Aug p 43–51	amino acids, protein synthesis, formylmethi	1966 Feb p 30–39 [1033]
tree cloning, city trees, pollution effects, ailanthus, gu	976 Nov p 110–118	initiation of protein synthesis	1968 Jan p 36-42 [1092]
Norway maple tree farming, resource management, gene manipulation		gene transcription, protein synthesis, molec	
techniques, forestry, Southern pine, seed-orchard	d concept	of tRNA	1978 Jan p 52-62 [1377]
	1971 Nov p 94–103	nucleotide sequence for alanine tRNA	1965 May p 48
tree growth, insecticide	1952 May p 36	crystallographic RNA-structure study trophallaxis, insect behavior, social insect, arm	1969 Mar p 50
tree-ring dating, see dendrochronology tree structure, auxins, adaptation, trees, plant hormo	nes av-head model	psychology, reproduction, feedback, pher	
mechanical design of trees	1975 July p 92–102	philosophy of science, anthropomorphism	n 1948 June p 16–23
trees, aphids, sap circulation, phloem, xylem, use of a	aphids to measure	trophoblast, fetus as transplant, histocompata	bility, immune response,
forces in sap flow 1963 N	Mar p 132–142 [154]	immunological privilege, reproduction, n	
ecology, forest succession, leaf distribution 1975	May p 90–98 [1321]	tropical agriculture, animal husbandry, ecosys	1974 Apr p 36–46
auxins, adaptation, plant hormones, tree structure,	, ax-nead model, 1975 July p 92–102	agricultural system, power, New Guinea	iem, energy cycle,
mechanical design of trees trefoil knot, topology, inner-tube eversion, Mobius b			1971 Sept p 116-132 [666]
Koenigsberg bridges, four-color-map problem, t	hree-cottages	tropical climate, agricultural production, equa	torial rain forests,
problem	1950 Jan p 18–24	laterization, developing countries, lateriti	
trench faults, ocean floor, East Pacific Rise, subterra	nean heat flow,	turned flow coal foral flore Mississipping	1964 Nov p 96–102 [870]
earthquakes, convection currents	1961 Dec p 52-61	tropical flora, coal, fossil, flora, Mississippian period, Carboniferous period, deposition	
triage, medical care, medicine, physical incapacitation mortality rates, hospital care, ambulatory care,	health insurance.	tropical medicine, Anopheles mosquito, malar	
introduction to single-topic issue on medical car		epidemiology, W H O malaria eradicatio	
	1973 Sept p 22-33	tropical rain forest, Amazon, developing coun	
hospital care, medical care, in-patient care, out pa		economic planning, forest management, in power, the Amazon frontier	
technology, medical history Trassic period, continental drift, plate tectorics, sca	1973 Sept p 128–137	strangler trees, ecology, evolution	1948 May p 11–14 1954 Jan p 78–80
floor spreading, Earth crust, Pangaea, computer	r modeling,	economic development, industrialization, tr	
supercontinents, breakup of Pangaea traced		subsistence economy, urbanization, resou	
	70 Oct p 30-41 [892]	uneven national development	1963 Sept p 208-220
tribal cultures, hunting, herding, food gathering, agr		economic development, industrialization, si tropical rain forest, urbanization, resource	ibsistence economy,
aboriginal culture, India, 'living prehistory' in I	1967 Feb p 104-114	uneven national development	1963 Sept p 208–220
tribal politics, industrial technology, Nigeria, econor		rain-forest ecosystem, slash burn agricultur	
technology transfer, economic development of	former colonial	fungal hyphae	1973 Dec p 58-67 [1286]
	1963 Sept p 168–184	tropocollagen, collagen, proline, hydroxyproli	
tribes, 'national character', cultural anthropology trichinosis, in US garbage	1973 Dec p 56	connective tissue, nature and properties of	1961 May p 120–130
trickle irrigation, drip irrigation, irrigation, agriculti	ural technology	tropomyosin, ATP, actin, myosin, actinomyos	in, muscle contraction.
1977	Nov p 62–68 [1371]	troponin, calcium, microstructure of mus	cle filament and
Trident, arms race, missile submarines, SLBM, MI		biochemistry of contraction	1974 Feb p 58-71 [1290]
missile 19 triode, solid state physics, transistor, vacuum tube,	72 June p 15–27 [344]	actin, muscle contraction, muscle fibril, pro myosin, calicum in muscle	
germanium, diode, dawn of solid-state electron		troponin, ATP, actın, myosın, actınomyosın, r	1975 Nov p 36–45 [1329]
	1948 Sept p 52-55	tropomyosin, calcium, microstructure of	muscle filament and
Junction transistor, germanium crystal, 'doping'	1952 July p 28-32	biochemistry of contraction	1974 Feb n 58-71 (1290)
radio, De Forest, vacuum tube, Marconi, Flemin rectification, De Forest's 1906 contributions	g valve, diode, 1965 Mar p 92–100	actin, muscle contraction, muscle fibril, pro myosin, calicum in muscle	tein switch, tropomyosin,
triplet state, light-matter interaction, photochemist	ry, flash photolysis,	troposphere, communication technology, radi	1975 Nov p 36-45 [1329]
ultraviolet light, photolysis photoreduction, p	hotooxidation, dye	transmission, ionospheric and tropospher	ac scattering
Prinlete and I was a	1968 Sept p 158-170		1957 Jan p 46-51
triplets, amino acids, DNA, protein synthesis, gene molecular biology, RNA, anticodon, ribosome	tic code, mutation,	aerodynamics, air pollution, microclimate, i	nicrometeorology, fluid
hypothesis 196	66 Oct p 55-62 [1052]	dynamics, meteorology, turbulence, atmothe ground	
tripsacum, corn, genetics, teosinte, pod corn, popco	orn, hybrid cells, New	trout, stream ecology, mortality, population co	1964 Oct p 62–76 ontrol, moral keep the little
World archeology, plant genetic experiment at	nd archeological finds	ones and let the big ones go	1953 May n 81-86
point to pool corn as wild ancester of maise trisomy 21, epidemiology, stress, anoxia, pregnance	Down's syndrome	lamprey, jawless fish, pest control, Great La	
etiology of Down's syndrome	1952 Feb p 60-66	trumpet bell, musical instruments, physics of l	1955 Apr p 36-41
Down's syndrome, chromosomal anomalies, Kli	nefelter's syndrome,	pipe	1973 July n 24 25
genetic defect, meiosis, mitosis, gene transloca afflictions associated with abnormal chromosi	ition, nondisjunction,	trumpet pipe, musical instruments, physics of	brasses, horn flare, trumpet
10	161 Nov. p. 66-76 [150]	bell trumpeter swan, out of danger	1973 July p 24-35
Triticale, grain, proteins, plant protein, plant hybr	ids, agronomy	truss bridge, wind bracing, skyscrapers, constr	1969 Feb p 46
	1974 Aug n 72_80	Tower, cantilever, steel frame construction	n, curtain wall
tritium, cosmic radiation, lithium, nuclear reactor, chemistry	1954 Apr n 38_10		1074 E.L 03 105
fusion reactor, nuclear power, magnetic bottle, r	plasma confinement,	truth, grammar, logic, philosophy, sentence, n proof, antimony of the liar, proof and tru	ietalogic, mathematical
deuterium, magnetic pumping, stellerator	1958 Oct p 28-35	proof and tru	th 1969 June p 63-77

bacteriophage, genetics, reproduction, DNA, p	rotein coat		
	1953 May p 36-2	integrated circuits, metal-oxide semiconduct	ors, microelectronics,
tracer isotopes, for mapping the pancreas	1056 Tuto - 4	in contract compa	1973 Aug. p 48-57
tracheal system, insect physiology, underwater br	eathing, insect breathir	or the state of th	emiconductors,
	1053 Eab - 20 1	microelectronics, semiconductor technolog	
tracheostomy, acute respiratory failure, intensive	care hing alveolve		1977 Sept p 70-81 [375]
conapse, emphysema, pathogenesis and treat	ment of acute	off the shelf	1952 June p 38
respiratory failure	1969 Nov n 22 2	in hearing aids	1903 Feb p 40
traclionia, eye disease, virus disease, vaccination, o	enidemiology		1953 June p 48
immunization	1964 Jan p 79-8	new 'surface barrier'	1954 Feb p 47
track detectors, streamer chamber, linear acceleration	tor nulsa agraestes		1955 July p 52
new particle detector	ior, pulse generator,	high-frequency oscillator	1955 Oct p 48
tracking station, artificial satellite, orbital motion,	1967 Oct p 38-4		1957 Sept p 110
exploration, Sputnik, first artificial Earth sate	satenite, space	transistor oscillator, in megacycle spectrum	1952 Aug p 38
suprotonom, oputing, mot artificial Earth Sale		transition boiling, boiling, hourds, heat transfer.	nuclear boiling, film
artificial catallity arbital marine and a	1957 Dec p 37-4	boiling	1954 June p 64-68
artificial satellite, orbital motion, interferometry astronomy, satellite tracking	, antennae, radio	transmission electron microscope, microscopy, so	canning electron
trade Obsidian trace alamanta Nantal and a de-	1958 Jan p 23-25	microscope, light microscope, three-demens	nonal pictures by
trade, obsidian, trace elements, Neolithic archeolog	gy, Neolithic trade	scanning electron microscope	1972 Jan p 54-69
pattens deduced from obsidian finds	1968 Mar p 38-46	transmission lines, electric power, superconductor	ors 1972 Apr p 84-91
Arabia, irrigation, Near East, frankincense, myri	th, Biblical archeology,	transmitter molecules, nerve conduction, symanse	reflex arc, motor
cultures of southern Arabia 19	969 Dec p 36-46 [653]	neuron, membrane potential, inhibitory imp	ulse, nerve excitation,
trade deficit, economic development, European eco	onomy, Economic	activity at the neural synapse 1	965 Jan p 56-66 [1001]
Commission for Europe, East-West trade, ind	ustrial reconstruction	transmitters, communication terminals, computer	r technology.
	1948 July p 9-15	communication technology, communication,	microwave relays.
trade wind clouds, climate, atmospheric circulation	, cumulus clouds,	receivers	1972 Sept p 130-140
ocean-atmosphere interface	1953 Nov p 31-35	transmutation, alchemy, philosopher's stone, scien	ace history
trademarks, information theory, painting, sculpture	e, architecture, visual	pratosopher o stone, some	1952 Oct p 72-76
communication, communication, language, vis	sual stimulus, visual	transparency, spectroscopy, materials technology,	color, photoelectric
signals 19°	72 Sept p 82-96 [548]	effect, laser, optical properties of materials	1967 Sept p 238-248
traffic, shantytowns, Calcutta, cities, urbanization,	caste, housing,	color fusion, color scission, perceptual transpare	
poverty, Calcutta, a city of the poor	1965 Sept p 90-102	transparency, optical illusion, visual perception	
queues, mathematics, operations research, compi	ster time sharing.]	974 Apr p 90-98 [559]
	1968 Aug p 96-103	transpiration, convection currents, plants, thermor	egulation, solar
traffic accidents, statistics	1976 Jan p 62	radiation, thermal radiation, energy transfer, l	neat transfer in plant
traffic patterns, railway, cities, commutation, mass t	transit, automobile.	leaves 196	55 Dec p 76-84 [1029]
transportation, Bay Area Rapid Transit system	as model for urban	water cycle, evaporation, runoff, agricultural sys	tem, ocean,
	1965 Sept p 162-174	precipitation, biosphere, photosynthesis 1970	Sept p 98-108 [1191]
traffic safety, causes of traffic accidents	1957 Aug p 58	transport mechanisms, plant nutrition, plant roots,	root pressure, son
traffic theory, mathematical model, vehicular traffic		minerals 197	3 May p 48-58 [1271]
transport, modeling auto flow patterns	1963 Dec p 35-43	transportation, iron ore, coal reserves, steel markets	changing geography
transusion hepatitis, antibodies, hepatitis A, hepatiti		of steel	1952 Jan p 44-33
Australian antigen (B), viral structure, viral disc	ease	railway, traffic patterns, cities, commutation, mas	ss transit, automobile,
	7 July p 44-52 [1365]	Ray Area Ranid Transit system as model for un	rban transportation
ranguilizers, psychoactive drugs, chlorpromazine, re			1965 Sept p 102-117
and the second s	1955 Oct p 80-86	wheeled vehicles, oxen, carts, wagons, Transcauca	isus. Mesopotamia,
barbiturates, hypnotics, sedatives, anesthesia, pha		origin of wheeled transport 5,000 years ago	1968 July p 02-70
our orientation, respiration, outlier, ou, amountoines, principal	1958 Jan p 60-64	electromagnetic flight linear induction motor, line	ear synchronous
clinical indications, patient tolerance	1957 Jan p 67	motor, 'magneplane' vehicle, magnetic levitation	n, superconductors
reduces stress syndrome	1957 Aug p 62		1973 Oct p 17-25
rans-Pacific contact, Olmec, Mexico-Shang, China	1975 May p 44	barge transport, canals, technology history, in U S	446 124
Franscaucasus, transportation, wheeled vehicles, oxe			1976 July p 110-124
Mesopotamia, origin of wheeled transport 5,000	years ago	transportation industry, airport, air traffic control, rai	dar
, , , , , , , , , , , , , , , , , , , ,	1968 July p 82-90		1960 Dec p 47-55
ranscendental meditation, blood pressure, human ph	ysiology, autonomic	transuranum elements, periodic table, 'synthetic' elem	nents, table of
nervous system, yoga, Zen Buddhism, physiolog		elements, stable isotopes, isotopes, first of a serie	s of articles,
	Feb p 84-90 [1242]	recounting the completion of the table of elemen	is (43 [techniculum
ransdetermination, cell culture, cell differentiation, la	arvae, fruit fly	61[promethium], 85[astatine] and 87[francium]) a	na the titst tive
1968 No	ov p 110-120 [1127]	transuranic elements (93[neptunium], 94[plutoniu	Apr p 38-47 [242]
ransfer ribonucleic acid, see tRNA		96[curium] and 97[berkelium]) 1950	Apr p 30-47 (****
ransferable drug resistance, bacteria, drug resistance,	mutation, DNA R-	californium, table of elements, einsteinium, fermium	L Synthene
factor, antibiotics, multiple resistance	1967 Dec p 19-27	elements, mendelevium, radioactive decay, period	Dec p 66-80 [243]
hacteria antibiotics	1966 Feb p 53	uranium fission, nuclear fission, fission products, 'sy	othetic' elements,
ransformation, see gene transformation, cell transfor	mation, energy	radium isotropy, science history discovery of fissi	ion
tenneformation and the like		radium isomopy, science instory discovery or inst	1958 Feb p 76-84
ransformation-induced plasticity, materials technology	7, steel, strength,	'synthetic' elements element 103 lawrencium high f	lux isotope
disatilitie	TANK TANK D 20-42	reactor heavy-ton linear accelerator periodic table	e at 103
ransistor, solid state physics, vacuum tube, electronics	1948 Sept p 52-55	}	1963 Apr p 68~18
t i i i i i i i i i i i i i i i i i i i	1740 Noby b am am	alpha decay isotopes, nuclear stability, beta decay, ra	idioactive decay.
junction transistor, vacuum tube, electronics, compu	1951 Aug p 13–17	'synthetic' elements, periodic table the 'superheavy	elements
		heyand 103	969 Apr p 36-6/
junction diode amplifiers, amplifiers, sound reprodu	59 June p 118-129	'synthetic' elements element 97	1950 Mar p 28
circuitry, noise	microelectronics,	'synthetic' elements, nobelium	1958 July p 49
integrated circuits, electronic components massay,	1965 Nov p 56-70	'synthetic' elements, element 103 trapped radiation, interplanetary space, Mars, Mariner 4,	1961 June p 84
silicon chips	emiconductors,	micrometeorites, atmosphere, solar wind, cosmic rac	hation, space
microelectronics, large-scale integrated circuits, lo	gic circuits		66 May p 62-72
microelectromes, and	1970 Feb p 22-31	exploration	

1959 Mar. p 100-113

Tycho's supernova, supernovae, Chinese starcharts, Kepler's supernova,	ultraviolet radiation, light, photoreactivation, visible light reactivates
'guest stars', the seven observed supernovae 1976 June p 100–107	organisms killed by ultraviolet 1951 May p 22–25
Tyndall spectra, light scattering, photometry, molecular size, aerosol,	interstellar matter, cosmic dust grains, hydrogen 1955 Nov p 72–80 microscopy, 'flying spot' microscope, ultra-microscopy of living cells
hydrosol, measurement 1953 Feb p 69–76 typhoons, hydrosols, measurement 1954 June p 32–37	1958 May p 38–43
typhoons, hurricanes, radar, meteorology 1954 June p 32–37 typhus, rickettsiae, chick-embryo culture, Rocky Mountain spotted fever	Sun, balloon astronomy 1959 May p 52–59
typhus, ficketisiae, cinck-emotyo culture, kocky Mountain spotted feter	telemetry, Sun, astronomy, rocket-borne instrumentation
Chaga's disease, public health, 'zoonoses', parasitism, trypanosomiasis,	1959 June p 52-59
malarıa, filarıasıs, leishmaniasıs, plague, yellow fever, epidemiology,	Sun, solar eclipse, ionosphere, solar flares, chromosphere, Earth-Sun
animal infection and human disease 1960 May p 161-170	chromosphere-ionosphere interaction 1962 Feb p 50–59
typography, computer-generated characters 1966 Jan p 51	atmospheric tides, ozone, Earth, ultraviolet-radiation hypothesis
tyrosinase, ceruloplasmin, hemocyanin, oxygen transport, enzymes,	1962 Dec p 48–55
copper deficiency, cytochrome oxidase, copper biochemistry,	DNA, mutation, effects of ultraviolet on weakest links in chain 1962 Dec p 135–144 [143]
Wilson's disease 1968 May p 102–114	Clouds of Magellan, galaxy, stellar evolution 1964 Jan p 32–41
	crystallography, laser, light refraction, nonlinear optics, light
7 T	interactions, photon 1964 Apr p 38–49
U	nebulae, Orion nebula, stellar evolution, hydrogen density, dating
_	interstellar bodies 1965 Feb p 90–101
Uganda, animal husbandry, Karimojong, cattle, subsistence herding	DNA replication, mutation rate, radiation damage, thymine dimer,
1969 Feb p 76–89	repair of DNA 1967 Feb p 36-43
Ukraine, glaciation, Ice Age hunters, mammoths, Mousterian	cancer, melanocytes, suntanning, epidermis, skin, vitamin D
assemblages 1974 June p 96–105 [685] ulcer, stress, psychosomatic illness, 'executive monkey' experiment	1968 July p 38–46 artificial satellite, ultraviolet astronomy, Sun, spectroheliograph
1958 Oct p 95-100	1969 June p 92–102
cryotherapy 1962 July p 74	air pollution, rickets, vitamin D, osteogenesis, calcium metabolism,
ultra-high pressure, artificial diamonds, lithosphere, coesite, borazon,	epidemiology, sunlight 1970 Dec p 76–91 [1207]
properties of matter under 2×10^6 p s i 1959 Nov p 61–67	ultraviolet sky, rocket operations 1959 Feb p 64
ultra-high speed rotation, ultracentrifuge, angular momentum, magnetic	umbilical cord, placenta, fetus, anatomy and physiology of the umbilical
flotation, molecular weight determination, 90 million r p s	cord 1952 July p 70–74
1961 Apr p 134–147 ultra-high vacuum, spectroscopy, vacuum, oil diffusion pump, sputter-ion	U.N.: United Nations U.N., arms control, role of U N in resumed negotiation of arms control
pump, cryogenic pump, mass, vacuum down to 10 12 mm of mercury	1950 Jan p 11–13
1962 Mar p 78–90	U.N. Atomic Energy Commission, disbands 1948 June p 25
ultra-microchemistry, plutonium, embryonic development, cytology,	U.N. technical agencies, human nutrition, population, food production,
chemistry, isolation of plutonium established a new research	FAO, 'the food problem' 1950 Aug p 11–15
technology 1954 Feb p 76–81	uncertainty principle, measurement, Brownian motion, time, velocity,
ultracentrifugation, density-gradient, separation techniques 1965 Aug p 70–76	Planck's constant, limits of measurement 1950 July p 48–51 [255]
ultracentrifuge, molecular weight, sedimentation, fractionation, oil drive,	games theory, decision theory, probability, pure strategy, card games illustrate theory 1951 Jan p 44-47
air drive, magnetic suspension, 900,000 g, 60 million r p m	philosophy of science, wave-particle duality 1958 Jan p 51–57 [212]
1951 June p 42–51	gravitation, wave-particle duality, relativity theory, quantum
angular momentum, ultra-high speed rotation, magnetic flotation,	mechanics, space-time continuum, P A M Dirac view of physics
molecular weight determination, 90 million r p s	1963 May p 45–53
1961 Apr p 134–147 ultradense matter, gravitational collapse, neutron stars, pulsar, stellar	'uncontrollable' expenditures, medical care, health statistics, medical-cost control, national health insurance, U S Federal expenditure on
evolution, solid stars, white dwarfs 1971 Feb p 24–31	medical care 1971 Apr p 17–25
ultrafast phenomena, Kerr gate, laser mode-locking, molecular motion,	undecidable questions, antinomy, paradox, mathematical logic, logic
quantum mechanics, Raman clock, picosecond molecular processes	barber paradox, Godel's proof, Grelling's paradox, Epimenides'
1973 June p 42–60	paradox, Zeno's paradox, paradox and foundations of logic
ultrasonic signal, sonar, bat sonar, animal navigation, bat navigation demonstrated in laboratory 1950 Aug p 52-55	Godel's proof motel-see with 1962 Apr p 84–96
ultrasonic transducer, piezoelectricity, quartz, crystal structure, nature	Godel's proof, metalogic, mathematical logic 1971 Mar p 50-60 algorithms, computer science, Koenigsberg bridges, polynomial-time
and uses of piezoelectricity 1949 Dec p 46-51	problems, exponential-time problems, efficiency of algorithms
ultrasonic waves, sound waves, communication technology, crystal	1978 Jan n 96-109 (395)
surface waves, electronic equipment, Rayleigh waves, signal	underground nuclear explosions, atomic explosions, 'Plowshare', Rainier
processing 1972 Oct p 50–68	explosion, search for constructive use for nuclear explosions
ultrasonics, interferometry, emulsification, nondestructive testing, sonar 1954 May p 54-63	1958 Dec p 29–35
kılomegacycle waves, sound waves, acoustic waves at optical	arms control, seismology, atomic bomb test, how to detect underground weapons tests and distinguish from small earthquakes
wavelength 1963 June p 60–68	1962 June p 55–59
medical diagnosis, optics, echo-sounding, computer-assisted imaging,	earthquakes, atomic test ban, atomic bomb test, seismology, arms
sonar, imaging internal organs by ultrasound	control, detection and discrimination of underground atomic
1978 May p 98-112 [1389] ultrasound, sonar, bats, predator-prey relationship, moths, auditory	weapons tests 1966 July p 19–29
perception, moth sonar detection of bat ultrasound	arms control, atomic test ban, seismology, technology for verification of underground nuclear test ban 1972 Jan p. 13-23 (3.43)
1965 Apr p 94–102 [1009]	of underground nuclear test ban 1972 Jan p 13-23 [343] arms control, atomic test ban, 'fireball blackout', EMP effect, strategic
ultrastrong magnetic fields, high pressure technology, magnetism,	weapons 1972 Nov. p. 15, 22 (2.42)
explosive compression, implosion, flux compression	Earth core, earthquakes, seismic waves, fine structure of Earth's
1965 July p 64-73 ultraviolet astronomy, artificial satellite, ultraviolet radiation, Sun,	1973 Mar p 24–33 [906]
spectroheliograph 1969 June p. 92_102	suspension proposed in U.S. Congress 1072 A
ultraviolet sky	under ground transport, mass transit phenmatic propulsion, solling
ultraviolet light, light-matter interaction, photochemistry, flash	gravity propulsion, transport by 'pedulum' train 1965 Aug p 30-40 underwater archeology, Classical archeology, commerce, Roman empire,
photolysis, photolysis, triplet state, photoreduction, photoexidation, dye	1051 Mar. 00 404
1968 Sept p 158–170	Lake Amatitlan, Maya civilization, 500 B C Guatemala

```
'truth' drugs, psychoanalysis, psychoactive drugs, psychiatry, emotional
                                                                                    tunnel of Eupalinus, Samos, Greek civilization, Classical archeology,
       illness, chinical use of psychoactive drugs
                                                                                         water supply, feat of Classical engineering
                                                                                                                                        1964 June p 104-112
                                                  1960 Mar p. 145-154 [497]
                                                                                    tunneling, excavating machines, rock borers, earth-moving, surface
  trypanosomiasis, Chaga's disease, public health, 'zoonoses', parasitism,
                                                                                         mining, mining
       malaria, filariasis, leishmaniasis, plague, yellow fever, typhus,
                                                                                                                                         1967 Nov p 74-85
                                                                                      ground water, irrigation, aqueducts, Iran, underground system, 300
       epidemiology, animal infection and human disease
                                                                                         years old, still in use
                                                                                                                                         1968 Apr p 94-10)
                                                        1960 May p 161-170
                                                                                    turbidity currents, ocean floor, submarine canyons, continental shelf,
 trypsin, proteins, peptide bond, zymogen, proteolytic enzymes,
                                                                                         submarine avalanches and topography of ocean floor
      hydrolysis, enzymes, structure and function of protein-digesting
                                                                                                                                         1956 Aug p 36-41
       enzymes
                                                          1964 Dec p 68-79
                                                                                      sandstone, sand dune, granite, weathering, stratigraphy, sand ongin
    catalytic proteins, enzyme action, protein-cutting enzymes, proteolytic
                                                                                        and history from shape of grain
                                                                                                                                        1960 Apr p 94-110
      enzymes, serum proteins, chymotrypsin, elastase
                                                                                   turbine blade design, electric power generation, ship propulsion, steam
                                                    1974 July p 74-88 [1301]
                                                                                        turbines, construction of turbines, applications, history
    enzyme activity at low temperatures
                                                              1966 Dec p 65
                                                                                                                                       1969 Apr p 100-110
 tryptophan, brain function, carbohydrate, neurotransmitters, serotonin,
                                                                                   turbine bucket, heat, materials, temperature limits, ablation, rocket
      human nutrition, feedback
                                                   1974 Feb p 84-91 [1291]
                                                                                        nozzle, high temperatures materials
                                                                                                                                       1954 Sept p 98-106
 tryptophan-niacin relation, neurospora, mutation, natural selection, gene
                                                                                   turbulence, nebulae, galaxies, galactic clusters, hierarchy of turbulence in
      expression, Mendelian inheritance, genetic disease, one gene-one
                                                                                       space
                                                                                                                                        1952 June p 26-30
      enzyme hypothesis, selection for defect
                                                      1948 Sept p 30-39 [1]
                                                                                     boundary layer, airfoil, laminar flow, aerodynamics
 Tschudi engine, automobile engines, Wankel engine, rotary engine
                                                                                                                                        1954 Aug p 72-77
                                                         1969 Feb p 90-99
                                                                                     heat, propulsion, energy transformation, aerothermodynamics, laminar
 tsunamis, earthquakes, 'tidal' waves
                                                         1954 Aug p 60-64
                                                                                       flow, high temperatures propulsion
                                                                                                                                      1954 Sept p 120-131
    seiches, ocean waves, surf, breakers, generation and propagation of
                                                                                     fish, swimming, laminar flow, purpoises, how fishes and sea going
      ocean waves
                                                   1959 Aug p 74-84 [828]
                                                                                                                                 1957 Aug p 48-54 [1113]
                                                                                       mammals swim
 tsuzumi crystals, snow crystals, hexagonal habit, cloud physics, bullet
                                                                                     aerodynamics, air pollution, microclimate, micrometeorology, fluid
      clusters, variations on a theme
                                                       1973 Jan p 100-107
                                                                                       dynamics, troposphere, meteorology, atmospheric phenomena near
 tubercle bacillus, tuberculosis, mortality rates, economic development,
                                                                                                                                        1964 Oct p 62-76
                                                                                       the ground
      public health, science history, popularization of well-being, not
                                                                                    fluidization, petroleum cracking, particle bed, gas stream, food
      therapy, ends 'white plague'
                                                                                                                                       1968 July p 94-104
                                                         1949 Oct p 30-41
                                                                                       processing
   tuberculosis, bacteriology, biology of the germ
                                                     1955 June p 102-110
                                                                                    eddies, negative viscosity, wind, nonuniform flows, rotating systems,
 tuberculosis, tubercle bacillus, mortality rates, economic development,
                                                                                                                                        1970 July p 72-80
                                                                                       viscosity
      public health, science history, popularization of well-being, not
                                                                                  turgor movement, plant movement, nastic movement, geotropism,
      therapy, ends 'white plague'
                                                                                                                                     1955 Feb p 100-106
                                                         1949 Oct p 30-41
                                                                                      phototropism, touch orientation
   tubercle bacillus, bacteriology, biology of the germ
                                                                                  Turing machine, automata theory, von Neumann machine, brain
                                                                                                                                       1955 Apr p 58-67
                                                      1955 June p 102-110
                                                                                      circuitry, computer design
                                                                                    feedback, computer science, von Neumann machine, automata theory,
   isomazid, isotopes, streptomycin, para-aminosalicylic acid,
      pharmacology, tracing action of TB drugs
                                                      1956 Nov p 135-144
                                                                                      self-reproducing machine, 'artificial living plants'
                                                                                                                                     1956 Oct p 118-126
   successful chemotherapy
                                                            1952 Apr p 39
                                                                                   biological sciences, mathematics, self-reproducing machine, nerve
   chemotherapy established
                                                            1952 May p 40
                                                                                      impulse, predation, automata theory, mathematics in biology
   drugs, facilitate surgery
                                                           1954 Sept p 80
                                                                                                                                   1964 Sept p 148-164
   BCG vaccine
                                                            1956 May p 60
                                                                                   games theory, logic, computer theory, algorithms, problem solving
                                                           1948 Nov p 25
tuberculosis control, W H O in China
                                                                                                                                    1965 Nov p 98-106
tuberculosis test, no false negatives
                                                            1950 Apr p 36
                                                                                 Turkey, metal artifacts, metallurgy, copper, Neolithic archeology, village-
tuberculosis vaccine, funds for BCG
                                                           1948 June p 24
                                                                                     farming communities, man's first use of metals 7,500 B C
tubulin, cell motility, wound healing, cell tracks, embryonic development,
                                                                                                                                     1970 Mar p 50-56
     mitotic apparatus, cell motion made visible to naked eye
                                                                                turkeys, animal behavior, courtship display, pecking order, sexual
                                                 1978 Apr p 68-76 [1386]
                                                                                     behavior, lek behavior, Welder Wildlife Refuge
'tulipomania', horticulture, virology, benign virus infection
                                                                                                                                   1971 June p 112-118
                                                     1960 Aug p 138-144
                                                                                                                                        1977 Aug p 58
                                                                                Turkish tallies, writing precursors
tumor, cancer, multipotential cells, teratoma, gene expression, plant cell,
                                                                                Turner's syndrome, Barr body, sex differences, chromosome, genetic
                                                1965 Nov p 75-83 [1024]
     inhibitions
                                                                                    mosaic, cytology, Klinefelter's syndrome, chromosomal anomalies,
   medical diagnosis, thermography, arthritis, skin temperature,
                                                                                                                                1963 July p 54-62 [161]
                                                                                    sex differences in tissue cells
                                                      1967 Feb p 94-102
     circulatory disorders
                                                                               turtles, animal migration, animal navigation, telemetry, sexual behavior,
tumor inhibition, angiogenesis, avascular tumors, cancer, tumor
                                                                                    nesting, Chelonia mydas, green turtle, 1,400-mile journey
     vascularization, tumor angiogenesis factor (TAF)
                                                                                                                              1965 May p 78-86 [1010]
                                                1976 May p 58-73 [1339]
                                                                               'twiddling', bacteria, bacterial motility, flagella, rotation of flagella
tumor-specific antigens, antibodies, cancer, cell-surface antigens, cancer
                                                                                                                                    1975 Aug p 36-44
    immunology, immunopotentiators, immune response, leukemia,
                                                                               twins, identical twins, fraternal twins, ovulation estrin physiology of
                                                1977 May p 62-79 [1358]
     transplantation antigens
tumor tissue, tissue culture, 'nude' mice in tumor tissue culture
                                                                                    twinning
                                                                                 intelligence, race, whites, IQ, heredity, American Negro, heredity
                                                          1978 May p 88
                                                                                   population genetics, science policy, social psychology, environment,
tumor vascularization, angiogenesis, avascular tumors, cancer, tumor
                                                                                                                             1970 Oct p 19-29 [1199]
                                                                                   racial discrimination
    inhibition, tumor angiogenesis factor (TAF)
                                                                              two-phase materials, crystal structure, metals, whiskers, fiber-reinforced
                                                1976 May p 58-73 [1339]
                                                                                                                                   1965 Feb p 28-37
                                                                                   dislocations, matrix, composite materials
tumor-virus antigen, adenoviruses, cancer virus, SV40 virus, DNA virus,
                                                                                composite materials, materials technology, whiskers, fiber glass fiber-
    DNA recombination, gene transformation, virus etiology of cancer
                                                                                                                                1967 Sept p 160-176
                                                                                   reinforced composites, matrix, eutectics
                                                      1966 Mar p 34-41
                                                                              two-way channels, communication technology, network hierarchies,
tuna, heat exchange, mackerel shark, rete mirabile, thermoregulation,
                                                                                  communication, computer-assisted instruction, information retrieval
    comparative physiology, warm-bodied fishes
                                                                                   National Academy of Engineering study, 'Communications
                                               1973 Feb p 36-44 [1266]
                                                                                  Technology for Urban Improvement', 'wired city' concept
                                                      1969 Feb p 30-40
                                                                                                                               1972 Sept p 142-150
tunable laser, organic lasers
tundra, soil structure, chernozems, podzols, latozols, alluvial soils,
                                                                              Tycho Brahe, observatory, astronomy, scientific instrumentation,
    agronomy, ecology of soil, soil erosion, the soils of the world and
                                                                                  Stjerneborg, science history, 16th century Hven observatory
                                                      1950 July p 30-39
                                                                                                                               1961 Fcb p 118-128
tunnel junction, electric current, Josephson effects, superconductivity,
    their management
                                                                               Copernicus, planetary motion models, solar system, science history,
    microwave emission, quantum mechanics, confirmation and
```

1966 May p 30-39

applications of Josephson effects

Tycho's notes in de Revolutionibus

1973 Dec p 86-101

pwelling, Peru Current, anchovy, guano, seagulls, El Niño 1954 Mar p 66–71	slums, cities, housing, relocation, eminent domain, urban planning, US experience with Federal subsidy of urban renewal
Earth, ocean circulation, gyres, wind, the circulation of the oceans 1955 Sept p 96-104	tenement rehabilitation, central-shaft technique 1965 Sept p 194-204
food supply, fisheries, manne farming, sea-water nutrients, fishponds 1970 Dec p 14-21 [1205]	urban revolution, social evolution, social behavior, human evolution, cities, 1500 B C origin of cities 1960 Sept p 153–168 [606]
anchovy crisis, El Niño, fishing, Peru Current, Peruvian anchovy 1973 June p 22–29 [1273]	urban riots, ghetto, racial discrimination, unemployment, public opinion, social class, American Negro, 'riffraff theory' versus 'blocked-
Jr-Nammu, Sumer, law code, hieroglyphs 1953 Jan p 26–28	opportunity' theory 1968 Aug p 15–21 [638]
ranium, Oak Ridge separation plant 1969 May p 56	'pre-political' demonstrations in U S 1968 June p 42
supplies assessed 1976 June p 48	urban sociology, shantytowns, squatters, land use, housing, 'barriadas' of
ranium 233, from thorium 1968 Dec p 50	Lima, Peru 1967 Oct p 21–29
uranium 235, nuclear fission, heavy nuclei, liquid-drop model, neutron,	urban transport, mathematical model, vehicular traffic flow, traffic
shell model, fission fragments 1965 Aug p 49–59	theory, modeling auto flow patterns 1963 Dec p 35-43
gas-centrifuge research restricted 1967 June p 50	air pollution, smog, automobile emissions, ozone, air pollution control
separation by centrifuge, European plants 1969 May p 52	in Los Angeles 1964 Jan p 24-31 [618] cities, computer modeling, personal-transit systems, systems analysis,
uranium cycle, fission reactor, breeder reactor, nuclear power, energy	mass transit 1969 July p 19–27
economics, thorium cycle, breeder reactor development 1960 Jan p 82-94	Northeast Corridor ideas 1965 Apr p 56
breeder reactor, nuclear power, fast neutron reactor, thorium cycle,	urbanization, family size, U S census, U S population, reapportionment,
liquid-metal reactor, fission reactor, energy demand	U S census of 1950 1951 Apr p 15–17
1970 Nov p 13–21 [339]	US census, age-sex distribution, baby boom, family size, central city,
uranium deposits, fission products, natural reactor, nuclear fission, Oklo	suburbs, US census at 1960 1961 July p 39-45
phenomenon, Precambrian reactor 1976 July p 36-47	economic development, demographic transition, industrialization,
uranum enrichment, isotope separation, laser-excitation technique, light	population control, family planning, economic development and the
absorption, quantum mechanics 1977 Feb p 86–98 [354]	demographic transition 1963 Sept p 62–71 [645]
gas-centrifuge process 1973 Aug p 43	economic development, industrialization, tropical rain forest,
gas-centrifuge enrichment 1977 Aug p 52	subsistence economy, tropical rain forest, resource management,
uranium fission, nuclear fission, fission products, 'synthetic' elements,	Brazil, uneven national development 1963 Sept p 208–220
radium, isotropy, transuranium elements, science history, discovery	New World archeology, agricultural revolution, Mexican agriculture, corn, New World agricultural revolution 1964 Nov p 29–37 [625]
of fission 1958 Feb p 76–84	Industrial Revolution, cities, population growth, introduction to a
breeder reactor, fission reactor, energy demand, plutonium, 'third generation' breeder reactors 1967 May p 25–33	single-topic issue on cities 1965 Sept p 40–53 [659]
generation' breeder reactors 1967 May p 25-33 fission-track dating, geochronology, glass age, meteorite age, mineral	cities, Industrial Revolution, agricultural revolution, communication,
age, pottery age, radioactive decay 1976 Dec p 114–122	origin and evolution of cities 1965 Sept p 54-63
uranium ore, lignite beds, badlands of Dakotas 1954 Oct p 36-39	shantytowns, Calcutta, cities, caste, housing, poverty, traffic, Calcutta,
'atoms for peace', nuclear power, nuclear fuel, fuel-element fabrication,	a city of the poor 1965 Sept p 90-102
Geneva chemistry 1955 Oct p 34-37	of world population 1972 Oct p 47
chemical analysis, prospecting, chemical prospecting	urinary calculi, crystal structure, lithiasis, kidney calculi, X-ray
1957 July p 41–47	diffraction, bladder stones, gallstones 1968 Dec p 104-111
m U S S R. 1949 Mar p 24	urine, kıdney, counter-current exchange, nephron, glomerulus, osmosis,
new finds in France and Canada 1949 Apr p 25 in the Rockies 1950 Oct p 24	anatomy and physiology of the kidney 1953 Jan p 40–48 [37] diabetes insipidus, thirst, salt excretion, electrolyte balance,
processing plants 1951 May p 34	thermoregulation, kidney, physiological psychology, osmoreceptor
Belgian Congo 1954 Mar p 45	theory of thirst, Cannon 'dry mouth' theory 1956 Jan p 70-76
shortage foreseen 1974 Jan p 50	U.S.: United States of America
acceptable hazards 1976 June p 48	US agriculture, agricultural economics, food and agriculture, food
uranium-recovery plant, radiation-accident death 1965 June p 58	processing, 'agribusiness' 1976 Sept p 106–123
uranium resources, nuclear energy 1951 May p 17–21	U.S. Army, loyalty and security, McCarthy, Fort Monmouth, Scientists'
Uranus, Neptune, outer planets, Pluto, Saturn, solar system	Committee on Loyalty and Security, report on Signal Corps
1975 Sept p 130–140 planetary rings 1977 Aug p 57	Engineering Laboratory 1954 June p 29-31 U.S. census, urbanization, family size, U.S. population, reapportionment,
Uranus' fifth moon, 'Miranda', as in Shakespeare's Tempest	U S census of 1950 1951 Apr p 15–17
1949 Oct p 29	age-sex distribution, fertility, human resources, mortality rates,
Urartu, Biblical archeology, Mount Ararat, Altintepe, 800 B C culture at	population of US 1951 Sept in 28–35
Noah's landing-place 1967 Mar p 38–46	urbanization, age-sex distribution, baby boom, family size, central city,
urban archeology, Roman Britain, Winchester 1974 May p 32-43	suburbs, U S census at 1960 1961 July p 39-45
urban density, cities, form of cities 1954 Apr p 54-63	education, US population, labor force, age-sex distribution,
urban monkeys, rhesus monkeys, social behavior, learning, urban and forest monkeys in India 1969 July p 108–115 [523]	demographics, gross national product, more from the US census of
urban planning, housing, central city, suburbs, cities, metropolitan area,	
conurbation, evolution of the metropolis 1965 Sept p 64-74	U S population, population redistribution, human migration, suburbanization, U S census of 1970 1971 July p 17-25
land use, Stockholm, cities, land ownership, urban renewal, Stockholm	suburbanization, U.S. census of 1970 1971 July p 17-25 1970 Oct p 52
as a planned city 1965 Sept p 106-115	U.S. economy, economics, input-output analysis interindustry
Ciudad Guyana, cities, land ownership, economic geography, highway	transactions, 1958 U.S. Department of Commerce input-output table
engineering, a model city in Venezuela 1965 Sept p 122-132	1965 Apr. p. 25_35 (624)
housing, land use, population density, shantytowns, taxation, government regulation, cities, control of land use	energy cycle, industrial society, power, ecosystem, environmental
1965 Sept p 150–160	protection 1971 Sept. p. 134 144 (667)
urban renewal, slums, cities, housing, relocation, eminent domain, U.S.	employment, pluralistic economy, public sector, private-enterprise sector, productivity, not-for-profit sector 1976 Dec. p. 25–29
experience with Federal subsidy of urban renewal	employment levels, labor force, manpower policy, women in labor
1965 Sept. p. 194-204	TOTAL TOTAL TEATION VS. ION CHARLES 1977 No 42 Ct (2011)
central city, cities, highway engineering, mass transit, open space, diversity, 'paths' 1965 Sept. p. 209-219	U.S. metals industries, import dependent
urban renewal, land use, urban planning Stockholm cities land	U.S. politics, scientists for Johnson
ownership, Stockholm as a planned city 1965 Sept p 106–115	Il S. consus of 1050
1 11-113 Sept p 100-113	0 S census of 1950 1951 Apr p 15–17

shipbuilding, Byzantine shipping, Rhodian sea	law chinwrock of 17th		
century	1971 Aug. p. 22–3		vature of space, red shift,
Greek civilization, temple of Apollo	1974 Oct. p. 110-11	2 EdiaCiiC EVOIIIION eVolutionnes universe	lement formation, genesis
aqualungs for shiprwrecks	1961 Sept. p. 9	· ·	1954 Mar n 54 61
archaeologocial looting	1071 4 6	by out, anticisc, specifoscopy,	galaxies, recession
underwater breathing, insect physiology, tracheal	system, insect breathing	- The state of Costs and Costs	mology
	1057 Lab - 70 2	cosmology, cosmic background radiation, big	956 Sept. p. 170-182 [240]
underwater shelters, continental shelf exploitation	a saturation diving	radiowaves, isotropy, primeval fireball, heli	bang theory, low-energy
decompression, diving, oceanographic exploi	ration	lifeory and cosmic background radiation	1967 June p. 28–37
Internal company of the second	66 Mar. p. 24-33 [1036	cosmology, quasars, red shift	1971 May p. 54-69
unemployment, ghetto, racial discrimination, urba	in riots, public opinion,	cosmic background radiation, evolutionary un	iverse radio galaxies
social class, American Negro, 'riffraff theory' opportunity' theory	versus 'blocked-	oig bang' theory	1974 Aug. p. 26-33
suicide, suicides among the jobless	968 Aug. p. 15-21 [638]		, 'open' universe.
U.N.E.S.C.O.: United Nations Educational, Scien	1963 July p. 68	deuterium abundance, age of elements, aver	age density
Organization	inne and Cultural	nondestate to the	1976 Mar. p. 62-79
U.N.E.S.C.O., new field offices	1948 May p. 33	yardsticks revised again	1955 Jan. p. 44
budget reduction	1953 Jan. p. 30		of expansion
\$1.3 million for science	1953 Apr. p. 45		1959 Oct. p. 84 1975 Dec. p. 50
Evans director	1953 Sept. p. 73		1953 Mar. p. 48
U.S.S.R. returns	1954 June p. 50	university education. Nobel prizes education soc	iology, scientific careers,
'unexpected hanging', not a true paradox	1953 Apr. p. 54	sociology of the Nobel prizes	1967 Nov. p. 25-33
ungulates, evolution, horn, antler, osteogenesis, bo	ne, keratin, differences	influence of high school size on university educa-	ation 1961 May p. 82
between horns and antlers 1969	Apr. p. 114-122 [1139]	university research, N.S.F., science funding, funda	imental research,
unicorn, narwhal, how unicorn acquired narwhal's		science education	1948 June p. 7-11
unified field theory, gravity, electromagnetism, nuc	1951 Mar. p. 42-43	science funding, Office of Naval Research	1949 Feb. p. 11-15
Generalized Theory of Gravitation', a persona	ol account by Albert	A.E.C., atomic weapons, nuclear power, science	1949 July p. 30-43
Einstein	1950 Apr. p. 13-17	secrecy review of U.S. Federal funding by National Scie	
new Einstein publication	1950 Jan. p. 26	101104 of 0.5, I ederal fullding by National Scie	1958 May p. 52
Hlavaty's helping hand	1953 Sept. p. 78	pseudoscience, ESP, kirlian photography, astrolo	ogy at Iowa State
see also: field theory	- `		1978 Apr. p. /8
Union of the Soviet Socialist Republics, see: U.S.S.		university science, N.S.F., science funding, science	education, appraisal of
'unique stimulus' problem, canary, learning	1955 June p. 72–79	the new institution upon its legislation	1950 July p. 11~13
United Nations, see: U.N.	I O t sta	fundamental research, curiosity, science funding,	'mission-offented
United Nations Educational, Scientific, and Cultural U.N.E.S.C.O.	Organization, see:	funding agencies, N.S.F., introduction to a sing fundamental questions in science	1953 Sept. p. 47-51
United Nations Relief and Rehabilitation Administra	ation, see: UNRRA	NSF science funding fundamental research	1954 Mar. p. 29-33
United States of America, see: U.S.	2001, 500. 01.10141	N.S.F., science funding, science policy, U.S. Fede	ra) funding: basic and
universal constant, speed of light, measurement	1955 Aug. p. 62-67	applied science	1957 Nov. p. 45-75
universe, astronomy, philosophy of science, galactic		science funding, science policy, freedom of science	e, creativity, 1958 Sept. p. 170-178
motion, solar system, cosmology, introduction		conditions favoring advance in science N.S.F., 'mission-oriented' funding agencies, science	se funding
on the universe thermonuclear reaction, element abundance, stell	1956 Sept. p. 72–81	institutional grants, science policy, fundamenta	l research, project
'synthetic' elements, particle accelerator, experi	imental astrophysics	grants, problems in government support of scien	ice in the U.S.
Symmetro cicinoma, particio accoration, experi	1956 Sept. p. 82–91		1965 July p. 17-20
galaxy, stellar evolution, stellar populations, spira	ıl galaxies,	N.S.F., peer review, research funding, science police	cy, sociology of
distribution of 'population I' and 'II' stars in lo	cal Galaxy		7 Oct. p. 34-41 [698] 1956 Sept. p. 118
	1956 Sept. p. 92-99	work-study graduate programs U.S. science scholarships	1956 Nov. p. 62
cosmology, universe evolution, 'big bang' theory,	space curvature, 1956 Sept. p. 136–154	funding 70 percent Federal	1957 July p. 04
according to Gamow cosmology, energy transformation, steady-state ur		U.S. Federal budget 1959	1958 Jan. p. 44
	1956 Sept. p. 157–166	average stipend: \$6,120	1958 May p. 56
cosmology, red shift, universe expansion, spectros	copy, galaxies,	average stipend: \$ 6,120	1958 May p. 56 1960 Nov. p. 90
recession velocity, galactic clusters, observation	al cosmology	the dominant academic department by 1970	dministration
1956 S	Sept. p. 170-182 [240]	UNRRA: United Nations Relief and Rehabilitation A UNRRA milk program, powder instead of pasteurizati	on
galactic clusters, probability, gravitation, cosmolog	gy, Monte Carlo		1948 Nov. p. 25
method, distribution of galaxies as test of cosmo	956 Sept. p. 187–200	untouchables, class discrimination, Harijans, caste, Hi	nduism, India, civil
Cassiopeia, radio galaxies, Cygnus A, red shift, Cra	ab Nebula, colliding	rights	1903 DCC. P. 15
antovies I	956 Sept. p. 204-220	upper atmosphere, stratosphere, ionosphere, radio com	1949 Jan. p. 30–39
galactic evolution, irregular galaxies, galactic cluste	ers, irregular galaxies	aurora, noctilucent clouds, meteorology jet stream, weather, atmospheric circulation, index c	vele, polar front
as clues to galactic evolution	1961 Feb. p. 50-57		1932 Oct. p. 20-5.
universe evolution, cosmology, 'big bang' theory, univ	956 Sept. p. 136-154	atmospheric circulation, hurricanes, air masses, tropi	cal origin of
curvature, according to Gamow 19 cosmology, science history, philosophy of science, a	skeptical view of	hurricanes 1957 A	ug. p. 33-37 [047]
	750 Bept. p. 224 250	Antarctica, Earth magnetic field, 'whistlers', solar win atmosphere-magnetic field-solar wind interaction	10, 201012,
Cepheid variable, galactic evolution, 'cosmic yardst	ick'	1962 Se	pt. p. 74-83 [858]
		cloud mesonause, meteoritic dust, condensation nucle	ei, rocket-borne
universe expansion, cosmology, red shift, galactic rece	1948 July p. 20-25	- allegtors sample noctificent clouds	/63 June p. 30-37
abundance, 'synthetic' elements astronomy, galaxies, red shift, galactic recession, sci	ence, stellar	atmospheric circulation, meteorology, weather, solar r and rocket observations	64 Mar. D. 02-14
		- tow atmosphere ionosphere, solar radiation, ozon	e, oxygen atoms.
. As calles Andromeda	Galaxy galactic	The same almost atomic energy levels 1906	Mar. p. 102-110
Cepheid variable, Clouds of Magellan, Andromeda yardstick, doubling of yardstick doubles size and	age of the universe	tipper Paleolithic hunting peoples, Solutrean culture, ston	64 Aug. p. 86~94
yardstick, doubling of yardstick doubles size and	1953 June p. 56-66	inventories, France, 21,000 Julia 280	

_ .

velocity of light, physical constants, measurement, electr	on mass, particle	ecological warfare by herbicides	1968 Jan p 44
charge, least-squares method, standards of measure	ment. Planck's	defoliation, ecological war	1970 July p 48
constant, Rydberg constant 1970 C	oct p 62–78 [337]	defoliation suspended	1970 Aug p 46
Vema, seismology, ocean floor, explosion-generated sou	•	A A A S report on defoliation	1971 Feb p 44
	2 May p 116-126	dioxin in food chain	1973 Nov p 47
Vening-Meinesz apparatus, geoid, Earth, gravitation and		herbicidal warfare	1974 Apr p 49
gravity 1955	Sept p 164 [812]	Viking landers, Mars, Viking orbiters, Martian surfa	ace, Martian winds,
venom, kınıns, peptides kallıdın, inflammation, bradyk	nın, globulın,	orbital and ground photography of Martian la	
local hormones, production and distribution	-		78 Mar p 76–89 [399]
1962 Aug	p 111–118 [132]	Viking missions, interplanetary navigation, Mars, r	iavigational accuracy,
venous system, hypertension, plethysmography, vasocon	istriction, veins,	spacecraft navigation	1976 June p 58–74
actively dilating and constricting blood reservoir		Viking navigation, polarizing 'sun stones'(7)	1967 July p 44
1968 Ja	пр 86-96 [1093]	Viking orbiters, Mars, Viking landers, Martian surf	
venule, capillary bed, blood circulation, mesentery, arte	riole,	orbital and ground photography of Martian la	
cardiovascular system	1959 Jan p 54–60		78 Mar p 76–89 [399]
Venus, Jupiter, solar system, planets, radio astronomy,	measuring	Viking site, Newfoundland	1964 Jan p 56
	961 May p 58-65	Vikings, commerce, nomads, Scandinavia, Vinland,	
Manner 2, space exploration, telemetry, navigation, o	orbital motion,	seafaring, Svea, appraisal of 400-year Viking as	
	1963 July p 70–84	- Non- familia communidas motol estafasto Tuel es	1967 May p 66–78
spectrometry, balloon astronomy, infrared astronomy	/ 1065 I 20 27	village-farming communities, metal artifacts, Turkey	
	1965 Jan p 28–37	Neolithic archeology, man's first use of metals	1970 Mar p 50-56
extraterrestrial life, infrared astronomy, atmospheric	windows, iviars,	Vinca culture, pictograph, writing, Tartaria tablets,	
Jupiter, moon, spectrometry, history and recent re-	065 Aug p 20 20	cultural diffusion, Sumerian writing	1968 May p 30–37
	965 Aug p 20–29	Vinland, commerce, Vikings, nomads, Scandinavia,	
Doppler effect, planetary motion, radar astronomy, o	1968 July p 28–37	seafaring, Svea, appraisal of 400-year Viking as	
mapping, Mercury, microwaves Mars, atmosphere, space exploration, atmospheric di		Scattaring, over, appraisar or 100 year vining a	1967 May p 66–78
mais, atmosphere, space exploration, atmosphere of	969 Mar p 78–88	viola, bass, cello, violin, Chladni patterns, music, m	
planets, solar system, Earth, cratering, Venutian atm		physics of violins	1962 Nov p 78–93
planets, som system, Earth, eratering, vendum am	975 Sept p 70–78	violence, aggression, delinquency, motion picture fi	
radio emissions	1956 July p 50	catharsis, effects of observing filmed violence	, ,
star occultation yields atmospheric measurements	1960 Dec p 82	19	64 Feb p 35-41 [481]
solar system, Sputnik VIII Venus probe	1961 Apr p 74	U S commission on causes and prevention	1970 Feb p 42
radar mapping	1962 July p 58	violet shift, stellar rotation, Doppler effect, stellar e	
Mariner II data	1963 Feb p 64	spectroscopy, red shift, correlation of rotations	ıl velocıty with mass
surface temperature by Mariner II	1963 Apr p 80		1963 Feb p 46-53
Mercury, planetary temperature and motion	1964 Oct p 60	violin, bass, cello, viola, Chladni patterns, music, m	
radar observations	1965 Dec p 40	physics of violins	1962 Nov p 78–93
atmosphere, Venus 4 and Mariner 5	1967 Dec p 50	violin acoustics, varnish not significant	1969 Feb p 45
Venera 7 expedition	1971 July p 44	violin bow, friction, stick-slip friction, bearing, lubri	
Venus 8 expedition	1972 Nov p 52	prevention of friction	1956 May p 109–118
radar discloses cratered topography	1973 Oct p 47	viral disease, antibodies, hepatitis A, hepatitis B, tra viral hepatitis, Australian antigen (B), viral stri	iniusion nepatitis,
Venus probes, solar system, astronomical unit, space e Doppler effect, radar, Earth-Sun distance more pi	spicialion,		7 July p 44–52 [1365]
	1961 Apr p 64–72	viral DNA, gene culture, polyoma virus, cell transfo	ration SV40 varie
verbal communication, communication, acoustic forma			7 Apr p 28–37 [1069]
markedness/unmarkedness dyad, morphemes, sy	ntax, context	bacteria, proteolysis, infection, DNA sequence, re	estriction enzymes
	1972 Sept p 72-80	bacterial recognition and rejection of exotic Di	NA
ventication technology, arms control, satellite, SALT,	strategic weapons,	1970	Jan p 88–102 [1167]
'national technical means of verification' 1973	Feb p 14-25 [346]	DNA, E coli, gene structure, nucleotide sequence	e. bacterial virus
vernalization, Lysenko, genetics, potato virus, virus di	sease, agronomy,	0×174 , plus-and-minus method 197	7 Dec n 54_67 [1374]
the Lysenko affair	1962 Nov p 41–49	viral hepatitis, antibodies, hepatitis A, hepatitis B, ti	ranfusion hepatitis
Vesalius, human anatomy, Renaissance, medical histo		Australian antigen (B), viral structure, viral dis	ease
Corpons Fabrica, work of art	1948 May p 24–31	197	7 July p 44–52 [1365]
Vesuvius eruption, Roman civilization, Pompeu, two-t 165,000 acres		viral structure, antibodies, hepatitis A, hepatitis B, t	ranfusion hepatitis,
vibrating air column, musical instruments, clarinet ob	1958 Apr p 68–78	viral hepatitis, Australian antigen (B), viral dis	
English horn, saxophone, physics of the wood wi	nde	viral vaccines, adenoviruses, cancer virus, herpes vir	7 July p 44–52 [1365]
	960 Oct p 144–154	viral vaccines, adenoviruses, cancer virus, nerpes vir	
vibrating string, musical scale tone ladder, Pythagore	an doctrine music	Virgo cluster, Andromeda Galaxy, galactic clusters,	1973 Oct p 26–33
and mathematics, harmonic proportions, Kepler			77 Nov p 76–98 [390]
	1967 Dec p 92-103	virology, electron microscopy, cell, viruses inside ce	1 Nov b 10-39 [390]
vibration, noise control, constrained-layer damping, v	iscoelastic material	or and the state of the state o	1953 Dec p 38-41
	1969 Jan p 98-106	complement-fixation test, neutralization test, hen	Tagglutination test
videocameras, weather satellites, Tiros, telemetry atm	ospheric		1955 Mar n 60 70
circulation, heat budget of Earth air masses, pho		bacteriophage, recombinant DNA, provirus, mod	ified virus
maps, weather forecasting videodisc, optical-laser stylus	1961 July p 80-94	19	955 Apr - 02 00 1241
vidicon, vision retina, photographic emulsion, televis	1975 May p 45	mutation, tobacco mosaic virus, amino-acid seque	ence
photochemistry light image detection, electroni	c camera	hay temploss, hydrogen lands at the lands at	955 July p 74-78 [59]
11	968 Sept p 110_117	bacteriology, biological pest control, agricultural insect physiology, entomology, living insecticid	pest, insecticide,
Victnam war, bacteria, chemical weapons, biological	seanons arms race	physiology, entoliology, living insecticid	
CS gas virus disease rickettsiae, tear gas, herbic	ide chemical-	epidemiology, immunology, influenza virus, publi	1956 Aug. p 96–104
biological warfare 1970	May p 15-25 [1176]	and blochemistry of the virus	1057 Est - 27 42
public opinion, 'silent majority' 1970 bomb craters, cratering, ecological warfare, defolia	June p 17-25 [656]	horticulture, 'tulipomania', benign virus infection	1957 Feb p 37-43
tora	tion laterization		1960 Aug p 138-144
1972	May p 20-29 [1248]		h 120-144

perfumes

education, labor force, age-sex distribution, demographics, gross	name of the same o
national product, US census, more from the US census of 1960	vacuum furnace, metallurgy, crystal structure, zone melung, pure metals
1062 Oct = 20	1954 July n 16 40
population redistribution, U.S. census, human maration	paraprocessing, ingit vacuum, achievement and uses of vacuum
suburbanization, U.S. census of 1970 1971 July n. 17	in laboratory 1950 May p 20-24
148 million 19.49 Mars 2	
So-year growin 1050 Ann m	dioue, triode, dawn of solid-state electronics 1948 Sept n 52-51
O.S. Supreme Court, Jactorial analysis 1051 future	
U.SU.S.S.R. atomic controls deadlock, mediators intervene	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1049 Nov 1	radio, triode, De Forest, Marconi, Fleming valve, diode, rectification
U.S. whites, public opinion, American Negro, desegregation, attitude	
survey, rucial segregation, sociology, longitudinal attitude study	cathode-ray tube, Crookes tube, oscilloscope, Ferdinand Braun's
1956 Dec. n. 35. 3	Invention 1974 Mar p 92-101
desegregation, racial integration, public opinion, attitude survey	1905 July p 45
American Negro, longitudinal attitude study reported in 1956	Value judgments, behavior, pleasure 1968 Dec p 84-90 [518]
1964 July n 16~23 I62	Van Allen belts, artificial satellite, solar particles, cosmic radiation,
desegregation, racial integration. American Negro, attitude survey	, and the state of
public opinion, longitudinal attitudes study	mapping of radiation belts by Explorer satellites
1971 Dec. p. 13-19 [673	1959 Mar p 39-47 [248]
racial discrimination, prejudice, American Negro, public opinion	- Children of the control of the con
attitude survey, segregation, integration, longitudinal attitude study	meteorology, solar particle influence on Earth atmosphere 1959 Aug p 37-43 [85]]
1978 June p. 47-49 1707	solar corona, zodiacal light, solar prominences, solar atmosphere,
U.S.S.R.: Union of the Soviet Socialist Republics	ionospheric storms, Earth in the Sun's atmosphere
U.S.S.R., particle accelerator, research funding, high-energy physics	1959 Oct p 64-71
1956 Aug p 29-3	
economic development, industrial technology 1968 Dec p 17-23	
science education, research and development, science funding, science	1963 May p 84-96
manpower, USSR science policy 1969 June p. 19-29	aurora borealis, solar wind, solar corona, Earth magnetic field, comet
computer technology, software, Comecon, integrated circuits	tails, magnetic storms 1964 Apr p 66-76
1970 Oct p 102–108	Jupiter, radio emissions, magnetic field, origin of Jovian radio waves
manpower growing 1953 Jan p 31	1964 July p 34-42
Lysenko resurgent, geneticists barred from international meeting	cosmic radiation, interplanetary fields, interplanetary particles,
1958 Nov p 60	magnetosphere, solar flares, solar wind, aurora, solar system
research and development, OECD report 1969 Apr p 48	1975 Sept p 160-173
U.S.S.R. astronomy, appraised by Struve 1953 May p 56	Explorer VI and VII data 1960 Mar p 90
U.S.S.R. atomic bomb, arms race, Acheson-Lihenthal plan, Baruch plan,	Explorer XII, Injun I data 1962 Mar p 68
U S negotiating position at termination of 'atomic monopoly'	Van de Graaf generator, particle accelerator, electrostatic belt generator,
	24 23
1949 Nov p 11–13	charge-changing accelerator, negative ion 1970 Aug. p 24-33
Truman announcement 1949 Nov p 11–13 Truman announcement 1949 Nov p 26	charge-changing accelerator, negative ion 1970 Aug. p 24-33 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long
Truman announcement 1949 Nov p 11-13 Truman announcement 1949 Nov p 26 uterine muscle, obstetrical labor, strain gauge, measurement of forces in	Van der Waals force, 10nic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed
Truman announcement 1949 Nov p 11-13 Truman announcement 1949 Nov p 26 uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52-55	charge-changing accelerator, negative ion 1970 Aug. p 24-37 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p 14-17
Truman announcement 1949 Nov p 11-13 Truman announcement 1949 Nov p 26 uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52-55 progesterone, pregnancy, hormone, menstrual cycle, hormone	charge-changing accelerator, negative ion 1970 Aug. p 24-37 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p 14-17 vanadum elements lying matter essential elements, metallo enzymes,
Truman announcement 1949 Nov p 11-13 Truman announcement 1949 Nov p 26 uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52-55	Charge-changing accelerator, negative ion 1970 Aug. p. 24-33 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p. 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silvon, tri, list of elements essential to life lengthened to 24
Truman announcement 1949 Nov p 11-13 Truman announcement 1949 Nov p 26 uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52-55 progesterone, pregnancy, hormone, menstrual cycle, hormone	charge-changing accelerator, negative ion 1970 Aug. p. 24-33 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p. 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972 July p. 52-60 vanorization, capillary action, heat pines, latent heat, heat transfer, heat
Truman announcement 1949 Nov p 11-13 Truman announcement 1949 Nov p 26 uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52-55 progesterone, pregnancy, hormone, menstrual cycle, hormone	charge-changing accelerator, negative ion 1970 Aug. p 24-33 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972 July p 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p 38-46
Truman announcement 1949 Nov p 11-13 Truman announcement 1949 Nov p 26 uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52-55 progesterone, pregnancy, hormone, menstrual cycle, hormone	charge-changing accelerator, negative ion 1970 Aug. p 24-37 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972 July p 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p 38-46
Truman announcement 1949 Nov p 11-13 Truman announcement 1949 Nov p 26 uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52-55 progesterone, pregnancy, hormone, menstrual cycle, hormone	charge-changing accelerator, negative ion 1970 Aug. p 24-37 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972 July p 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955 May p 31-35
Truman announcement 1949 Nov p 11–13 1949 Nov p 26 uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52–55 progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163]	charge-changing accelerator, negative ion 1970 Aug. p 24-33 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972 July p 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955 May p 31-35
Truman announcement 1949 Nov p 11-13 Truman announcement 1949 Nov p 26 uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52-55 progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40-46 [163] v-particles, high-energy physics, mesons, fermion, boson, the multiplicity	charge-changing accelerator, negative ion 1970 Aug. p 24-33 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972 July p 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955 May p 31-35 variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter 1952 Mar p 56-59
Truman announcement 1949 Nov p 11-13 Truman announcement 1949 Nov p 26 uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52-55 progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40-46 [163] v-particles, high-energy physics, mesons, fermion, boson, the multiplicity	charge-changing accelerator, negative ion 1970 Aug. p 24-33 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972 July p 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955 May p 31-35 variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter 1952 Mar p 56-59
Truman announcement 1949 Nov p 11–13 Truman announcement 1949 Nov p 26 uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52–55 progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemiology, immunization 1964 Jan p 79–86	charge-changing accelerator, negative ion 1970 Aug. p 24-33 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972 July p 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955 May p 31-35 variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter 1952 Mar p 56-59 stellar composition, organ pipe analogy, stellar brightness 1975 June p 66-75
Truman announcement 1949 Nov p 11–13 Truman announcement 1949 Nov p 26 uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52–55 progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemiology, immunization 1964 Jan p 79–86 cowpox, medical history, smallpox immunization, variolation,	charge-changing accelerator, negative ion 1970 Aug. p 24-33 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972 July p 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955 May p 31-35 variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter 1952 Mar p 56-59 stellar composition, organ pipe analogy, stellar brightness 1975 June p 66-75 interstellar matter, stellar formation, infrared radiation lithium, 1007 Aug. p 30
Truman announcement 1949 Nov p 11–13 1949 Nov p 26 uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52–55 progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemiology, immunization cowpox, medical history, smallpox immunization, variolation, 'vaccination' before Jenner 1976 Jan p 112–117	charge-changing accelerator, negative ion 1970 Aug. p 24-93 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972 July p 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955 May p 31-35 variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter 1952 Mar p 56-59 stellar composition, organ pipe analogy, stellar brightness 1975 June p 66-75 interstellar matter, stellar formation, infrared radiation lithium, youngest stars? 1967 Aug p 30
Truman announcement 1949 Nov p 11–13 1949 Nov p 26 uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52–55 progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemiology, immunization 1964 Jan p 79–86 cowpox, medical history, smallpox immunization, variolation, 'vaccination' before Jenner 1976 Jan p 112–117 medical history, smallpox eradication, W H O campaign	charge-changing accelerator, negative ion 1970 Aug. p 24-93 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972 July p 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955 May p 31-35 variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter 1952 Mar p 56-59 stellar composition, organ pipe analogy, stellar brightness 1975 June p 66-75 interstellar matter, stellar formation, infrared radiation lithium, youngest stars? 1967 Aug p 30 variolation, cowpox, medical history, smallpox immunization
Truman announcement 1949 Nov p 11–13 Truman announcement 1949 Nov p 26 uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52–55 progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemiology, immunization 1964 Jan p 79–86 cowpox, medical history, smallpox immunization, variolation, 'vaccination' before Jenner 1976 Jan p 112–117 medical history, smallpox eradication, W H O campaign 1976 Oct p 25–33	charge-changing accelerator, negative ion 1970 Aug. p. 24-93 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p. 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972 July p. 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p. 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955 May p. 31-35 variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter 1952 Mar p. 56-59 stellar composition, organ pipe analogy, stellar brightness 1975 June p. 66-75 interstellar matter, stellar formation, infrared radiation lithium, youngest stars? variolation, cowpox, medical history, smallpox immunization vaccination, 'vaccination' before Jenner 1976 Jan. p. 112-117
Truman announcement 1949 Nov p 11–13 Truman announcement 1949 Nov p 26 uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52–55 progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemiology, immunization 1964 Jan p 79–86 cowpox, medical history, smallpox immunization, variolation, 'vaccination' before Jenner 1976 Jan p 112–117 medical history, smallpox eradication, W H O campaign 1976 Oct p 25–33 vaccine, influenza virus, immunization, chick-embryo culture,	charge-changing accelerator, negative ion 1970 Aug. p 24-39 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972 July p 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955 May p 31-35 variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter 1952 Mar p 56-59 stellar composition, organ pipe analogy, stellar brightness 1975 June p 66-75 interstellar matter, stellar formation, infrared radiation lithium, youngest stars? 1967 Aug p 30 variolation, cowpox, medical history, smallpox immunization vaccination, 'vaccination' before Jenner 1976 Jan p 112-117 vascular surgery, artery prostheses, cardiovascular disease
Truman announcement 1949 Nov p 11–13 Ig49 Nov p 26 uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52–55 progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemiology, immunization 1964 Jan p 79–86 cowpox, medical history, smallpox immunization, variolation, 'vaccination' before Jenner 1976 Jan p 112–117 medical history, smallpox eradication, W H O campaign 1976 Oct p 25–33 vaccine, influenza virus, immunization, chick-embryo culture, hemagglutination, genetic variation, difficulty in securing fluence 1977 21	charge-changing accelerator, negative ion 1970 Aug. p 24-93 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972 July p 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955 May p 31-35 variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter 1952 Mar p 56-59 stellar composition, organ pipe analogy, stellar brightness 1975 June p 66-75 interstellar matter, stellar formation, infrared radiation lithium, youngest stars? 1967 Aug p 30 variolation, cowpox, medical history, smallpox immunization vaccination, 'vaccination' before Jenner 1976 Jan p 112-117 vascular surgery, artery prostheses, cardiovascular disease atherosclerosis, repair of vascular disease damage 1961 Apr p 88-104
Truman announcement 1949 Nov p 11–13 Truman announcement 1949 Nov p 26 uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52–55 progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemiology, immunization 1964 Jan p 79–86 cowpox, medical history, smallpox immunization, variolation, 'vaccination' before Jenner 1976 Jan p 112–117 medical history, smallpox eradication, W H O campaign 1976 Oct p 25–33 vaccine, influenza virus, immunization, chick-embryo culture, hemagglutination, genetic variation, difficulty in securing flu	charge-changing accelerator, negative ion 1970 Aug. p. 24-93 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p. 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972 July p. 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p. 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955 May p. 31-35 variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter 1952 Mar p. 56-59 stellar composition, organ pipe analogy, stellar brightness 1975 June p. 66-75 interstellar matter, stellar formation, infrared radiation lithium, youngest stars? 1967 Aug. p. 30 variolation, cowpox, medical history, smallpox immunization vaccination, 'vaccination' before Jenner 1976 Jan. p. 112-117 vascular surgery, artery prostheses, cardiovascular disease atherosclerosis, repair of vascular disease damage. 1961 Apr. p. 88-104
Truman announcement 1949 Nov p 11–13 1949 Nov p 26 uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52–55 progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemiology, immunization 1964 Jan p 79–86 cowpox, medical history, smallpox immunization, vanolation, 'vaccination' before Jenner 1976 Jan p 112–117 medical history, smallpox eradication, W H O campaign 1976 Oct p 25–33 vaccine, influenza virus, immunization, chick-embryo culture, hemagglutination, genetic variation, difficulty in securing flu immunization 1953 Apr p 27–31 poliomyelitis, gammaglobulin, epidemiology, immunity, blood 1962 letter 25–29	charge-changing accelerator, negative ion 1970 Aug. p. 24-37 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p. 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972 July p. 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p. 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955 May p. 31-35 variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter 1952 Mar p. 56-59 stellar composition, organ pipe analogy, stellar brightness 1975 June p. 66-75 interstellar matter, stellar formation, infrared radiation lithium, youngest stars? 1967 Aug. p. 30 variolation, cowpox, medical history, smallpox immunization vaccination, 'vaccination' before Jenner 1976 Jan. p. 112-117 vascular surgery, artery prostheses, cardiovascular disease atherosclerosis, repair of vascular disease damage 1961 Apr. p. 88-104 cardiovascular surgery surgical stapler stapling technic for joining vessels 1962 Oct. p. 48-56
Truman announcement 1949 Nov p 11–13 Truman announcement 1949 Nov p 26 uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52–55 progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemiology, immunization 1964 Jan p 79–86 cowpox, medical history, smallpox immunization, variolation, 'vaccination' before Jenner 1976 Jan p 112–117 medical history, smallpox eradication, W H O campaign 1976 Oct p 25–33 vaccine, influenza virus, immunization, chick-embryo culture, hemagglutination, genetic variation, difficulty in securing flu immunization 1953 Apr p 27–31 poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation 1953 July p 25–29	charge-changing accelerator, negative ion 1970 Aug. p. 24-35 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p. 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972 July p. 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p. 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955 May p. 31-35 variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter 1952 Mar p. 56-59 stellar composition, organ pipe analogy, stellar brightness 1975 June p. 66-75 interstellar matter, stellar formation, infrared radiation lithium, youngest stars? 1967 Aug. p. 30 variolation, cowpox, medical history, smallpox immunization vaccination, 'vaccination' before Jenner 1976 Jan. p. 112-117 vascular surgery, artery prostheses, cardiovascular disease atherosclerosis, repair of vascular disease damage 1961 Apr. p. 88-104 cardiovascular surgery surgical stapler stapling technic for joining vessels 1962 Oct. p. 48-56 vasoconstriction, hypertension, venous system plethysmography, veins
Truman announcement uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemiology, immunization 1964 Jan p 79–86 cowpox, medical history, smallpox immunization, variolation, 'vaccination' before Jenner 1976 Jan p 112–117 medical history, smallpox eradication, W H O campaign 1976 Oct p 25–33 vaccine, influenza virus, immunization, chick-embryo culture, hemagglutination, genetic variation, difficulty in securing flu immunization 1953 Apr p 27–31 poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation 1953 Apr p 42–44	charge-changing accelerator, negative ion 1970 Aug. p 24-35 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972 July p 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955 May p 31-35 variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter 1952 Mar p 56-59 stellar composition, organ pipe analogy, stellar brightness 1975 June p 66-75 interstellar matter, stellar formation, infrared radiation lithium, youngest stars? 1976 Aug p 30 variolation, cowpox, medical history, smallpox immunization vaccination, 'vaccination' before Jenner 1976 Jan p 112-117 vascular surgery, artery prostheses, cardiovascular disease atherosclerosis, repair of vascular disease damage 1961 Apr p 88-104 cardiovascular surgery surgical stapler stapling technic for joining vessels vasoconstriction, hypertension, venous system plethysmography, veins
Truman announcement uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemiology, immunization 1964 Jan p 79–86 cowpox, medical history, smallpox immunization, variolation, 'vaccination' before Jenner 1976 Oct p 25–33 vaccine, influenza virus, immunization, chick-embryo culture, hemagglutination, genetic variation, difficulty in securing flu immunization 1953 Apr p 27–31 poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation 1953 July p 25–29 pohomyelitis virus, epidemiology, antibody persistence 1955 Apr p 42–44 congenital anomalies, purpura, virus disease, teratogenesis, pregnancy,	charge-changing accelerator, negative ion 1970 Aug. p. 24-35 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p. 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972 July p. 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p. 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955 May p. 31-35 variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter 1952 Mar p. 56-59 stellar composition, organ pipe analogy, stellar brightness 1975 June p. 66-75 interstellar matter, stellar formation, infrared radiation lithium, youngest stars? 1976 Aug. p. 30 variolation, cowpox, medical history, smallpox immunization vaccination, 'vaccination' before Jenner 1976 Jan. p. 112-117 vascular surgery, artery prostheses, cardiovascular disease atherosclerosis, repair of vascular disease damage 1961 Apr. p. 88-104 cardiovascular surgery surgical stapler stapling technic for joining vessels vasoconstriction, hypertension, venous system plethysmography, veins actively dilating and constricting blood reservoir 1968 Jan. p. 86-96 [1093]
Truman announcement uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemiology, immunization 1964 Jan p 79–86 cowpox, medical history, smallpox immunization, varcination, vaccination' before Jenner 1976 Jan p 112–117 medical history, smallpox eradication, W H O campaign 1976 Oct p 25–33 vaccine, influenza virus, immunization, chick-embryo culture, hemagglutination, genetic variation, difficulty in securing flu immunization 1953 Apr p 27–31 poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation 1953 July p 25–29 pohomyelitis virus, epidemiology, antibody persistence 1955 Apr p 42–44 congenital anomalies, purpura, virus disease, teratogenesis, pregnancy, 1966 July p 30–37	charge-changing accelerator, negative ion 1970 Aug. p. 24-37 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p. 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972 July p. 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p. 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955 May p. 31-35 variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter 1952 Mar p. 56-59 stellar composition, organ pipe analogy, stellar brightness 1975 June p. 66-75 interstellar matter, stellar formation, infrared radiation lithium, youngest stars? 1967 Aug. p. 30 variolation, cowpox, medical history, smallpox immunization vaccination, 'vaccination' before Jenner 1976 Jan. p. 112-117 vascular surgery, artery prostheses, cardiovascular disease atherosclerosis, repair of vascular disease damage cardiovascular surgery surgical stapler stapling technic for joining vessels 1962 Oct. p. 48-56 vasoconstriction, hypertension, venous system plethysmography, veins actively dilating and constricting blood reservoir 1968 Jan. p. 86-96 [1093] vault, architectural engineering, roof, Gothic arch, Romanesque barrier, see 1962 of 1961 and 1961 and 1961 and 1961 and 1961 and 1962 of 1961 and 1962 of 1963 and 1962 of 1963 and 1964 of 1963 and 1964 of 1964 o
Truman announcement uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemiology, immunization 1964 Jan p 79–86 cowpox, medical history, smallpox immunization, variolation, vaccination' before Jenner 1976 Jan p 112–117 medical history, smallpox eradication, W H O campaign 1976 Oct p 25–33 vaccine, influenza virus, immunization, chick-embryo culture, hemagglutination, genetic variation, difficulty in securing flu immunization poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation poliomyelitis virus, epidemiology, antibody persistence 1953 July p 25–29 pohomyelitis virus, epidemiology, antibody persistence 1955 Apr p 42–44 congenital anomalies, purpura, virus disease, teratogenesis, pregnancy, 1966 July p 30–37 chemotherapy, drug effects, liver function, pharmacology, hormone,	charge-changing accelerator, negative ion 1970 Aug. p. 24-37 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p. 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972. July p. 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p. 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955. May p. 31-35 variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter 1952. Mar. p. 56-59 stellar composition, organ pipe analogy, stellar brightness 1975. June p. 66-75 interstellar matter, stellar formation, infrared radiation. lithium, youngest stars? variolation, cowpox, medical history, smallpox immunization vaccination, 'vaccination' before Jenner 1976. Jun. p. 112-117 vascular surgery, artery prostheses, cardiovascular disease atherosclerosis, repair of vascular disease damage cardiovascular surgery surgical stapler stapling technic for joining vessels vasoconstriction, hypertension, venous system plethysmography, veins actively dilating and constricting blood reservoir 1968. Jan. p. 86-96 [1093] vault, architectural engineering, roof, Gothic arch, Romanesque barrel vault, Byzantine dome, building construction vaulting technics 1961. Nov. p. 144-154.
Truman announcement 1949 Nov p 11–13 1949 Nov p 26 uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52–55 progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemiology, immunization 1964 Jan p 79–86 cowpox, medical history, smallpox immunization, variolation, vaccination' before Jenner 1976 Jan p 112–117 medical history, smallpox eradication, W H O campaign 1976 Oct p 25–33 vaccine, influenza virus, immunization, chick-embryo culture, hemagglutination, genetic variation, difficulty in securing flu immunization 1953 Apr p 27–31 poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation 1953 July p 25–29 poliomyelitis virus, epidemiology, antibody persistence 1955 Apr p 42–44 congenital anomalies, purpura, virus disease, teratogenesis, pregnancy, congenital rubella rubella 1966 July p 30–37 chemotherapy, drug effects, liver function, pharmacology, hormone, 1973 Sept p 102–112	charge-changing accelerator, negative ion 1970 Aug. p. 24-37 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p. 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972 July p. 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p. 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955 May p. 31-35 variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter 1952 Mar p. 56-59 stellar composition, organ pipe analogy, stellar brightness 1975 June p. 66-75 interstellar matter, stellar formation, infrared radiation lithium, youngest stars? 1967 Aug. p. 30 variolation, cowpox, medical history, smallpox immunization vaccination, vaccination' before Jenner 1976 Jan. p. 112-117 vascular surgery, artery prostheses, cardiovascular disease atherosclerosis, repair of vascular disease damage 1961 Apr. p. 88-104 cardiovascular surgery surgical stapler stapling technic for joining vessels 1962 Oct. p. 48-56 vasoconstriction, hypertension, venous system plethysmography, veins actively dilating and constricting blood reservoir 1968 Jan. p. 86-96 [1093] vault, architectural engineering, roof, Gothic arch, Romanesque barrel vault, Byzantine dome, building construction vaulting technics 1961 Nov. p. 144-154
Truman announcement uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemiology, immunization 1964 Jan p 79–86 cowpox, medical history, smallpox immunization, variolation, 'vaccination' before Jenner 1976 Oct p 25–33 vaccine, influenza virus, immunization, chick-embryo culture, hemagglutination, genetic variation, difficulty in securing flu immunization poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation poliomyelitis virus, epidemiology, antibody persistence 1955 Apr p 42–44 congenital anomalies, purpura, virus disease, teratogenesis, pregnancy, congenital rubella, rubella chemotherapy, drug effects, liver function, pharmacology, hormone, antibiotics, medical care, herball medicine 1973 Sept p 102–112	charge-changing accelerator, negative ion 1970 Aug. p. 24-37 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p. 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972 July p. 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p. 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955 May p. 31-35 variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter 1952 Mar p. 56-59 stellar composition, organ pipe analogy, stellar brightness 1975 June p. 66-75 interstellar matter, stellar formation, infrared radiation lithium, youngest stars? 1967 Aug. p. 30 variolation, cowpox, medical history, smallpox immunization vaccination, 'vaccination' before Jenner 1976 Jan. p. 112-117 vascular surgery, artery prostheses, cardiovascular disease atherosclerosis, repair of vascular disease damage 1961 Apr. p. 88-104 cardiovascular surgery surgical stapler stapling technic for joining vessels 1962 Oct. p. 48-56 vasoconstriction, hypertension, venous system plethysmography, veins actively dilating and constricting blood reservoir 1968 Jan. p. 86-96 [1093] vault, architectural engineering, roof, Gothic arch, Romanesque barrel vault, Byzantine dome, building construction vaulting technics 1961 Nov. p. 144-154 vector, algebra, mathematics, science history, matrix. 1964 Sept. p. 70-78 vehicular traffic flow, mathematical model, urban transport.
Truman announcement uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemiology, immunization 1964 Jan p 79–86 cowpox, medical history, smallpox immunization, variolation, 'vaccination' before Jenner 1976 Oct p 25–33 vaccine, influenza virus, immunization, chick-embryo culture, hemagglutination, genetic variation, difficulty in securing flu immunization 1953 Apr p 27–31 poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation 1953 Apr p 25–29 pohomyelitis virus, epidemiology, antibody persistence 1955 Apr p 42–44 congenital anomalies, purpura, virus disease, teratogenesis, pregnancy, congenital rubella, rubella 1966 July p 30–37 chemotherapy, drug effects, liver function, pharmacology, hormone, antibiotics, medical care, herbal medicine 1973 Sept p 102–112 vaccine sought, N S F, rubella, measles vaccine, Haworth director 1963 May p 74	charge-changing accelerator, negative ion 1970 Aug. p. 24-39 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p. 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24, 1972. July p. 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p. 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955 May p. 31-35 variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter 1952 Mar p. 56-59 stellar composition, organ pipe analogy, stellar brightness 1975 June p. 66-75 interstellar matter, stellar formation, infrared radiation lithium, youngest stars? 1967 Aug. p. 30 variolation, cowpox, medical history, smallpox immunization vaccination, 'vaccination' before Jenner 1976 Jan. p. 112-117 vascular surgery, artery prostheses, cardiovascular disease atherosclerosis, repair of vascular disease damage cardiovascular surgery surgical stapler stapling technic for joining vessels 1962 Oct. p. 48-56 vasoconstriction, hypertension, venous system plethysmography, veins actively dilating and constricting blood reservoir 1968 Jan. p. 86-96 [1093] vault, architectural engineering, roof, Gothic arch, Romanesque barrel vault, Byzantine dome, building construction vaulting technics 1961 Nov. p. 144-154 vector, algebra, mathematics, science history, matrix. 1964 Sept. p. 70-78 vehicular traffic flow, mathematical model, urban transport traffic theory. 1963 Dec. p. 35-43
terine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52–55 progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemiology, immunization 1964 Jan p 79–86 cowpox, medical history, smallpox immunization, variolation, vaccination' before Jenner 1976 Jan p 112–117 medical history, smallpox eradication, W H O campaign 1976 Oct p 25–33 vaccine, influenza virus, immunization, chick-embryo culture, hemagglutination, genetic variation, difficulty in securing flu immunization 1953 Apr p 27–31 poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation 1953 July p 25–29 pohomyelitis virus, epidemiology, antibody persistence 1955 Apr p 42–44 congenital rubella, rubella 1966 July p 30–37 chemotherapy, drug effects, liver function, pharmacology, hormone, antibiotics, medical care, herbal medicine 1973 Sept p 102–112 vaccine sought, N S F, rubella, measles vaccine, Haworth director 1963 May p 74 vaccinia virus, adenoviruses, virology, X-ray diffraction, poliomyelitis	Charge-changing accelerator, negative ion 1970 Aug. p. 24-35 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p. 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972. July p. 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p. 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955. May p. 31-35 variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter 1952. Mar. p. 56-59 stellar composition, organ pipe analogy, stellar brightness 1975. June p. 66-75 interstellar matter, stellar formation, infrared radiation lithium, youngest stars? 1967. Aug. p. 30 variolation, cowpox, medical history, smallpox immunization vaccination, 'vaccination' before Jenner 1976. Jan. p. 112-117 vascular surgery, artery prostheses, cardiovascular disease atherosclerosis, repair of vascular disease damage 1961. Apr. p. 88-104 cardiovascular surgery surgical stapler stapling technic for joining vessels 1962. Oct. p. 48-56 vasoconstriction, hypertension, venous system plethysmography, veins actively dilating and constricting blood reservoir 1968. Jan. p. 86-96 [1093] vault, architectural engineering, roof, Gothic arch, Romanesque barrel vault, Byzantine dome, building construction vaulting technics 1961. Nov. p. 144-154. Vector, algebra, mathematics, science history, matrix. 1964. Sept. p. 70-78 vehicular traffic flow, mathematical model, urban transport traffic theory modeling auto flow patterns 1963. Dec. p. 35-43.
terine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52–55 progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemiology, immunization 1964 Jan p 79–86 cowpox, medical history, smallpox immunization, variolation, vaccination' before Jenner 1976 Jan p 112–117 medical history, smallpox eradication, W H O campaign 1976 Oct p 25–33 vaccine, influenza virus, immunization, chick-embryo culture, hemagglutination, genetic variation, difficulty in securing flu immunization 1953 Apr p 27–31 poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation 1953 July p 25–29 poliomyelitis virus, epidemiology, antibody persistence 1955 Apr p 42–44 congenital anomalies, purpura, virus disease, teratogenesis, pregnancy, congenital rubella, rubella 1966 July p 30–37 chemotherapy, drug effects, liver function, pharmacology, hormone, antibiotics, medical care, herbal medicine 1973 Sept p 102–112 vaccine sought, N S F, rubella, measles vaccine, Haworth director 1963 May p 74 vaccinia virus, adenoviruses, virology, X-ray diffraction, poliomyelitis virus, polyoma virus, herpes virus, influenza virus, tobacco mosaic virus, polyoma virus, herpes virus, influenza virus, tobacco mosaic virus, polyoma virus, herpes virus, influenza virus, tobacco mosaic virus, polyoma virus, herpes virus, influenza virus, tobacco mosaic virus, polyoma virus, herpes virus, influenza virus, tobacco mosaic	charge-changing accelerator, negative ion 1970 Aug. p. 24-37 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p. 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972 July p. 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p. 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955 May p. 31-35 variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter 1952 Mar. p. 56-59 stellar composition, organ pipe analogy, stellar brightness 1975 June p. 66-75 interstellar matter, stellar formation, infrared radiation lithium, youngest stars? 1967 Aug. p. 30 variolation, cowpox, medical history, smallpox immunization vaccination, 'vaccination' before Jenner 1976 Jan. p. 112-117 vascular surgery, artery prostheses, cardiovascular disease atherosclerosis, repair of vascular disease damage 1961 Apr. p. 88-104 cardiovascular surgery surgical stapler stapling technic for joining vessels vasoconstriction, hypertension, venous system plethysmography, veins actively dilating and constricting blood reservoir 1968 Jan. p. 86-96 [1093] vault, architectural engineering, roof, Gothic arch, Romanesque barrel vault, Byzantine dome, building construction vaulting technics 1961 Nov. p. 144-154 vector, algebra, mathematics, science history, matrix. 1964 Sept. p. 70-78 vehicular traffic flow, mathematical model, urban transport traffic theory modeling auto flow patterns 1963 Dec. p. 35-43 veins, hypertension, venous system, plethysmography, vasoconstriction actively dilating and constricting blood reservoir
terine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52–55 progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] **Particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemiology, immunization 1964 Jan p 79–86 cowpox, medical history, smallpox immunization, variolation, vaccination' before Jenner 1976 Jan p 112–117 medical history, smallpox eradication, W H O campaign 1976 Oct p 25–33 vaccine, influenza virus, immunization, chick-embryo culture, hemagilutination, genetic variation, difficulty in securing flu immunization 1953 Apr p 27–31 poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation 1953 July p 25–29 poliomyelitis virus, epidemiology, antibody persistence 1955 Apr p 42–44 congenital anomalies, purpura, virus disease, teratogenesis, pregnancy, congenital rubella, rubella 1966 July p 30–37 chemotherapy, drug effects, liver function, pharmacology, hormone, antibiotics, medical care, herbial medicine 1973 Sept p 102–112 vaccine sought, N S F, rubella, measles vaccine, Haworth director 1963 May p 74 vaccinia virus, adenoviruses, virology, X-ray diffraction, poliomyelitis virus, polyoma virus, herpes virus, influenza virus, tobacco mosaic virus, bacteriophage, structure of viruses 1963 Jan p 48–56 virus, bacteriophage, structure of viruses 1963 Jan p 30–37 virus, bacteriophage, structure of viruses 1963 Jan p 148–56	charge-changing accelerator, negative ion 1970 Aug. p. 24-35 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p. 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972 July p. 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p. 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955 May p. 31-35 variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter 1952 Mar p. 56-59 stellar composition, organ pipe analogy, stellar brightness 1975 June p. 66-75 interstellar matter, stellar formation, infrared radiation lithium, youngest stars? 1976 Aug. p. 30 variolation, cowpox, medical history, smallpox immunization vaccination, 'vaccination' before Jenner 1976 Jan. p. 112-117 vascular surgery, artery prostheses, cardiovascular disease atherosclerosis, repair of vascular disease damage 1961 Apr. p. 88-104 cardiovascular surgery surgical stapler stapling technic for joining vessels 1962 Oct. p. 48-56 vasoconstriction, hypertension, venous system plethysmography, veins actively dilating and constricting blood reservoir 1968 Jan. p. 86-96 [1093] vault, architectural engineering, roof, Gothic arch, Romanesque barrel vault, Byzantine dome, building construction vaulting technics 1961 Nov. p. 144-154 vector, algebra, mathematics, science history, matrix. 1964 Sept. p. 70-78 velicular traffic flow, mathematical model, urban transport. traffic theory modeling auto flow patterns. 1964 Spr. p. 70-78 velicular traffic flow, mathematical model, urban transport. traffic theory modeling auto flow patterns. 1964 Spr. p. 70-78 velicular traffic flow, mathematical model, urban transport. 1964 Spr. p. 70-78 velicular traffic flow and constricting blood reservoir. 1968 Jun. p.
terine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52–55 progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] **V-particles*, high-energy physics, mesons, fermion, boson, the multiplicity of particles 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemiology, immunization 1964 Jan p 79–86 cowpox, medical history, smallpox immunization, variolation, 'vaccination' before Jenner 1976 Jan p 112–117 medical history, smallpox eradication, W H O campaign 1976 Oct p 25–33 vaccine, influenza virus, immunization, chick-embryo culture, hemagglutination, genetic variation, difficulty in securing flu immunization 1953 Apr p 27–31 poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation 1955 July p 25–29 poliomyelitis virus, epidemiology, antibody persistence 1955 Apr p 42–44 congenital anomalies, purpura, virus disease, teratogenesis, pregnancy, congenital rubella, rubella rubella rubella rubella, rubella chemotherapy, drug effects, liver function, pharmacology, hormone, antibiotics, medical care, herbial medicine 1973 Sept p 102–112 vaccine sought, N S F, rubella, measles vaccine, Haworth director 1963 Map p 74 vaccinia virus, adenoviruses, virology, X-ray diffraction, poliomyelitis virus, polyoma virus, herpes virus, influenza virus, tobacco mosaic virus, bacteriophage, structure of viruses 1963 Jan p 48–56 virus, bacteriophage, structure of viruses 1963 Jan p 48–56 virus, bacteriophage, structure of viruses 1963 Jan p 48–56 virus, bacteriophage, structure of viruses 1963 Jan p 48–56 virus, pacterioscopy, ultra-high vacuum, oil diffusion pump, sputter-ion vacuum, spectroscopy, ultra-high vacuum, oil diffusion pump, sputter-ion vacuum, spectroscopy, ultra-high vacuum, oil diffusion pump, sputter-ion vacuum, spectroscopy.	charge-changing accelerator, negative ion 1970 Aug. p. 24-37 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p. 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24, 1972 July p. 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p. 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955 May p. 38-35 variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter 1952 Mar p. 56-59 stellar composition, organ pipe analogy, stellar brightness 1975 June p. 66-75 interstellar matter, stellar formation, infrared radiation lithium, youngest stars? 1967 Aug. p. 30 vanolation, cowpox, medical history, smallpox immunization vaccination, 'vaccination' before Jenner 1976 Jan. p. 112-117 vascular surgery, artery prostheses, cardiovascular disease atherosclerosis, repair of vascular disease damage 1961 Apr. p. 88-104 cardiovascular surgery surgical stapler stapling technic for joining 1962 Oct. p. 48-56 vasoconstriction, hypertension, venous system plethysmography, veins actively dilating and constricting blood reservoir 1968 Jan. p. 86-96 [1093] vault, architectural engineering, roof, Gothic arch, Romanesque barrel vault, Byzantine dome, building construction vaulting technics 1961 Nov. p. 144-154 vector, algebra, mathematics, science history, matrix 1964 Sept. p. 70-78 vehicular traffic flow, mathematical model, urban transport traffic theory modeling auto flow patterns 1963 Dec. p. 35-43 vens, hypertension, venous system, plethysmography, vasoconstriction actively dilating and constricting blood reservoir 1968 July p. 48-51 [255]
Truman announcement uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52–55 progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemiology, immunization 1964 Jan p 79–86 cowpox, medical history, smallpox immunization, vanolation, 'vaccination' before Jenner 1976 Jan p 112–117 medical history, smallpox eradication, W H O campaign 1976 Oct p 25–33 vaccine, influenza virus, immunization, chick-embryo culture, hemagglutination, genetic variation, difficulty in securing flu immunization 1953 Apr p 27–31 poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation 1953 July p 25–29 poliomyelitis virus, epidemiology, antibody persistence 1955 Apr p 42–44 congenital anomalies, purpura, virus disease, teratogenesis, pregnancy, congenital rubella chemotherapy, drug effects, liver function, pharmacology, hormone, antibiotics, medical care, herbial medicine 1973 Sept p 102–112 vaccine sought, N S F, rubella, measles vaccine, Haworth director 1963 May p 74 vaccinia virus, adenoviruses, virology, X-ray diffraction, poliomyelitis virus, polyoma virus, herpes virus, influenza virus, tobacco mosaic virus, bacteriophage, structure of viruses 1963 Jan p 48–56 vacuum, spectroscopy, ultra-high vacuum, oil diffusion pump, sputter-ion pump, cryogenic pump, mass, vacuum down to 10 til mm of mercury pump, cryogenic pump, mass, vacuum down to 10 til mm of mercury	charge-changing accelerator, negative ion 1970 Aug. p. 24-37 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p. 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972 July p. 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p. 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955 May p. 31-35 variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter 1952 Mar p. 56-59 stellar composition, organ pipe analogy, stellar brightness 1975 June p. 66-75 interstellar matter, stellar formation, infrared radiation lithium, youngest stars? 1967 Aug. p. 30 vanolation, cowpox, medical history, smallpox immunization vaccination, 'vaccination' before Jenner 1976 Jan. p. 112-117 vascular surgery, artery prostheses, cardiovascular disease atherosclerosis, repair of vascular disease damage 1961 Apr. p. 88-104 cardiovascular surgery surgical stapler stapling technic for joining vessels 1962 Oct. p. 48-56 vasoconstriction, hypertension, venous system plethysmography, veins actively dilating and constricting blood reservoir 1968 Jan. p. 86-96 [1093] vault, architectural engineering, roof, Gothic arch, Romanesque barrel vault, Byzantine dome, building construction vaulting technics veincular traffic flow, mathematical model, urban transport traffic theory modeling auto flow patterns 1963 Dec. p. 35-43 veins, hypertension, venous system, plethysmography, vasoconstriction actively dilating and constricting blood reservoir 1968 Jan. p. 86-96 [1093] velocity, measurement, Brownian motion, time, uncertainty principle Planck's constant, limits of measurement 1950 July p. 48-51 [255] flame chemistry, chemical kinetics, flash tube ram jet, h. it, luminosity
terine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52–55 progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] **V-particles*, high-energy physics, mesons, fermion, boson, the multiplicity of particles 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemiology, immunization 1964 Jan p 79–86 cowpox, medical history, smallpox immunization, variolation, 'vaccination' before Jenner 1976 Jan p 112–117 medical history, smallpox eradication, W H O campaign 1976 Oct p 25–33 vaccine, influenza virus, immunization, chick-embryo culture, hemagglutination, genetic variation, difficulty in securing flu immunization 1953 Apr p 27–31 poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation 1955 July p 25–29 poliomyelitis virus, epidemiology, antibody persistence 1955 Apr p 42–44 congenital anomalies, purpura, virus disease, teratogenesis, pregnancy, congenital rubella, rubella rubella rubella rubella, rubella chemotherapy, drug effects, liver function, pharmacology, hormone, antibiotics, medical care, herbial medicine 1973 Sept p 102–112 vaccine sought, N S F, rubella, measles vaccine, Haworth director 1963 Map p 74 vaccinia virus, adenoviruses, virology, X-ray diffraction, poliomyelitis virus, polyoma virus, herpes virus, influenza virus, tobacco mosaic virus, bacteriophage, structure of viruses 1963 Jan p 48–56 virus, bacteriophage, structure of viruses 1963 Jan p 48–56 virus, bacteriophage, structure of viruses 1963 Jan p 48–56 virus, bacteriophage, structure of viruses 1963 Jan p 48–56 virus, pacterioscopy, ultra-high vacuum, oil diffusion pump, sputter-ion vacuum, spectroscopy, ultra-high vacuum, oil diffusion pump, sputter-ion vacuum, spectroscopy, ultra-high vacuum, oil diffusion pump, sputter-ion vacuum, spectroscopy.	charge-changing accelerator, negative ion 1970 Aug. p. 24-37 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p. 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972 July p. 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p. 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955 May p. 31-35 variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter. 1952 Mar. p. 56-59 stellar composition, organ pipe analogy, stellar brightness 1975 June p. 66-75 interstellar matter, stellar formation, infrared radiation lithium, youngest stars? 1967 Aug. p. 30 vanolation, cowpox, medical history, smallpox immunization vaccination, vaccination' before Jenner 1976 Jan. p. 112-117 vascular surgery, artery prostheses, cardiovascular disease atherosclerosis, repair of vascular disease damage cardiovascular surgery surgical stapler stapling technic for joining vessels 1962 Oct. p. 48-56 vasoconstriction, hypertension, venous system plethysmography, veins actively dilating and constricting blood reservoir 1968 Jan. p. 86-96 [1093] vault, architectural engineering, roof, Gothic arch, Romanesque barrel vault, Byzantine dome, building construction vaulting technics 1961 Nov. p. 144-154 vector, algebra, mathematics, science history, matrix. 1964 Sept. p. 70-78 velicular traffic flow, mathematical model, urban transport traffic thoromodeling auto flow patterns 1963 Dec. p. 35-43 vens, hypertension, venous system, plethysmography, vasoconstriction actively dilating and constricting blood reservoir 1968 Jun. p. 86-96 [1093]

eye, retinal pigments, color perception, cone cells, trichromaticity	'Ames room', personality, aniseikonic lenses, anxiety, 'Honi'
implies three cone pigments 1962 Nov p 120–132 [139]	phenomenon, emotional relationships condition perception 1959 Apr p 56-60
eye, visual cortex, retina, optic nerve, organization of sight into vision 1963 Nov p 54-62 [168]	color vision, 'long' and 'short' wavelengths in color perception
nervous system, reflex arc, motor neuron, interneuron, animal	1959 May p 84-99 [223]
behavior, small neuron systems as models for study	'visual cliff', depth perception, infant, comparative psychology, genesis
learning, sensory perception, touch, visual perception dominates touch	of depth perception 1960 Apr p 64-71 visual scanning, retina, visual cortex, how we see straight lines
1967 May p 96–104 [507]	1960 June p 121–129
visual pigments, opsin, rhodopsin, isomerism, vitamin A	depth perception, vision, learning, innate and learned response to
1967 June p 64–76 [1075]	visual cues 1961 Mar p 138–148
eye movement, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera	form perception, learning, perception, innate or learned form perception 1961 May p 66–72 [459]
1968 Aug p 88–95 [516]	retina, vision, learning, Gestalt psychology, stabilized retinal images,
retina, photographic emulsion, vidicon, television camera,	evidence for perceptual theories 1961 June p 72–78 [466]
photochemistry, light, image detection, electronic camera 1968 Sept p 110-117	learning, Fechner's law, psychophysics, Skinner box, behavioral psychology, conditioned behavior, pigeon perception
photosynthesis, photoperiodicity, visual pigments, phytochrome,	1961 July p 113–122 [458]
chlorophyll, retina cells, plant growth, light and living matter	moon illusion, apparent distance theory, Gestalt psychology,
1968 Sept p 174–186	explanation of a familiar illusion 1962 July p 120–130 [462] color vision, constancy effect, neutral colors
light, image processing, visual perception, imagery, eye and brain in visual perception 1968 Sept p 204-214 [519]	1963 Jan p 107–116 [474]
eidetic images, child psychology, perceptual memory, 'photographic'	visual systems, scallop, surf clam, inhibitory impulse, shadow-sensitive
memory 1969 Apr p 36-44 [522]	receptors, invertebrate 'eyes' as models for study of organization of
perception, retinal image-processing, visual perception, retina, visual- cell types 1969 May p 104-114 [1143]	sensation in perception 1963 July p 122–130 amphibian, frog, color vision, retina, retinal image-processing, retinal
afterimages, phosphenes, perception, prosthesis for blind, self-	processing of visual sensation 1964 Mar p 110–119
illumination of visual centers 1970 Feb p 82–87	optical illusion, illusion of movement, apparent movement, motion
aging, cataract, eye lens, human eye 1975 Dec p 70-81 binocular vision, random-dot stereograms, stereogram experiments,	perception 1964 Oct p 98–106 [487] pattern recognition, computer graphics, stereoscopic images, texture
visual perception 1976 Mar p 80–86 [569]	discrimination, depth perception 1965 Feb p 38–48 [318]
isual adaptation, color vision, vision, human eye	binocular vision, infant development, operant conditioning,
1962 May p 62–72 [465]	developmental psychology, information processing, space, size,
risual attention, vision, eye movement, saccades, fovea, human eye, visual fixation, experiments with eye-marker camera	shape perception in human infants 1966 Dec p 80–92 [502] vision, light, image processing, imagery, eye and brain in visual
1968 Aug p 88–95 [516]	perception 1968 Sept p 204-214 [519]
visual cells, rod cells, cone cells, autoradiography, protein synthesis,	optical illusion, size constancy, distortion, pictures as objects, illusions
renewal mechanisms in retinal cells 1970 Oct p 80–91 (visual cliff', depth perception, infant, comparative psychology, visual	arise from normally useful mechanisms 1968 Nov p 66–76 [517] perception, vision, retinal image-processing, retina, visual-cell types
perception, genesis of depth perception 1960 Apr p 64-71	1969 May p 104-114 [1143]
visual communication, information theory, painting, sculpture,	eye movement, pattern recognition, scan-path recordings, serial-
architecture, communication, trademarks, language, visual stimulus, visual signals 1972 Sept p 82–96 [548]	recognition hypothesis 1971 June p 34–43 [537] depth reversal, Necker cube, optical illusion, reversing figures
visual cortex, visual perception, visual scanning, retina, how we see	1971 Dec p 62–71 [540]
straight lines 1960 June p 121–129	contour perception, contrast perception, Mach bands, neuronal
human eye, optical illusion, vision, sensory perception, 'after effects', 'cortical satiation' 1962 Jan p 44-49	response, optical illusion, Craik-O'Brien effect 1972 June p 90–101 [543]
eye, retina, optic nerve, vision, organization of sight into vision	bilingualism, dyslexia, eye movement, grammatical relations, language,
1963 Nov p 54–62 [168]	reading, perception of words 1972 July p 84–91 [545]
binocular vision, depth perception, eye, neurophysiology, optic chiasm, stereopsis 1972 Aug p 84-95 [1255]	cultural differences, split-style art, cultural context of perception, Hudson test 1972 Nov. p. 82–88 [551]
brain circuitry, embryonic development, nerve cells, neuronal	brain circuitry, mammalian brain, nerve signals, sensory systems
specificity, Xenopus laevis 1973 Feb p 26–35 [1265]	stimulus localization, superior colliculus in integration at brain
albinism, gene mutation, Siamese cat, white mink, white tiger, cross- eyed trait 1974 May p 44-54 [1294]	function 1972 Dec p 72-82 [553] brain hemispheres, cerebral dominance, left-hemisphere functions,
brain circuitry, eye movement, neurophysiology, pons, visual	music perception, right-hemisphere functions, auditory perception
processing, visual cells in pons 1976 Nov p 90–98 cat response to parallax 1968 Feb p 52	1973 Mar p. 70–78 [554]
visual discrimination, color vision, learning, conditioned behavior,	information theory, computer graphics, 'block portraits', computer enhancement, pattern recognition, recognition of faces
behavioral psychology, Skinner box, pigeons conditioned to respond	1973 Nov. p. 70. 82
to discrete wavelengths of light 1958 Jan p 77–82 [403]	disoriented figures, form perception, retinal orientation
visual fixation, vision, eye movement, saccades, visual attention, fovea, human eye, experiments with eye-marker camera	1974 Jan p 78–85 [557] animal behavior, escape response, neurophysiology, toad, visually
1968 Aug n 88-95 [516]	guided behavior 1974 Mar p. 34 42 (1202)
visual illusion, see optical illusion visual memory, image processing, memory, perception, linguistic material,	color fusion, color scission, perceptual transparency physical
remembering what is seen 1970 May p. 104–112 [528]	transparency, optical illusion, transparency
visual perception, 'Ames room', distance perception, motion perception.	art, Escher's prints, optical illusion, perception of pictures, psychology
optical illusion, size perception, illusions as clues to organization of perception 1951 Aug p 50-55	107.1 July = 00 104 (500)
nerve regeneration, vision, learning, embryonic development, inhorn	contrast perception, spatial frequency, visual thresholds
hard winner of herve circuity 1056 Nov. = 48 52 (1000)	pattern recognition, figure-ground perception, texture discrimination,
horseshoe crab, vision, Limulus, ommatidia, optic nerve, horseshoe crab as laboratory animal 1956 Dec p 113–122	1975 Apr p 34-43 [563]
kinesthetic memory, spatial orientation, neuropsychology, perception	of a monon determination to the second secon
of the upright 1959 Feb p 50-56 [410]	binocular vision, random-dot stereograms, stereogram experiments, vision 1976 Mar p 80–86 [569]
	contour perception, optical illusion 1976 Apr p 48–52 [570]
	, , , = == == == == == == == == == == ==

243

interferon, virus interference, broad-spectrum natural anti-viral agent	anata
1961 May n 51 57 to-	carcinogenesis, cancer epidemiology, environmental carcinogens,
adenoviruses, A-ray diffraction, poliomyelitis virus, polyoma virus	better better that attorn, cancer prevention
herpes virus, influenza virus, vaccinia virus, tobacco mosaie virus,	interferon induction, medical care 1975 Nov. p. 64-78 [1330]
bacteriophage, structure of viruses 1963 Jan. p. 48-50 interferon, virus interference, nucleic acid, infection, anti-viral agent	antigen variation, disease, medical history, influenza virus encephalitis
found to act against foreign nucleic acid 1963 Oct. p. 46–50 1166	Dandemics animal vectors Hone Vone for mine for
found to act against foreign nucleic acid 1963 Oct. p. 46-50 [166 bacteria, flies, epidemiology, maggot, dysentery, disease vector	1977 Dec. p. 88-106 [1375]
1065 Tuly = 02.00	carcinogenesis, integrated DNA 1968 Nov. p. 56
vital nucleic acid and injection 1061 Oct - oc	
viid valley, Peru, New World archeology 1954 Aug n 20 24	virus interference, interferon, virology, broad-spectrum natural anti-viral agent 1961 May p. 51-57 [87]
virus, herpes simplex, chick-embryo culture, symbiosis	interferon virology nucleic acid infection anti-virol agent found to
hiochemistry enzymes citric said and a 1949 Nov. p. 50–53	act against foreign nucleic acid 1963 Oct. p. 46-50 [166]
biochemistry, enzymes, citric-acid cycle, metabolism, co-enzymes, sulfa drugs, antibiotics, science, biochemistry 1900-1950	virus laboratory, at Berkeley 1952 Dec. p. 28
1950 Sept. p. 62–68	virus multiplication, DNA, genetic code, poliomyelitis virus, protein
aster yellow, leafhopper, virus infective to plant and insect	
1953 June p. 78_86	virus # X 174, DNA synthesis, cell-free system, DNA polymerase, activated nucleotides, first test-tube synthesis of biologically active
life cycle, reproduction, bacteriophage, provints 1954 Mar n 34_37	DNA 1968 Oct. p. 64-78 [1124]
tobacco mosaic virus, protein 'overcoat', nucleic acid 'core',	virus particles, bacteriophage, gene mapping, amber mutants
dissociation and reconstitution of infective particles	1965 Feb. p. 70-78 [1804]
1956 June p. 42-47 cell anatomy, spermatozoon, ovum, science history, cytology, muscle	rods and spheres 1956 May p. 62
cell, plant cell, connective tissue cell, introduction to single-topic	virus shell, virus structure, polyhedra, bacteriophage, assembly of T4 subunits from core out .1966 Dec. p. 32-39 [1058]
1961 Sept. p. 50–61 [90]	virus structure, protein 'overcoat', DNA 1954 Dec. p. 62-70 [32]
bacteriology, microorganisms, PPLO, electron microscopy, cytology,	polyhedra, virus shell, bacteriophage, assembly of T4 subunits from
smallest free-living cells 1962 Mar. p. 117–126 [1005]	core out 1966 Dec. p. 32-39 [1058]
leukemia, leukocyte, cancer, chemotherapy, ionizing radiation, Down's	bacteriophage, T4 virus, DNA, mutation, morphogenesis, test-tube
syndrome, origin and treatment of lymphocytic and granulocytic leukemia 1964 May p. 88-96	reconstruction of viral components 1967 July p. 60-74 [1079]
TMV in cross-section 1952 Jan. p. 36	DNA, genetic code, poliomyelitis virus, protein synthesis, RNA, virus multiplication 1975 May p. 24-31
hardy viruses, in test tube 35 years 1953 Mar. p. 52	exploded view 1953 Nov. p. 54
T4 virus assembled 1967 May p. 56	electronmicroscopy 1954 Apr. p. 49
virus action, bacteriophage structure, gene expression, latent viruses,	visa policy, loyalty and security, scientists denied U.S. visas
provirus, coexisting viruses, viral genes in host chromosome	1952 Mar. p. 35 loyalty and security, visa-troubled psychologists 1952 July p. 36
1976 Dec. p. 102–113 [1347] virus antigens, antibodies, antigen complement, immune response,	loyalty and security, visa-troubled psychologists loyalty and security, visa to Pauling 1952 Sept. p. 12
lymphocytes, virus disease, autoimmune disease, allergic reaction,	loyalty and security, meetings go abroad 1953 Mar. p. 47
immune-complex disease, glomerulonephritis, lymphocytic	loyalty and security courts compel visas 1955 Sept. p. 72
choriomeningitis, serum sickness 1973 Jan. p. 22–31 [1263]	viscoelastic material poise control vibration constrained-layer damping
virus culture, polio virus, human embryo tissue 1955 Sept. p. 76	1969 Jan. p. 98-106
virus-destroying bacterium 1959 Sept. p. 108 virus disease, antibiotics, aureomycin, rickettsial disease, bacterial	viscometer, molecular weight determination, polymers, light scattering, photometer, how giant molecules are measured 1957 Sept. p. 90-97
infection, 'broad spectrum' antibiotic 1949 Apr. p. 18–23	malacular maight determination, polymers, light scalleffills.
antibiotics, infectious disease, toxicity, bacterial resistance, status of	photometer how giant molecules are measured 1957 Nov. p. 30-31
new medical technology 1949 Aug. p. 26–35	viscosity, eddies, negative viscosity, turbulence, wind, normal transfer and 17,80
encephalitis, animal vectors, influenza virus 1949 Sept. p. 18–21	sition relation form percention role of experience in visual
common cold, human subjects, chilling test, Salisbury, England, study 1951 Feb. p. 39-45	perception 1949 Aug. p. 32 32
influenza virus, bacteriophage, poliomyelitis virus, bacteriophage,	'afair language and hand goordination human eve
antigen-antibody reaction, immunity, infection, host-specificity,	1950 Feb. p. 20–22 [401]
viruses in infection and in the laboratory 1951 May p. 43-51	learning, experience, sensory deprivation, 'arrested vision', role of environment experience in normal development
carcinogenesis, polyoma virus, recombinant DNA, 'temperate'	1950 July p. 16-19 [408]
infection, genetic transduction, viral induced malignancy 1960 Nov. p. 63-71 [77]	nerve regeneration, learning, visual perception, embryonic
common cold, tissue culture, 20 strains cultured 1960 Dec. p. 88-102	development, inborn 'hard wiring' of nerve circuitry 1956 May p. 48-52 [1090]
I vsenko genetics, notato virus, vernalization, agronomy, the Lysenko	harrashan grab Limulus ammatidia visual percention, optic nerve,
affair 1962 Nov. p. 41–49 eye disease, trachoma, vaccination, epidemiology, immunization	horseshoe crab as laboratory animal 1956 Dec. p. 113-122
eye disease, tracnoma, vaccination, epidenhology, minumization 1964 Jan. p. 79–86	elembant intelligence learning research in elembant learning
congenital anomalies, purpura, vaccine, teratogenesis, pregnancy,	elephant, intelligence, learning, restarch in elephant, 1957 Feb. p. 44-49 glaucoma, iridectomy, blindness, human eye 1959 Aug. p. 110-117
non-conital rubella rubella 1900 July P. 30-37	glaucoma, iridectomy, blindness, human eye 1959 Aug. p. 110-117 photosynthesis, chlorophyll, carotene, retinene, photobiology.
brain disease, scrapie, kuru, Chédiak-Higashi syndrome, animal	who to transfer biolymines cence sunlight life and 11201
beaterie chamical weapons biological weapons. Vietnam war, arms	1939 Oct. p. 92=100
CC and riokettsine tear and herbicide, chemical-biological	depth perception, learning, visual perception, innate and learned response to visual cues 1961 Mar. p. 138-148
warfare 1970 Way p. 15-25 [1770]	reting visual perception, learning, Gestalt psychology, stabilized
interferon induction, poly I:C, synthetic RNA 1971 July p. 26–31 [1226]	ratinal images, evidence for perceptual theories
the state of the s	1961 June p. 72-78 [466] hearing, sensory organs, ommatidia, neuroreceptor cells, cytology, taste
	had how calls receive stimuli 1901 SCDL D. 222-230 [77]
disease, glomerulonephritis, lymphocytic choriomeningitis, serum 1973 Jan. p. 22–31 [1263]	human eye, optical illusion, sensory perception, after effects, visual
sickness viral vaccines	poster (cortical satiation) 1902 Jun. p. 44-47
adenoviruses, cancer virus, nerpes virus, virus	ever reting 'floaters', nature and origin of 'floaters'
degenerative diseases, immune system, slow virus infection, kuru, 1974 Feb. p. 32–40 [1289]	1962 June p. 119–127
scrapie, cancer virus, herpes virus	

1968 Aug p 66-74 [1123

1967 Dec p 118-125 [1088

voting behavior, public opinion, voters' attitudes, correlation analysis,	water-breathing by mammals, lung, gill, oxygen transfer, carbon dioxide,
ethnic groups, income, social status, family, 'votes in the making'	gas exchange, breathing, animal experiments in water-breathing
1950 Nov p 11–13	1968 Aug p 66–74 [112
elections, public opinion, attitude survey, election of 1952	water buffalo, domestic animals, animal husbandry, agricultural water
1954 May p 31–35	buffalo as draft and 'beef' animal 1967 Dec p 118–125 [108
fluoridation, public opinion, anti-scientific attitudes	water clock, control systems, feedback, thermostat, windmills, automatic
1955 Feb p 35–39 [453]	control, flyball governor, origins of feedback control
voting systems, elections, public opinion, paradox inescapable	1970 Oct p 110-1
1976 June p 21–27 [689]	water conservation, evaporation control 1956 Oct p
vulcanization, butadiene, rubber synthesis, isoprene, latex, elastomers,	water cycle, ground water, artesian well, piezometric surface, water table
synthetic rubber, molecular structure 1956 Nov p 74-88	resource management, runoff, ground water in water-resource
vultures, bird flight, gliding birds, soaring, thermal cells, lift phenomena	
1973 Dec p 102–109	cloud seeding, air pollution, water drop, ice crystals, fog, inversion laver, smog 1968 Dec p 74–82 [87
	layer, smog 1968 Dec p 74-82 [87] transpiration, evaporation, runoff, agricultural system, ocean,
	precipitation, biosphere, photosynthesis 1970 Sept p 98–108 [119
W/	atmospheric circulation, hydrology, ground water, 'aerological
W	accelerator' 1973 Apr p 46–61 [90
t and the formation	ground water, reservoir recharging, water resource management
wadı, Nabataean culture, ırrıgatıon, desert, agrıcultural system,	1977 May p 21–27 [92
restoration of Nabataean irrigation works in the Negev 1956 Apr p 39-45	water drinking, antelope, desert adaptation, thermoregulation,
1930 Apr p 35-43	evaporation, eland and oryx, survival without drinking
wagons, transportation, wheeled vehicles, oxen, carts, Transcaucasus,	1969 Jan p 88-
Mesopotamia, origin of wheeled transport 5,000 years ago 1968 July p 82-90	water drop, cloud seeding, water cycle, air pollution, ice crystals, fog,
	inversion layer, smog 1968 Dec p 74–82 [87
wake turbulence, aerodynamics, aircraft-wake vortexes, contrails, flight safety jet flight 1974 Mar p. 76–83	water erosion, climatic change, rivers, drainage patterns, river evolution
safety, jet flight 19/4 Mar p /0-83 waking, sleep, biological clock, body temperature	1967 Apr p 84-
1952 Nov p 34–38 [431]	'water gas' process, coal, chemical raw material, fossil fuel, coking,
walking, locomotion, primates, human evolution, bipedal walking,	hydrogenation 1955 July p 58-6
muscle, bone, fossil record, origin of human walking	water II, boundary-phase hypothesis, superdense water, polymerization,
1967 Apr p 56–66 [1070]	polywater, thermal conductivity, surface tension, evidence for water
architecture, stairs, stride 1974 Oct p 82–90	II argued 1970 Nov p 52-
locomotion, nervous system. Edweard Muybridge photographs, control	water injection, petroleum, gas injection, secondary recovery
of walking 1976 Dec p 72-86 [1346]	1965 July p 34-4
Wallace, Darwinism, natural selection, science history, life and work of	land subsidence, petroleum extraction 1967 June p 93–10
Alfred Russel Wallace 1959 Feb p 70-84	water maser, maser, cosmic masers, hydroxyl maser, maser star,
wandering poles, Earth, geomagnetism, remanent magnetism, magnetic	interstellar matter, astrophysics, quantum mechanics, 'nature
reversals, Earth's magnetism 1955 Sept p 152–162	imitates art' 1978 June p 90–10
Wankel engine, automobile engines, rotary engine, Tschudi engine	water molecules, crystallography, ice, crystal structure, snow crystals,
1969 Feb p 90–99	migrating lattice faults in ice 1966 Dec p 118–126 [30
air pollution, automobile engines, rotary engine, auto engineering	water of crystallization, atmosphere, escape velocity, photosynthesis, volcanoes, nitrogen, oxygen, origin and evolution of Earth's
1972 Aug p 14–23	
war, ACTH, stress, combat fatigue, psychiatry, Korean war studies of battlestress 1956 Mar p 31-35	atmosphere 1953 Aug p 82-86 [82 water palatability, mineral content 1967 Feb p (
architectural engineering, castle, Norman invasion, English castles,	water pollution, biological oxygen demand, sewage treatment, radioactiv
A D 1066 1958 Mar p 42–48	waste disposal, stream pollution 1952 Mar p 17-2
social psychology, Zulu peoples, social anthropology, short-lived	air pollution, cities, water supply, sewage disposal, smog, taxation, Lo
empire of Zulu chief Shaka 1960 Apr p 157–168	Angeles, New York, metabolism of cities 1965 Sept p 178–19
cavalry, Mongol conquests, Chingis Khan, frontier history, nomatic	eutrophication, fisheries, fish population, runoff, Great Lakes, silt, U
civilization, Chingis Khan, biography 1963 Aug p 54-68	Great Lakes' aging 1966 Nov p 94–104 [105
archery, sling, accuracy, range and lethality of sling 1973 Oct p 34-42	thermal pollution, nuclear power, industrial cooling, aquatic life,
Warsaw, high-energy physics, report on a visit by Leopold Infeld	cooling towers, waste heat 1969 Mar p 18-27 [113
1949 Dec p 40-43	U.S. Federal anti-pollution act 1961 Sept p. 9
waste disposal, in 'tectonic sinks' 1972 Feb p 41	oil-dispersing detergents 1967 Nov p
'super slurper' for liquid messes 1976 Apr p 61	biodegradable surfactant 1968 May p
waste recycling, forest products, wood pulp, paper, cellulose, lignin,	nitrate fertilizers 1969 Mar p
rayon, kraft process 1974 Apr p 52–62 wastewater, treatment with bacteria 1972 Dec p 42	water purification, catalysis, corona discharge, free radicals, ozone,
wastewater purification, high-gradient magnetic separation, kaolin	polymerization, corona chemistry, hydrocarbon cracking
purification, magnetic separation, separation techniques	1965 June p 90-9 water quality, ocean pollution, pollution control, waste disposal in ocean
1975 Nov p 46–54	1974 Aug p 16–3
water, photosynthesis, chlorophyll, carbon dioxide, tracer experiments	water resource management, economic development, industrialization,
1948 Aug p 24–35	water supply, irrigation, desalination, technology and economics of
ice, hydrogen-ion migration, snow crystals, hydrogen bonds, hydration,	water in economic development 1963 Sept. p. 97-10
physical and chemical properties 1956 Apr p 76-89	irrigation, ground water, artesian well, agricultural technology, Sahara
distillation, desalination, ion exchange solar still, alternative	desert, land reclamation, intercalary water, 'fossil' water, making
technologies 1957 Mar p 37–45	desert fertile 1966 May n. 21. 2
ice, snow, frost, supercooling, condensation nuclei, ice worms, how water freezes	ground water, reservoir recharging, water cycle
water freezes 1959 Feb p 114–122 anomalous' water, 'biological' water, blood, hemoglobin, membrane	1977 May p 21-27 [92-
permeability, osmosis, erythrocyte, van 't Hoff law	water resources, international 'hydrologic decade' planned
1971 Feb p 88–96 [1213]	water retention, mouse physiological advances in 1963 Oct p 5
a liquid semi-crystal	water retention, mouse, physiological adaptation, behavioral adaptation, Mus musculus, commensal of man 1969 Oct. p. 103-110 (115)
water balance, desert rat, kidney, oxidation of food, how hanner-tailed	Mus musculus, commensal of man 1969 Oct p 103-110 [115] water-strider, surface tension, backswimmer, whirligig beetle, ecology,
kangaroo fal survives without water 1953 July n 73,78 (1950)	springtail, aquatic insect, insects of the water surface
body water, homeostasis, distribution between intracellular and	- 1070 A

extracellular 'compartments'

1958 Nov p 125-132

```
iter clock, control systems, feedback, thermostat, windmills, automatic
  control, flyball governor, origins of feedback control
                                                  1970 Oct p 110-118
                                                        1956 Oct p 68
ter conservation, evaporation control
ter cycle, ground water, artesian well, piezometric surface, water table,
  resource management, runoff, ground water in water-resource
                                              1950 Nov p 14-19 [818
  management
cloud seeding, air pollution, water drop, ice crystals, fog, inversion
                                              1968 Dec p 74-82 [876
  layer, smog
transpiration, evaporation, runoff, agricultural system, ocean,
  precipitation, biosphere, photosynthesis 1970 Sept p 98-108 [1191
atmospheric circulation, hydrology, ground water, 'aerological
                                              1973 Apr p 46-61 [907
  accelerator'
ground water, reservoir recharging, water resource management
                                              1977 May p 21-27 [924
ater drinking, antelope, desert adaptation, thermoregulation,
  evaporation, eland and oryx, survival without drinking
                                                     1969 Jan p 88-95
ater drop, cloud seeding, water cycle, air pollution, ice crystals, fog,
                                              1968 Dec p 74-82 [876
  inversion layer, smog
ater erosion, climatic change, rivers, drainage patterns, river evolution
                                                    1967 Apr p 84-94
ater gas' process, coal, chemical raw material, fossil fuel, coking,
  hydrogenation
                                                     1955 July p 58-67
ater II, boundary-phase hypothesis, superdense water, polymerization,
  polywater, thermal conductivity, surface tension, evidence for water
  II argued
                                                    1970 Nov p 52-71
ater injection, petroleum, gas injection, secondary recovery
                                                     1965 July p 34-42
                                                   1967 June p 93-100
land subsidence, petroleum extraction
ater maser, maser, cosmic masers, hydroxyl maser, maser star,
  interstellar matter, astrophysics, quantum mechanics, 'nature
                                                   1978 June p 90-105
   imitates art'
ater molecules, crystallography, ice, crystal structure, snow crystals,
   migrating lattice faults in ice
                                            1966 Dec p 118-126 [307]
rater of crystallization, atmosphere, escape velocity, photosynthesis,
   volcanoes, nitrogen, oxygen, origin and evolution of Earth's
   atmosphere
                                              1953 Aug p 82-86 [824]
ater palatability, mineral content
                                                        1967 Feb p 60
ater pollution, biological oxygen demand, sewage treatment, radioactive
   waste disposal, stream pollution
                                                    1952 Mar p 17-21
 air pollution, cities, water supply, sewage disposal, smog, taxation, Los
   Angeles, New York, metabolism of cities
                                                 1965 Sept p 178-190
 eutrophication, fisheries, fish population, runoff, Great Lakes, silt, US
   Great Lakes' aging
                                            1966 Nov p 94-104 [1056]
 thermal pollution, nuclear power, industrial cooling, aquatic life.
   cooling towers, waste heat
                                             1969 Mar p 18-27 [1135]
 US Federal anti-pollution act
                                                       1961 Sept p 90
 oil-dispersing detergents
                                                       1967 Nov p 53
 biodegradable surfactant
                                                       1968 May p 53
                                                       1969 Mar p 48
 nitrate fertilizers
rater purification, catalysis, corona discharge, free radicals, ozone,
   polymerization, corona chemistry, hydrocarbon cracking
                                                    1965 June p 90-98
vater quality, ocean pollution, pollution control, waste disposal in oceans
                                                    1974 Aug p 16-25
nater resource management, economic development, industrialization,
    water supply, irrigation, desalination, technology and economics of
    water in economic development
                                                  1963 Sept p 92-108
 irrigation, ground water, artesian well, agricultural technology, Sahara
    desert, land reclamation, intercalary water, 'fossil' water, making
    desert fertile
                                                    1966 May p 21-29
 ground water, reservoir recharging, water cycle
                                              1977 May p 21-27 [924]
water resources, international 'hydrologic decade' planned
                                                        1963 Oct p 58
water retention, mouse, physiological adaptation, behavioral adaptation,
    Mus musculus, commensal of man
                                           1969 Oct p 103-110 [1159]
water-strider, surface tension, backswimmer, whirligig beetle, ecology,
```

1978 Apr p 134-142 [1387]

afterimages, negative aftereffects, optical illusion viticulture, grape fermentation, wine, yeast, climate, enzymes, chemical 1976 Dec. p 42-48 [574] explanation of a good wine, role of climate eye, motion-perception system, moving-target perception, neurophysiology 1964 Aug p 46-56 [190] 1977 Jan p 60-73 [575] color and illumination, color vision, reflection, 'retinex' theory, visual wine varieties. Mediterranean wines, temperate climate wines pigments, 'color Mondrian' experiment 1977 Dec. p 108-128 [1392] 1974 June p 106-115 [1298] vocal display, behavior, speech, facial expression, nonverbal adjacency principle, motion perception, contextual cues in perception communication, facial expression in communication 1978 May p. 126-139 [582] 1965 Oct p 88-94 [627] Limulus, ultraviolet receptor 1964 Apr. p 62 vocal tract, speech synthesis, talking computers, spectrograph Voder retinal image processing 1965 Jan. p. 50 1972 Feb p 48-58 color-blind art students 1970 Apr p 48 Voder, computer technology, speech recognition, sound spectrogram visual pigments, afterimages, color vision, photochemistry, sensory 1955 Feb p 92-98 discrimination, photochemistry of color perception speech synthesis, talking computers, vocal tract, spectrograph 1963 Oct p 84-93 [1089] 1972 Feb p 48-58 vision, opsin, rhodopsin, isomerism, vitamin A voice, physics, harmony, string instruments, wind instruments, plano 1967 June p 64-76 [1075] musical scale, acoustics, agreeable melodies and physical laws vision, photosynthesis, photoperiodicity, phytochrome, chlorophyll, 1948 July p 32-41 retina cells, plant growth, light and living matter music, singing voice, pharynx, larynx, acoustics of singing voice 1968 Sept p 174-186 1977 Mar p 82-91 color blindness, cone cells, fovea, genetic disease, reunal imagevoice analysis, acoustic analysis, sound spectrogram, speech quality of processing 1975 Mar p 64-74 [1317] 1965 Mar p 82-91 [492] mental patients color and illumination, color vision, reflection, 'retinex' theory, visual volcanic activity, Andes, earthquake distribution, mountain formation, perception, 'color Mondrian' experiment 1973 Aug p 60-69 [910] plate tectonics, seismic waves 1977 Dec p 108-128 [1392] volcanic eruption, Krakatoa, plant succession, ecology visual processing, brain circuitry, eye movement, neurophysiology, pons, 1949 Sept p 52-54 visual cortex, visual cells in pons 1976 Nov p 90-98 diamond, plumes, Earth mantle, kimberlite pipes, genesis of kimberlite visual scanning, visual perception, retina, visual cortex, how we see 1978 Apr p 120-132 [931] straight lines 1960 June p 121-129 volcanic rocks, magnetic field, paleomagnetism, geomagnetic reversals, memory, visual search, information processing, reading, pattern sea-floor spreading, reversals of Earth's magnetic field recognition 1967 Feb p 44-54 1964 June p 94-102 [486] eye movement, feedback, visual tracking, human eye, control volcanic sediments, Eocene epoch, Yellowstone National Park, petrilied mechanisms of the eye 1964 July p 24-33 wood, erosion, petrified forests of Yellowstone visual search, memory, visual scanning, information processing, reading, 1964 Apr p 186-114 pattern recognition volcanie zones, earthquake zones, island arcs, lithosphene subduction, 1964 June p 94-102 [486] visual stimulus, information theory, painting, sculpture, architecture, mountain formation, plate tectonics, sea-floor spreading, subduction 1975 Nov p 88-98 [919] visual communication, communication, trademarks, language, visual signals volcanoes, geophysics, geochemistry, their physics, chemistry, 1972 Sept p 82-96 [548] 1951 Nov p 45-52 visual systems, visual perception, scallop, surf clam, inhibitory impulse, distribution and role in geological processes climate, dust, solar radiation, world climate and volcanic activity shadow-sensitive receptors, invertebrate 'eyes' as models for study of 1952 Apr p 74-80 [843] organization of sensation in perception 1963 July p 122-130 atmosphere, escape velocity, photosynthesis, water of crystallization, visual targeting, coordination of movement, eye-head coordination, nitrogen, oxygen, origin and evolution of Earth's atmosphere sensory feedback 1974 Oct p 100-106 [1305] 1953 Aug p 82-86 [824] visual thresholds, contrast perception, spatial frequency, visual perception Earth crust, continental evolution, island arcs, sedimentation, origin of 1974 Nov p 106-114 [1308] 1955 Sept p 62-66 [816] visual tracking, eye movement, feedback, visual scanning, human eye, the continents sea-floor spreading, rain, sea water composition, geochemical cycle, control mechanisms of the eye 1964 July p 24-33 salinity, carbonate, hydrologic cycle, why the sea is salt vital capacity, gas exchange, thorax, lung, pulmonary ventilation, 1970 Nov p 104-115 [839] breathing, alveoli, human physiology, mechanics and physiology of domes, hot spots, island arcs, plate tectonics ocean rifts, plumes 1966 Feb p 56-68 [1034] breathing, anatomy of lung 1976 Aug p 46-57 [920] vital statistics, abortion, population, marriage rate, death rate, birth rate, Volta, battery, electrochemistry, electric power, Galvani, Volta's menarche, infant mortality, 1538-1812, parish registers, York, 1965 Jan p 82-91 1970 Jan p 105-112 contributions, biography England 'voltage clamp' technique, giant axon, squid, nerve impulse, sodium chronic illness, morbidity, mortality rates, medical care, life 1958 Dec p 83-90 expectancy, infectious disease, degenerative diseases, causes of death pump, nerve cells voltaic pile, animal electricity, Galvani, a major discovery in physics as 1973 Sept p 76-84 1950 Feb p 40-43 well as biology vitamin A, vision, visual pigments, opsin, rhodopsin, isomerism voluntary hospitals, medical economics, medical care, public funds 1967 June p 64-76 [1075] municipal hospitals, proprietary hospitals, metropolitan medical vitamin A deficiency, electroretinography, night blindness, opsin, 1965 Jan p 19-27 economics in New York City rhodopsin, bright-light exposure, retinitis pigmentosa, night Volvox, cell aggregation, metazoa, between single celled and multi-celled 1966 Oct p 78-84 [1053] blindness in rat, action of vit A on eye 1950 May p 52-55 vitamin B12 synthesis, trace elements, cobalt, desert ecology, land organisms 1957 Apr p 68 von Neumann, obituary reclamation, agricultural technology, reclamation of infertile von Neumann machine, automata theory. Turing machine, brain circuitry 1959 Jan p 97-106 1955 Apr p 58-67 Austrialian land computer design 1949 Feb p 29 Vitamin B14, shows anti-tumor action feedback, computer science, automata theory, Turing machine, selfvitamin D, steroid hormones, sex hormones, cholesterol, cortisone reproducing machine, 'artificial living plants' 1956 Oct p 118-126 1955 Jan p 52-60 [8] voodoo lily, insect attractant Arum family, carnivorous plants. calcium metabolism, parathyroid hormone, phosphate metabolism, 1966 July p 80-88 1961 Apr p 56-63 [86] respiration osteogenesis, parathyroid function vortex, computer applications, fluid dynamics, computer modeling. cancer, ultraviolet radiation, melanocytes, suntanning, epidermis, skin 1965 Mar p 104-110 scaling, wind tunnel, computer graphics 1968 July p 38-46 feedback, edge tone, aerodynamic whistles, hole tone, sound waves air pollution, rickets, ultraviolet radiation, osteogenesis, calcium whistles, flutes, organs and rocket engines 1970 Jan p 40-46 1970 Dec p 76-91 [1207] metabolism, epidemiology, sunlight vortex ring, quantum mechanics, superfluidity helium, macroscopic artificial light, biological clock, sunlight, suntanning, body's response 1964 Dec p 116-122 quantum effects quantized vortex rings 1975 July p 68-77 [1325] voters' attitudes, public opinion, voting behavior, correlation an ilysis,

1952 Apr p 40

ethnic groups, income, social status, family, 'sotes in the making

1950 Nov p 11-13

244

vitamins, Milorganite, from Milwaukee sewage

food chain, plankton, krill, Antarctic convergence	ce, Euphausia superba 958 Jan p 84–89 [853]	W.H.O., malaria, DDT, mosquitoes, eradication o	f malaria 1952 June p 22–25
			1948 May p 33
hale 'farming', 'coral corrals' proposed	1967 Mar p 52	existence assured	
hale population, low kill-quota urged	1965 June p 58	US joins	1948 July p 30
in uneasy equilibrium with whaling	1973 Aug. p 42	charter ratified	1948 Aug. p 22
haling, blue whale, sonar, krill, food chain, natur	al history of the largest	state of public health broadcasts	1949 Feb p 29
animal	1956 Dec p 46-50	USSR. walks out	1949 Mar p 27
whaling industry, Antarctic convergence, blue wha	le endangered species	malaria, anti-malaria campaign	1949 Apr p 26
Tetered Wholes Commission	1966 Aug. p 13–21	world assembly	1949 June p 28
International Whaling Commission		Soviet-bloc nations rejoin	1956 July p 48
theat, einkorn, wild einkorn, emmer, hybrid cells,	Tungi, emoniosome	10-year progress report	1958 June p 46
doubling, plant breeding, origin and perfection	on of wheat		1975 Oct. p 53
	1953 July p 50–59	epidemiology, 'nver blindness' in Africa	
plant hybrids, hybrid wheat, agronomy, food pr	oduction	W.H.O. campaign, medical history, smallpox eradi	cation, vaccination
	1969 May p 21–29		1976 Oct p 25–33
'green revolution', India, food and agriculture, t	echnology transfer,	whooping crane, summers at Great Slave Lake	1952 Oct. p 44
monsoons, irrigation, fertilizers, rice, agronor	my, hybrid crop plants	widow birds, birds, finches, mimicry, parasitism, se	xual behavior, animal
, , , , , ,	1976 Sept p 154-163	behavior	1974 Oct. p 92–98
agronomy, crop yields, plant breeding, rice, ma	ize, food and	wild einkorn, wheat, einkorn, emmer, hybrid cells,	fungi, chromosome
agriculture, plant genetics	1976 Sept. p 180-194	doubling, plant breeding, origin and perfectio	
rust resistant wheat hybrid	1957 Apr p 74	2, 2, 2, 1	1953 July p 50-59
	1959 Jan p 63	wildlife conservation, crippled goose, air-lifted to C	
hybrid development		Wilding conservation, emphred goods, and intent to c	1953 Јипе р 54
wheat rust, mycology, fungi, ergot, potato blight, i	morer, amanua,	Wilson hypothesis, atmospheric ionization, thunde	
Penicillium notatum, yeast, molds and men	1050 T		
	1952 Jan. p 28–32 [115]	atmosphere, thunderstorms replenish Earth's	
wheel bounce, automobiles, road building, highwa	ay engineering,		1953 Apr p 32–37
'corrugated' road surface, 'washboard' road s	surface	Wilson's disease, agammaglobulinemia, gene expre	
	1963 Jan p 128–136	congenital anomalies, chemistry of hereditary	
wheeled vehicles, transportation, oxen, carts, wag	ons, Transcaucasus,	enzyme hypothesis	1956 Dec p 126–136
Mesopotamia, origin of wheeled transport 5,	000 years ago	chelation, hemochromatosis, lead poisoning, pha	ırmacology, drug
	1968 July p 82~90	action, metal poisoning, heavy metal poisonin	g, bone cancer,
whirligig beetle, surface tension, water-strider, ba	ckswimmer, ecology,	salicylates, aspirin, cancer therapy, chemother	rapy, medical
springtail, aquatic insect, insects of the water	rsurface	exploitation of chelates	1966 May p 40-50
	8 Apr p 134–142 [1387]	ceruloplasmin, hemocyanin, oxygen transport, e	
whiskers, crystal structure, metals, fiber-reinforce		deficiency, cytochrome oxidase, copper bioch	
	1965 Feb p 28-37	deficiency, cytochichile cidalise, copper bioth	1968 May p 102–114
composite materials, two-phase materials		wilt disease, alfalfa caterpillar, ecology, insecticide	
alloys, eutectics, crystal structure, metallurgy,	1067 Feb = 86 02		
controlled-cooling magnets	1967 Feb p 86-92	pest, predation	1954 June p 38–42
composite materials, materials technology, fibe		antibiotics, plant disease, rot, blight, smut, mold	· = ·
materials, fiber-reinforced composites, matri		W 1 (D D) 1 1 1 1	1955 June p 82-91
	1967 Sept. p 160–176	Winchester, Roman Britain, urban archeology	1974 May p 32–43
'whistlers', Earth magnetic field, lightning, radio,		wind, Earth, ocean circulation, gyres, upwelling, th	
echoes of lightning	1956 Jan p 34-37	oceans	1955 Sept p 96-104
Antarctica, Earth magnetic field, upper atmos		meteorology, atmospheric circulation, cyclone, a	
atmosphere-magnetic field-solar wind intera			956 Dec p 40-45 [841]
	1962 Sept p 74-83 [858]	meteorology, cloud, lee waves, soaring, glider, es	thetic exploitation of
acoustical analogue of geomagnetic 'whistler'	1971 Sept p 84	lee waves	1961 Mar p 124-134
whistling, language, Canary Islands, nonverbal c	ommunication,	weather, thunderstorms, jet stream, squall lines,	low-altitude let
phonology, the whistled language of La Goi	mera	streams	1961 Aug. p 120-131
	1957 Apr p 111-118	atmosphere, ocean circulation, climate, Coriolis	effect
white cells, see lymphocytes	• -	• , , , , , , , , , , , , , , , , , , ,	1969 Sept. p 76-86
white dwarfs, dwarf stars, degenerate gas, gravita	itional collapse, binary	eddies, negative viscosity, turbulence, nonunifor	
stars, 'dying' stars	1959 Jan. p 46–53	systems, viscosity	1970 July p 72-80
pulsar, neutron stars, gravitational collapse, a	ngular momentum,	solar radiation, energy cycle, biosphere, albedo,	atmospheric
'lighthouse' model proposed	1968 Oct p 25-35	circulation, climate, ocean circulation, terresti	ual radiation carbon
gravitational collapse, neutron stars, pulsar, si			0 Sept p 54-63 [1189]
stars, ultradense matter	1971 Feb p 24-31	wind bracing, skyscrapers, construction technology	Fiffel Toy or
black hole, gravitational waves, neutron stars,	nulsar, relativity theory.	cantilever, truss bridge, steel frame construction	on outline vall
Red Giant stars, rotational energy	1972 May p 38-46	eminiotes, stabb oriego, steel frame complication	
radio pulses	1968 Apr p 42	wind effect, Coriolis effect, ocean circulation, curre	1974 Feb p 92–105
white-light reconstruction, holography, laser, mi	croscops color	analogues 197	ints, laboratory
holography	1968 Feb p 40-48	wind erosion, dust storms, dry land farming, Great	0 Jan p 114-121 [390]
white mink, albinism, gene mutation, Siamese co	at vasual cortex white	farmlands, agricultural technology	
	1974 May p 44-54 [1294]	Mars Martin atmosphere due to the	1954 July p 25-29
white oak, forest ecosystem, X-ray, gamma radi	ation atomic homb feet	Mars, Martian atmosphere, dust storms, dry ice	
weeds, environmental pollution, ecological	effects of high-energy	ward incomments who was to	1977 July p 34-43
radiation	1963 June p 40-49 [159]	wind instruments, physics, harmony, string instrum	ients, piano, voice,
white pine, North American forests, Royal Nav	King's Broad Arrow	musical scale, acoustics, agreeable melodies ar	
American Revolution, colonial building	1948 June p 48-53	wand now as secondly.	1948 July p 32-41
white tiger, albinism, gene mutation, Siamese co	to suit p 40-25	wind power, as standby	1949 Aug. p 24
mink, cross eyed trait	1974 May n. 44-54 [1204]	100 kW windmills	1954 Feb p 48
whitefish, lamprey, jawless fish, pest control, G	reat Takes front	wind tower, air conditioning, air vent, domed roof,	architecture, cooling
	1055 Apr p 36 41	system, passive cooling systems in Iranian arc	hitecture
whites, intelligence race, IQ, heredity, America	in Negro, heredity	1079	9 Eak - 144 154 (505)
population genetics, science policy, social	nsuchology mane	wind tunnel, aerodynamics insect flight, locust, eff	iciency of locust flight
environment, racial discrimination	1970 Oct. p 19–29 [1199]		1056 10 117 124
W HO: World Health Organization	220 Oct b 12-52 [1148]	aerodynamics, supersonic flight, shock waves, m	olecular beam, ultra-
3		high alutude aerodynamics	1958 Jan p 36-42
			- F '=

water supply, economic development, industrialization, irrigation,	weather
desamation, water resource management, technology and appropria	weather, microseisms, seismology, earthquakes 1949 Feb p 42-45
or water in economic development 1067 e.m on 10	o , , , , , , , , , , , , , , , , , , ,
furnition Eupannus, Samos, Greek civilization, Classical archeology,	ice-floe islands. Arctic Ocean currents
reat of Classical Engineering 1964 lung = 104 (1)	climate, solar wind, ionosphere, meteorology, coronametry, Earth's
agricultural irrigation, canals, hydro-engineering, pipelines, Jordan Valley Plan, Israel, Jordan 1965 Mar. p. 23-33	weather and solar wind 1957 Apr n 138–148 [849]
valley Plan, Israel, Jordan 1965 Mar p 23-3; air pollution, cities, sewage disposal, smog, water pollution, taxation,	thunderstorms, wind, jet stream, squall lines, low-altitude jet streams
Los Angeles, New York, metabolism of cities 1965 Sept p 178–190	1961 Aug p 120-131
bacterial toxin, cholera, disease, medical care, sanitation, epidemiology	
1971 Aug n 15 21	Total the second of the second
A water Policy for the American People' 1951 Feb p. 32	urban heat island 1967 Apr p 52
water table, ground water, artesian well, piezometric surface, water cycle	weather control, climate, cloud seeding, does control of weather
resource management, runoff, ground water in water-resource	COnstitute a climatic hazard? 1950 Apr. p. 48-57
management 1950 Nov p 14-19 [818] radio divining rod, depth of water table by radio 1956 May p 59	cloud seeding, silver jodide, Project Cirrus, condensation nuclei, dry ice
watershed, forestry, nitrogen fixation, ecosystem, resource management,	1222 0411 7 11 2
runoff, erosion, deforestation, deforestation experiment	hurricane-modification experiments, hurricane-eye disruption
1970 Oct p 92–101 [1202]	1964 Dec p 27-37 cloud seeding, a business 1951 Mar p 29
Watt, steam engine, mine drainage, technology history, pumps. Industrial	weather forecasting, jet stream, long-wave forecasting
Revolution, Newcomen engine, origins of steam engine	1955 Aug p 40-44
1964 Jan p 98–107	weather satellites, Tiros, telemetry, atmospheric circulation, heat
wave acoustics, architectual acoustics, sound waves, auditoriums, sound	budget of Earth, air masses, videocameras, photographic weather
interference, sound diffraction, acoustic reverberation, effective management of sound in public buildings and dwellings	maps 1961 July p 80-94
1963 Nov p 78–92	satellite, weather satellites, meteorology, Tiros, Essa, Applications Technology Satellites, Nimbus 1969 Jan p 32-68
wave-front reconstruction, holography, laser, interferometry, lensless laser	Technology Satellites, Nimbus 1969 Jan p 52-68 long-range 1969 Nov p 62
photography 1965 June p 24–35 [300]	weather observation, radar, cloud structures 1953 July p 34-38
wave guide, fiber optics, light reflection, image transmission, physics of	weather satellites, Tiros, telemetry, atmospheric circulation, heat budget
light conduction 1960 Nov p 72–81	of Earth, air masses, videocameras, photographic weather maps
wave motion, thun-film optical devices, interferometry, fluorescence, light waves, monomolecular films, fatty acids 1970 Mar p 108-119	weather forecasting 1961 July p 80-94
waves, monomolecular films, fatty acids 1970 Mar p 108–119 wave-particle duality, electron, diffraction, interference fringes, electron	satellite, weather forecasting, meteorology, Tiros, Essa, Applications Technology Satellites, Nimbus 1969 Jan p 52-68
diffraction, Davisson-Germer experiment 1948 May p 50-53	weather ships, decommissioning 1954 Apr p 46
matter, energy levels, electromagnetic force, nuclear forces, gravitation,	weathering, sandstone, sand dune, granite, turbidity currents,
field theory, fundamental research, quantum jumps, corpuscular	stratigraphy sand origin and history from shape of grain
streams, what is matter? 1953 Sept p 52-57 [241]	1960 Apr p 94-110
philosophy of science, uncertainty principle 1958 Jan p 51–57 [212]	architecture, sculpture, erosion, marble, limestone, atmospheric pollution, preservation of stone 1978 June p 126-136 [3012]
gravitation, relativity theory, quantum mechanics, space-time continuum, uncertainty principle, PAM Dirac view of physics	weaver ants, ants, insect behavior, pheromones, social insect
1963 May p 45–53	1977 Dec p 146-134 (1373)
diffraction, light, optics, interference, electromagnetic waves, photon	weed control unsect herbwores, agricultural technology, leaf-eating
emission, introduction to single topic issue on light	beetle, Klamath weed, hving herbicides 1957 July p 30-07
1968 Sept p 50–59	agricultural technology, herbicide, mulch, tillage without plow 1977 Jan p 28-33 [1349]
wave propagation, heat, diffusion, solid state physics, thermal waves, second sound, cryogenics, phonon, helium, thermal waves in solid	enzyme weed control 1959 Mar p 69
helium 1970 May p 92–101	weeds forest ecosystem X-ray gamma radiation, white oak, atomic
waveguides, microwaves, optical properties, Maxwell's equations,	bomb test, environmental pollution, ecological effects of high energy
traveling-wave tube, klystron, magnetron, communication, radar	radiation 1903 June P 40-47 [157]
1952 Aug p 43–51	Wegener's hypothesis, continental drift, contracting-Earth theory, science history, Pangaea, plate tectonics 1975 Feb p 88-97
'weak' force, elementary particles, parity, symmetry, quantum, particle interaction, right and left-handed particles breakdown of parity	weight attempt ratio hard flight perodynamics hope structure.
1957 Apr p 45–53 [231]	respiratory air sacs, birds as flying machines 1955 Mar p 66-72
antimatter, symmetry, elementary particles, parity, particle interaction,	weightlessness, space medicine acceleration, g-forces, semicircular canals, black-out 1951 Jan p 16-19
recognition of 'fourth force' 1959 Mar p 72-84 [247]	canals, black-out 1931 Jan p 10 acceleration, human physiology, manned space flight, space medicine, 1962 Feb. p. 60-70
particle interaction, muon, electron, high-energy physics, properties of massive negative particle 1961 July p 46-55 [275]	human contribute a stress
massive negative particle 1961 July p 46-55 [275] beta decay, neutrino, particle accelerator, muon neutrino, a particle	manned hallistic flight 1961 June p 80
interaction, experiment demonstrating existence of muon neutrino	workte and magazzes new standards 1900 Mar p 3-
1963 Mar p 60-70 [324]	welding, laser, optical communication, holography, surveying, light, laser technology 1968 Sept p 140–156
particle interaction, high-energy physics, gauge theory, field theory,	and the second maintenance negative income-tax experiment,
electromagnetic force, 'strong' force 1974 July p 50-59 electromagnetic force, particle interaction, gauge theory, neutrino	work attitudes work incentives 1972 Oct p 1722
interactions, neutral-weak-current interactions	Wast Indias New World archeology, Hispaniola, stone artifacts, island
[9/4 Dec p 108-119	chains, sea routes, seafaring hunters from Central America? 1969 Nov p 42-52 [652]
gravity, electromagnetic force, 'strong' force, supergravity, symmetry,	Westmohouse Science Writing Awards, AAAS 1948 Oct p 25
quest for unified theory of basic forces 1978 Feb p 120-143 [377]	wetlands, climate, marshland, swamp, ecology, eutrophication, natural
weapons, incendiary device, SIPRI report 1976 Jan p 56 weapons, incendiary device, SIPRI report 1976 Jan p 56 weapons deposits, peat bog, archeology, organic relics, Danish history weapons deposits, peat bog, archeology, organic relics, Danish history weapons deposits, peat bog, archeology, organic relics, Danish history	turner of march effect on climate 1938 UCL D 114-122 [040]
1,55 Oct p 0. 22	pollution, ocean, mineral resources, sea water, ocean noor, physical
wear, materials technology, adhesive wear, abrasive wear, corrosion,	whale diving physiology, breathing 1949 July p 52-55
	1952 Oct p 68-70
Bailby layer, ferrograph analysis, friction, fublication, machine	gray whale, animal migration, extinction 1955 Jan p 62 66 animal communication, fish communication, crustacea, porposes
metal latigue, particles of several hearing 1975 July p 50-64	marine biology, animal sounds in the sea 1956 Apr p 93-102
bearing, lubrication, inction, journal bearing exoelectrons, Geiger counter, metal fatigue, metal-surface defects [977 Jan p 74–82 [350]	Indiane ora-est.
19// Jan p 14-02 (330)	

allosteric enzymes, myoglobin, hemoglobin, amino-acid sequence, contour maps, folding of four chains, alpha chain, beta chain	mosquitoes, sexual behavior, reproduction, eggs, larvae, Aedes Aegypti 1968 Apr p 108-116
[964 Nov p 64-76 [196]	mosquito bite, insect behavior, malaria, feeding behavior, feeding
Earth core, iron-nickel alloy, high-pressure technology,	behavior of mosquitoes 1978 June p 138-148 [1392]
crystallography, core studies by analogy, diffraction patterns of iron	extirpate Aedes Aegypti 1955 Mar p 53
alloys 1965 June p 100–108	Aedes aegypti mosquito threat 1956 Dec p 60
boron, crystal structure, crystallography 1966 July p 96-107	Yellowstone National Park, Eocene epoch, petrified wood, erosion, volcanic sediments, petrified forests of Yellowstone
Bragg's law, X-ray crystallography, atomic structure, crystal structure,	voicanic sediments, petrified forests of Tellowstone 1964 Apr p 106–114
Fourier analysis 1968 July p 58–70 [325]	Yerkes Laboratories, primate biology, chimpanzee 1955 Feb p 67-75
crystal structure, lithiasis, kidney calculi, bladder stones, gallstones,	yoga, blood pressure, human physiology, autonomic nervous system,
urmary calculi 1968 Dec p 104-111 crystal structure, metals, liquid state, physics of metals in the liquid	transcendental meditation, Zen Buddhism, physiology of meditation
	1972 Feb p 84-90 [1242]
state 1909 July p 72-82 keratin, protein structure, alpha keratin, feather keratin	Yogi, feat of endurance 1951 Mar p 30
1969 Aug p 86-96 [1155]	Yumbri, cultural anthropology, racial discrimination, genocide,
X-ray discovery, electromagnetism, electron discovery, induction coil,	Tasmanians, Yamana, vanishing primitive cultures
radio discovery, science history 1971 May p 80-87	1957 May p 39-45
X-ray lithography, electromagnetic spectrum, electron manipulation,	yurt, building construction, architecture, primitive architecture, climate,
electron storage rings, spectroscopy, synchrotron radiation, X-ray	igloo, teepee, tent, sod hut, adobe house, hogan, stilt house
probe, uses of synchrotron radiation 1977 June p 32-41 [365]	1960 Dec p 134–144
X-ray novae, transient flare-ups 1976 Feb p 54	
X-ray photography, electron beam, cold cathode, current density, field emission 1964 Jan p 108-118	ry
	Z
X-ray pictures, by xerography 1956 Mar p 57 X-ray probe, electromagnetic spectrum, electron manipulation, electron	
storage rings, spectroscopy, synchrotron radiation, X-ray	Zebu cattle, animal husbandry, cattle, dairying, European cattle, selective
hthography, uses of synchrotron radiation 1977 June p 32-41 [365]	stock breeding 1958 June p 51-59
X-ray sources, binary stars, neutron stars, black hole, pulsar, quasars, X-	Zeeman effect, magnetic field, solar magnetism, sunspots, mapping
ray astronomy 1972 July p 26-37	changes in solar magnetic field 1960 Feb p 52-62
balloon astronomy 1966 Oct p 44	antimatter, Leidenfrost phenomenon, Klein theory, high-energy
X-ray stars, black hole, binary stars, galactic energetics, globular cluster	physics, cosmology, high-energy physics and cosmology
stars, neutron stars, stellar evolution, astronomy satellites, 'bursters'	1967 Apr p 106–114 [311] Zeeman splitting, galactic magnetic field measured 1968 Nov p 56
1977 Oct p 42-55 [385] xenon, noble gas bound by hemoglobin 1965 Sept p 84	Zeeman splitting, galactic magnetic field measured 1968 Nov p 56 Zen Buddhism, blood pressure, human physiology, autonomic nervous
xenon, noble gas bound by hemoglobin 1965 Sept p 84 xerography, air pollution, corona discharge, electrocoating, fly ash.	system, transcendental meditation, yoga, physiology of meditation
electrostatics, photocopying, electrostatic precipitation and	1972 Feb p 84-90 [1242]
seperation 1972 Mar p 46-58	zenith tube, atomic clock, ammonia maser, cesium clock, maser, mercury
Xerxes, Athens, Themistocles, Salamis, Classical archeology, Battle of	mirror, improvements on sidereal time 1957 Feb p 71-82 [225]
Salamis, 480 B C, tablets deciphered 1961 Mar p 111-120	Zeno's paradox, antinomy, paradox, mathematical logic, logic, barber
xylan, algae, mannan, plant cell wall, cellulose, xylan, mannan in place of	paradox, undecidable questions, Godel's proof, Grelling's paradox,
cellulose in marine plant tissue 1968 June p 102-108 [1110]	Epimenides' paradox, paradox and foundations of logic
xylem, phloem, plants, radioautography, sap circulation, transport of	1962 Apr. p 84-96 zeolites, molecular sieves, ion exchange, adsorption, separation of similar
nutrients in plant tissue 1959 Feb p 44-49 [53] aphids, sap circulation, phloem, trees, use of aphids to measure forces	molecules 1959 Jan p 85-94
in sap flow 1963 Mar p 132–142 [154]	zero-point motion, crystal structure, helium, solid state physics, quantum
, and the same property of the	solid, solid helium, physical and theoretical properties
	1967 Aug p 84-95
\mathbf{V}	zero population growth, demographic transition, population growth,
L	world population, birth rate, gross reproduction rate, net
sacht design, marine engineering, hull design, towing tank tests, sail	reproduction rate, extrapolation from world-statistics population model 1973 Mar p 15-23 [683]
design 1966 Aug p 60-68	model 1973 Mar p 15-23 [683] demographic transition, economic development, human population,
yachting, America's Cup race, yacht design 1974 Dec p 64	population explosion, introduction to single-topic issue on the
Yamana, cultural anthropology, racial discrimination, genocide,	human population 1974 Sept p 30-39
Tasmanians, Yumbri, vanishing primitive cultures	developed countries, demographic transition, human population, birth
1957 May p 39-45	control 1974 Sept p 108-120
yarn, artificial fibers, natural fibers, spinning technology, textile fibers	zero-sum game, games theory, human conflict, probability, military
1972 Dec p 46-56 year, calendar, solar system, planetary motion, time, heliocentric theory,	strategy, use and misuse of game theory 1962 Dec p 108-118
astronomy, Copernicus, astronomy, Copernicus, length of calendar	ziggurat, Elamite culture, religion, Tower of Babel, Biblical archeology,
year 1966 Oct p 88-98	inc, trace elements, iron, manganese, copper, magnesium, iodine, human
Year of the Quiet Sun, Sun succeeds 1 6 4 1961 May p 75	nutrition 1953 Ian p. 22-25
reast, mycology, fungi, wheat rust, ergot, potato blight, morel, amanita,	sine sulfide, electric light, lighting, alternating current, technology of
Penicilium notatum, molds and men 1952 Jan p 28–32 [115]	indoor lighting 1957 Aug p 40-47 [221]
beer, enzymes, brewing, fermentation, hops, chemistry and microbiology of brewing 1959 June p 90-100	Zinjaninropus, tools of man-ape 1961 Feb p 70
baking, brewing, riboflavin synthesis, cryptococcal meningitis.	radioactive dating of toolmaker 1961 Sept p 86 potassium-argon dating 1963 Feb. p 69
fermentation, cell physiology, yeasts, useful and noxious	1707 100 0
1960 Feb v 136-144	zodiacal light, solar corona, Van Allen belts, solar prominences, solar
grape fermentation, wine, viticulture, climate, enzymes, chemical	atmosphere, tonospheric storms, Earth in the Sun's atmosphere
explanation of a good wine, role of climate	1050 Oct = 54 71
1964 Aug p 46-56 [190] Jellow fever, disease, cholera, plague, epidemiology 1953 Feb p 22-27	astrophysics, light scattering, zodiacal light and interplanetary dust
Chaga's disease, public health, 'zoonoses', parasusm, tropanosomiaese	3060 Iulia - 64 62
mataria, litariasis, leishmaniasis, plague, typhus, enidemiology.	permenda, retrinzation, partnenogenesis, progesterone, hyaluronidase
animal infection and human decision and areas of 170	1951 Mar. p 44-47 zone melting, metallurgy, crystal structure, vacuum furnace, pure metals
	foce full
	1954 July p 36-40

••

computer applications, fluid dynamics, co	Omputer modeling seding	. 2. 27	
to to t, computer grapings	1965 Mar p 104-11	at 2,378 million 1951 Ma 0 at 3,7 billion 1972 Se	yp 16
hypersonie at 32 400 m p h	1958 Apr p 5		r p 43
see also smoke tunnel	•	Barnes meory, decision meory, minimax, pure	
wind velocity, soaring, thermal cells, air curr	ents, aerodynamics,		18-83
ornithology, bird flight, flight of so iring windmills, science history, technological inne-	g birds 1962 Apr p 130-140	, cells 1969 line of the of	111111
furnace, bellows, medieval technology,	ovation, pumps, plast	ceil motifity, cell tracks, embryonic development, tubulin mitoric	C
	1930 Ann - 05 100 1557	JDD If this i all mentum on all a colling to	
control systems, feedback, water clock, the	CrimaxLit differential control	1310 Apr p 05-10	[1356]
iny can governor, origins of feedback con	ntrol 1970 Ocean tin tio	wound shock, homeostasis, body fluids, shock, emergency medicine, treatment of shock	
made a chergy resources, some energy, resu	detital beating for narmed	writing, pictograph, Vinca culture, Tartaria tablets, Romania, Sume	12-174
energy, hot water, Sun can supply most energy consumed in domestic heating	of the 30 percent of fuel	cultural diffusion, Sumerian writing 1968 May p	
wine, grape fermentation, yeast, viticulture, c	1951 Feb p 60-65	brain damage, speech, brain hemispheres, cerebral cortex, functio	nal
explanation of a good wine, role of clim.	mate, enzymes, chemical	organization of the brain 1970 Mar p 66-78	3 [526]
	1964 Aug p. 46-56 [190]	ancient trade, archeology, Elamite culture, Mesopotamian culture	1000
vintage decantation for tritium content	1953 Apr p 46	Persia, Sumer, Iran, Tepe Yahya 1971 June p 102-111 hieroglyphs, pictograph, ideographs, Mesopotamia, ongin of with	iua iu Efoon
wine cellar, in Pharaoh's tombs	1978 Alic n. 74	clay tokens 1978 June p 50-59	
wine varieties, viticulture, Mediterranean win	es, temperate-climate wines	,	
Wisconsin glaciation, plant migration, oceano	1974 June p 106-115 [1298]		
archeology, animal nugration, Bering lan	ography, New World	V	
glaciation, animal-plant migration, Asia-	North America	$\Delta \chi$	
	1962 Jan p 112-123	X-ray, microscopy, optical resolution, X-ray microscope projected	
witchweed, 2, 4-D control of witchweed	1957 Day n 61	1949 Mar p 4	11-1 7
withdrawal syndrome, drug addiction, narcotte voluntary self-injection	es, rats and monkeys,	painting, art restoration, microchemistry, spectroscopy, science in	the
morphine, drug addiction, optate-directed b	1964 Mar p 46-52 [178]	art museum 1952 July p 2	
rat	1965 Feb. p. 50-88	cancer therapy, isotopes, radiotherapy, ionizing radiation, doamet roentgenology, nuclear medicine, radiation use in medicine	13.
'wolf note, musical instruments, string instrur	nents, 'following bow'	1959 Sept p 164	-176
experiment, Raman waves, physics of box	wed string	mutation, radiation damage, high-energy radiation, nuclear medicu	ne.
women in labor force, applications to all takes	1974 Jan. p 57-95	no threshhold to biological damage by radiation	
women in labor force, employment levels, labo US economy, job creation vs job quality	1977 Nov. p. 43-51 17011	1960 Apr p 142-153 biological pest control, screw worm fly, sterilization, pest control.	1111
women in science, affirmative minority	1977 Aug p 52	cattle, eradication of the screw worm fly 1960 Oct p 5	1-61
women's aspirations, female-role ideology, sex	roles, attitude survey	forest ecosystem, gamma radiation, white oak, atomic bomb test,	
	1972 Jan p 34-42	weeds, environmental pollution, ecological effects of high-energy	1501
women's status, developed countries, labor for population		radiation 1963 June p 40-49 [[27]
wood, cellulose, lignin, cell structure, grain stru	1974 Sept p 136–147	DDT, soil pollution, herbicide, gamma radiation, soil ecology 1969 Apr. p. \$8-99 [1]	[38]
lignin, paper, aromatic compounds, chemica	l identity of elusive lignin	V-ray absorption, atomic structure, crystallographic techniques, 'extend	aea
	1958 Oct p 104-113	fine structure' effect, materials technology 1976 Apr P 30-	כטו
wood pulp, forest products, paper, cellulose, lig		X-ray astronomy, artificial satellite, orbital motion, satellite-emplaced telescope 1963 Aug. p. 28	-37
recycling, kraft process woodhenges, Neolithic archeology, henge mont	1974 Apr p 52-62	Crab Nebula, sychrotron radiation, Scorous, neutron stars, X-ray	
Stonehenge	1970 Nov p 30-38	astronomy by racket-home instruments 1964 June p 30	-15
woodroach, cockroach, endocrinology, cockroach		X-ray stars, X-ray sky 1967 Dec p 36-	→ 0
***	1951 Dec p 58-63	binary stars, neutron stars, black hole, pulsar, quasars, X-ray sources 1972 July p 26-	-37
Woods Hole, marine biology, oceanography laboratories demobilized	1949 Sept p 13-17 1948 July p 30	Years binam store dense store binary store supernovae	
words, reading, letters, pattern recognition, visu		1975 Mar p 24-	35
letters and words	978 Jan p 122–130 [122]	X-ray crystallography, proteins polypeptide chain, amino acids hydrography. ponds, alpha helix 1954 July p 51-59 [3	eu 111
work attitudes, income maintenance, negative-in	ncome-tax experiment,	bonds, alpha helix DNA, double helix, genetic code, structure of DNA resolved	
work incentives, welfare reform work incentives, income maintenance, negative-	1972 Oct p 19–25	1954 Oct p 54-011	5]
work attitudes, welfare reform	1972 Oct p 19–25	aming acide my colobin proteins alpha helix, 3-D structure of protein	13
work patterns profiles', communication, leaders	hip, social psychology,	malecule 1961 Dec p 90-11 [1-	ч
neonie in groups	1951 Feb p 20-28	lysozyme, enzyme-substrate complex protein folding amino-acid sequence, three dimensional structure and action of lysozyme	
work satisfaction, assembly lines, mass production teams, management science, 'scientific management science,' scientific management scientific ma	on, Sweden Worker	1966 Nov p 78-90 [103-)
	19/5 Mar p 17-25	crystal structure, solid-state electronics, metals, semiconductor,	
worker teams, assembly lines, mass production, S	Sweden, work	nonmetals, materials technology amorphous solid electrical conductivity 1967 Sept. p. 80-85	9
satisfaction, management science, 'scientific	management' 1975 Mar p 17-23	Bragg's Live atomic structure, crystal structure, X-ray diffraction	
world food bank, food supply, human nutrition, p	Indiana montrol	Fourier analysis 1968 July p 38-70 [323	1
human population, agricultural production	1974 Sept p 160-170	(-ray diffraction, atomic microscope, diffraction 1951 July p 56-57 solid state physics, crystal structure, ionic bonds covalent bonds,	,
		metallic bonds, molecular bonds, energy levels, the nature of solids	
	r's paradox, curvature of	1952 Dec p 39-49 [249]	
space, red shift, galactic evolution, evolution	1954 Mar p 54-63	polymers, elastomers molecular structure, mechanical properties of	
formation, genesis world population, Malthusian doctrine economic	development	The same and the s	
		influenza virus, vaccinia virus tobacco mosaic virus bacteriopnage,	
demographic transition, population growth, zer birth rate, gross reproduction rate, net repro-		structure of viruses 1963 Jan p 48-56 concrete, Portland cement, hydration, cement, chemistry of concrete	
extrapolation from world-statistics population	n model 973 Mar p 15–23 [683]	concrete, Portland cement, hydration, cement, eleminary of concrete.	

SCIENTIFIC AMERICAN

Listing of Tables of Contents

1948

May: The future of the amazon, Peter van Diesser, p 11, the man apes of south africa, Wilton M Krogman, p 16, concerning 'social physics', John Q Stewart, p 20, vesalius, Martin Gumpert, p 24, the dust cloud hypothesis, Fred L Whipple, p 34, the luminescence of living things, E Newton Harvey, p 46, davisson and germer, Karl K. Darrow, p 50, smelting under pressure, Leonard Engel, p 54

June: THE NATIONAL SCIENCE FOUNDATION, Alfred W Jones, p 7, HISTOPLASMOSIS, MARTIN Gumpert, p 12, THE ARMY ANT, Theodore C Schneirla and Gerard Piel, p 16, THE ULTIMATE PARTICLES, George W Gray, p 26, THE BIOLOGY OF OLD AGE, Florence Moog, p 40, IF A SLAVE GIRL FLED ", Francis R. Steele, p 44, WHITE PINE, Donald Culross Peattie, p 48, SRINIVASA RAMANUJAN, James R. Newman, p 54

July: RECOVERY OF EUROPE, p 9, ANTIQUITY OF MODERN MAN, LOREN C Eiseley, p 16, GALAXIES IN FLIGHT, GEORGE GAMOW, p 20, ALLERGY A DEFINITION, Bela Schick, p 26, Physics and Music, Frederick A Saunders, p 32, Insect vision, Lorus J and Margery J Milne, p 42, the beginnings of coal, Raymond E Janssen, p 46, the philips air engine, Leonard Engel, p 52

August: The dust storms of 1948, H H Finnell, p 7, a night on Palomar, Albert G Ingalls, p 12, the language of the bees, August Krogh, p 18, photosynthesis, Eugene I Rabinowitch, p 24, in defense of benjamin franklin, I Bernard Cohen, p 36, high blood pressure, Irvin H Page, p 44, measurement by mercury, William F Meggers, p 48, Mathematical creation, James R. Newman, p 54

September: MIDDLE EAST OIL, F Julius Fohs, p 9, RADIO WAVES AND MATTER, Harry M Davis, p 16, Primitive Medicine, Elizabeth A Ferguson, p 24, the Genes of Men and Molds, George W Beadle, p 30, SHAGBARK HICKORY, Donald Culross Peatue, p 40, the Dynamics of Inhibition, Ralph W Gerard, p 44, HOW NICE TO BE A PHYSICIST", Arthur Roberts, p 50, the transistor, Frank H Rockett, p 52

October: The bingham plan, Leonard Engel, p. 7, long range forces, Thaddeus Stern, p. 14, world saccelerators, p. 18, a new theory of tooth decay, Bernhard Gottlieb, p. 20, "The Great ravelled knot", George W. Gray, p. 26, origin of the ice, George Gamow, p. 40, right Hand Left Hand, Lorus J. and Margery J. Milne, p. 46, the chemistry of silicones, Eugene G. Rochow, p. 50

Notember: Labrador Iron, Herbert Yahraes, p. 9, Cybernetics, Norbert Wiener, p. 14, spruce, balsam and birch, Donald Culross Peattie, p. 20, the sun, Armin J. Deutsch, p. 26, erosion by raindrop, W. D. Ellison, p. 40, bacterial viruses and sex, Max and Mary Delbrück, p. 46, Gulliver was a bad biologist, Florence Moog, p. 52

December: PUBLIC OFINION POLLS, Rensis Likert, p 7, A CRISIS IN U.S. ARCHAEOLOGY. Front II II Dobard at 12 2000 11 2000 OF BIRDS,

Donald R Griffin, p 18, enzymes, John E Pfeiffer, p 28, on the development of cancer, Harry S N Greene, p 40, stone age mathematics, Dirk J Struik, p 44, alcoholics and metabolism, Roger J Williams, p 50

1949

January: Cancer and environment, Groff Conklin, p 11, the arrival of acetylene, Herbert Yahraes, p 16, the oepidus myth, Erich Fromm, p 22, the upper atmosphere, David I Blumenstock, p 30, the invention of analytic geometry, Carl B Boyer, p 40, mapping mount mckinley, Bradford Washburn, p 46, the record of human illness, Wilton M Krogman, p 52

February: The office of Naval Research, John E Pfeisfer, p 11, trial by Newspaper, Joseph T Klapper and Charles Y Glock, p 16, the Mechanism of Lightning, Leonard B Loeb, p 22, tracers, Martin D Kamer, p 30, microseisms, L Don Leet, p 42, temperature and life, Lorus J and Margery J Milne, p 46, three mysteries of easter island, Werner Wolff, p 50

March: IS THE BOMB AN ABSOLUTE WEAPON?, P. M. S. Blackett, p. 13, A. U.S. PHYSICIST'S REPLY TO BLACKETT, LOUIS N. RIDENOUT, p. 16, THE ALARM REACTION, P. C. CONSTAINTINGES AND NILL CATERY, p. 20, COSMIC RAYS, George W. Gray, p. 28, THE ANCESTORS OF MAMMALS, Edwin H. Colbert, p. 40, THEX RAY MICROSCOPE, Paul Kirkpatrick, p. 44, CHEMICAL WARFARE AMONG THE PLANTS, James Bonner, p. 48, THE INFLUENCE OF ALBERT EINSTEIN, Banesh Hoffman, p. 52

April: Social Medicine, Brock Chisholm, p 11, the Aec's Isotopes, p 16, aureomycin, Leo and Dora S Rane, p 18, mathematical machines, Harry M Davis, p 28, submarine canyons, Francis P Shepard, p 40, greek astronomy, George de Santillana, p 44, titanium a new metal, George A W Bochm, p 48, the evolution of sex, Paul A Zahl, p 52

May: A STUDY OF ATTITUDES, Samuel A Stouffer, p 11, PAULING AND BEADLE, George W Gray, p 16, The theory of games, Oskar Morgenstern, p 22, Rockets, Willy Ley, p 30, Plant Hormones, Victor Schocken, p 40, The nature of Dreams, Erich Fromm, p 44, Living Records of the Ice age, Edward S Deevey, Jr., p 48, The athabaska tar sands, Karl A Clark, p 52

June: NATIONAL HEALTH INSURANCE, Michael M Davis, p 11, THE BLISTER HYPOTHESIS, C W Wolfe, p 16, MUSCLE RESEARCH, A. SZENT-GYORGY, p 22, LOW TEMPERATURE PHYSICS, HAITY M DAVIS, p 30, ANCIENT SLAVERY, William Linn Westermann, p 40, THE SOCIAL AMOEBAE, John Tyler Bonner, p 44, TRAPPED LIGHT, p 48, THE PREVENTION OF MURDER, Frederic Wertham, p 50

zone refining Index to Topics

materials technology, zone refining, distribution	coefficient,
germanium, silicon, single crystals purified	1967 Dec. p. 62-72
9,999n pure	1954 Apr. p. 49
zone refinling, materials technology, zone melting, o	listribution coefficient,
germanium, silicon, single crystals purified	1967 Dec. p. 62-72
zoology, botany, taxonomy, set theory, computer a	pplications, numerical
taxonomy, computer classification of living th	ings
1966	Dec. p. 106-116 [1059]
'zoonoses', Chaga's disease, public health, parasitis	m, trypanosomiasis,

'zoonoses', Chaga's disease, public health, parasitism, trypanosomiasis, malaria, filariasis, leishmaniasis, plague, yellow fever, typhus, epidemiology, animal infection and human disease

1960 May p. 161–170

zooplankton food, organic aggregates in suspension 1963 Nov. p. 60

zoos, animal behavior, captivity

Zulu culture, stress correlated with change

Zulu peoples, social psychology, war, social anthropology, short-lived
empire of Zulu chief Shaka

Zunis, social values, Mormons, Spanish-Americans, agricultural sstem,
Navaho, comparative study of cultures in New Mexico
1956 July p. 25-31

zygote, cell differentiation, tissue specialization, 'lampbrush'
chromosome, embryonic development, fertilization, ovum, clone,
cytology, how cells specialize

1961 Sept. p. 124-140

hydrolysis, enzymes, structure and function of protein-digesting

1964 Dec. p. 68-79

zymogen, proteins, peptide bond, trypsin, proteolytic enzymes,

enzymes

April: The Census, Philip M Hauser, p 15, paradoxes of the mississippi, Gerard H Matthes, p 18, the sutton hoo ship burial, R. L. S. Bruce-Mitford, p 24, reactors, Lawrence R. Hafstad, p 43, shakespeare the physicist, Banesh Hoffmann, p 52, cataclysmic evolution, G. Ledyard Stebbins, Jr., p 54, the imitative drugs, Richard O. Roblin, Jr., p 60, the squid, H. B. Steinbach, p 64

May: THE EARTH S URANIUM, Paul F Kerr, p 17, REVIVAL BY LIGHT, Albert Kelner, p 22, HEAVY ELEMENTS FROM SPACE, Edward P Ney, p 26, VIRUSES, F M BURNET, p 43, MUSICAL TONES, Hugh Lineback, p 52, THE HEAT PUMP, John F Sandfort, p 54, WHAT PEOPLE DREAM ABOUT, Calvin S Hall, p 60, THE CANADIAN METEOR CRATER, V B Meen, p 64

June: An Analysis of Television Programs, Dallas W Smythe, p 15, zirconium, Stephen M Shelton, p 18, meteors, Fletcher G Watson, p 22, the ultracentrifuge, George W Gray, p 42, the fertilization of Flowers, Verne Grant, p 52, moving the obelisk, Bern Dibner, p 58, calcium and life, L V Heilbrunn, p 60, animal intelligence, Carl J Warden, p 64

July: The origins of U s scientists, H B Goodfich et al, p 15, artificial respiration, Stefan Jellinek, p 18, comets, Fred L Whipple, p 22, synthetic fibers, Simon Williams, p 37, the peoples of pine Lawn valley, Paul S Martin, p 46, the theory of numbers, Paul S Herwitz, p 52, atomic microscope, p 56, the blood relationships of animals, Alan A Boyden, p 59

August. A revolution in electronics, Louis N Ridenour, p 13, the lost cities of peru, Richard P Schaedel, p 18, the deep sea layer of life, Lionel A Walford, p 24, hybrid corn, Paul C Mangelsdorf, p 39, heart muscle, p 48, experiments in perception, W H Ittelson and F P Kilpatnick, p 50, sickle cell anemia, George W Gray, p 56, a machine that learns, W Grey Walter, p 60

September: FOPULATION, Frank W Notestein, p 28, LABOR FORCE, Ewan Clague, p 36, INTELLECTUAL RESOURCES, Dael Wolfle, p 42, ENGINEERS, Karl T Compton, p 65, SCIENTISTS, M H Trytten, p 71, DOCTORS, Alan Gregg, p 79, MOBILIZATION, Arthur S Flemming, p 89, YOUTH, George D Stoddard, p 101

October. Input output economics, Wassily W Leontief, p 15, the State of Genetics, A Buzzati-Traverso, p 22, synthetic detergents, L M Kushner and James I Hoffman, p 26, the neutron, Philip and Emily Mortison, p 44, radiation from a reactor, W H Jordan, p 54, ernest starling, Ralph Colp, Jr, p 56, halloween, Ralph Linton, p 62, life in the depths of a pond, Edward S Deevey, Jr, p 68

November: NATURAL GAS, James J Parsons, p 17, Rh AND THE RACES OF MAN, William C Boyd, p 22, THE RARE EARTHS, Frank H Spedding, p 26, VOLCANOES, Howel Williams, p 45, SUMERIAN "FARMER'S ALMANAC", Samuel Noah Kramer, p 54, INSECTS IN AMBER, Charles T Brues, p 56, SURGICAL CUTTING, SIR Heneage Ogilvie, p 62, Purple BACTERIA, Roderick K Clayton and Max Delbruck, p 68

December: Solar Flares, John W Evans, p 17, the lethal effects of radiation, Edward Spoerl, p 22, how to teach animals, B F Skinner, p 26, norway reactor, p 30, electrophoresis, George W Gray, p 45, the scars of human evolution, Wilton M Krogman, p 54, the woodproach, Berla Scharfer, p 58, weather instruments, David I Blumenstock, p 64

1952

January: CLOUD SEEDING, Bernard Vonnegut, p. 17, THE MULTIPLICITY OF PARTICLES, ROBERT E. Marshak, p. 22, MOLDS AND MEN, Ralph Emerson, p. 28, THE GEOGRAPHY OF STEEL, George H. T. Kimble, p. 44, TREE RINGS AND SUNSPOTS, J. H. Rush, p. 54, STATISTICS, Warten Weaver, p. 60, ANIMALS BY AUDUBON, p. 64, FATHER OF AVIATION MEDICINE, J. M. D. Olmsted, p. 66

February: OIL FROM SHALE, H. M. Thorne, p. 15, FLIGHT AT THE BORDERS OF SPACE, Heinz Haber, p. 20, RADIOCARBON DATING, Edward S. Deevey, Jr., p. 24, THE UNIVERSE FROM PALOMAR, George W. Gray, p. 43, FROSTBITE, Emlen T. Littell, p. 52, SOAP MICROGRAPHS, p. 58, MONGOLISM, Theodore H. Ingalls, p. 60, MANS GENETIC FUTURIL, Curt Stern, p. 68

March Stream Pollution, Rolf Eliassen, p 17, Mound Builders of the Mississippi, James A Ford, p 22, smell and taste, A J Haagen-Smit, p 28, the quantum theory, Karl K Darrow, p 47, measuring starlight by Photocell, Joel Stebbins, p 56, maxwell s Poetry, I Bernhard Cohen, p 62, how animals change color, Lorus J and Margery J Milne, p 64, logic machines, Martin Gardner, p 68

April: The Pacific Floor, Robert S Dietz, p 19, bird aerodynamics, John H Storer, p 24, schizophrenic art a case study, Bruno Bettelheim, p 30, the progress of antibiotics, Kenneth B Raper, p 49, on transplanting nuclei, J F Danielli, p 58, charles babbage, Philip and Emily Mortison, p 66, volcanoes and world climate, Harry Wexler, p 74, natural selection in language, Joshua Whatmough, p 82

May: SMOG, A M Zarem and W E Rand, p 15, A STONE AGE HUNTERS CAMP, Grahame Clark, p 20, ELECTRICITY IN SPACE, Hannes Alfvén, p 26, SHERRINGTON ON THE EYE, p 30, THE CONTROL OF FLOWERING, Aubrey W Naylor, p 49, A NEW MICROSCOPE, Erwin W Muller, p 58, INHERITED SENSE DEFECTS, H Kalmus, p 64, THE CORIOLIS EFFECT, James E McDonald, p 72

June: THE USES OF FISSION PRODUCTS, Paul J Lovewell, p 19, THE ERADICATION OF MALARIA, Paul F Russell, p 22, TURBULENCE IN SPACE, George Gamow, p 26, RULING ENGINES, Albert G Ingalls, p 45, WILLIAM HARVEY, Frederick G Kilgour, p 56, Airport Radar, p 64, Plant Cancer, Armin C Braun, p 66, THE HISTORY OF A RIVER, Raymond E Janssen, p 74

July: AMERICA S OLDEST ROADS, VICTOR W VON Hagen, p 17, SCIENCE IN THE ART MUSEUM, Rutherford J Gettens, p 22, THE JUNCTION TRANSISTOR, Morgan Sparks, p 28, THE SOUTHERN SKY, BART J BOK, p 46, LETHAL HEREDITY, Willard F Hollander, p 58, ATOMIC PILE CHEMISTRY, John F Flagg and Edwin L Zebroski, p 62, ANIMALS OF THE BOTTOM, Henry G Vevers, p 68, THE UMBILICAL CORD, Samuel R M Reynolds, p 70

August. Chemical agriculture, Francis Joseph Weiss, p 15, the spider and the wasp, Alexander Petrunkevitch, p 20, the rhind papyrus, James R. Newman, p 24, asthma, William Kaufman, p 28, microwaves, J R. Pierce, p 43, running records, M H Lietzke, p 52, on the origin of glaciers, Charles R. Warten, p 57, d arcy thompson, John Tyler Bonner, p 60

September. Automatic control, Ernest Nagel, p 44, Feedback, Arnold Tustin, p 48, control systems, Gordon S Brown and Donald P Campbell, p 56, an automatic chemical plant, Eugene Ayres, p 82, an automatic machine tool, William Pease, p 101, the role of the computer, Louis N Ridenour, p 116, information, Gilbert W King, p 132, machines and man, Wassily Leontief, p 150

October: Insects v insecticides, Robert L Metcalf, p 21, the jet stream, Jerome Namias, p 26, the diphtheria toxin, A M Pappenheimer, Jr, p 32, the origin of the Earth, Harold C Urey, p 53, from Cave to village, Robert J Braidwood, p 62, whale cardiogram, p 68, alchemy and alchemists, John Read, p 72, the rise of water in plants, Victor A Greulach, p 78

November. A PSYCHOLOGIST EXAMINES 64 SCIENTISTS, Anne Roe, p 21, A NEW ERA IN POLIO RESEARCH, Joseph L Melnick, p 26, PHOTOGRAPHIC DEVELOPMENT, T H James, p 30, SLEEP, Nathaniel Kleitman, p 34, THE NERVE IMPULSE, Bernhard Katz, p 55, "CLIENT CENTERED THERAPY, Carl R. Rogers, p 66, IS THERE AN INFINITY?, Hans Hahn, p 76

December: The useful algae, Francis Joseph Weiss, p 15, artificial muscle, Teru Hayashi and George A W Boehm, p 18, the behavior of the stickleback, N Timbergen, p 22, the nature of solids, Gregory H Wannier, p 39, the influence of the potato, Redcliffe N Salaman, p 50, the breeder reactor, p 58, traumatic shock, Jacob Fine, p 62, arroyos, Sheldon Judson, p 71

1953

January: RADIO STARS, A. C. B. LOVEII, p. 17, TRACE ELEMENTS, W. D. McElroy and C. P. Swanson, p. 22, THE OLDEST LAWS, Samuel Noah Kramer, p. 26, THE KIDNEY, Homer W. Smith, p. 40, CRYSTALS AND THE

July: THE MATHEMATICS OF COMMUNICATION, Warren Weaver, p. 11; ALLERGIC MECHANISMS IN NERVOUS DISEASE, E. A. Kabat, p. 16; THE CRATERS OF THE MOON, Ralph B. Baldwin, p. 20; THE ATOMIC ENERGY COMMISSION, Leon Svirsky, p. 30; SCHIZOPHRENIA AND STRESS, Hudson Hoagland, p. 44; LOUIS AGASSIZ, Alfred Sherwood Romer, p. 48; THE PHYSIOLOGY OF WHALES, Cecil K. Drinker, p. 52.

August: The Personality of Peoples, Ralph Linton, p. 11; Potassium, Wallace O. Fenn, p. 16; Hittitecitabel, p. 22; The antibiotics, George W. Gray, p. 26; Learning to Think, Harry F. and Margaret Kuenne Harlow, p. 36; Galileo, Bernard Cohen, p. 40; Radioactivity and time, p. M. Hurley, p. 48; Seeing Light and Color, Ralph M. Evans, p. 52.

September: woods hole in 1949, John E. Pfeisser, p. 13; encephalitis, William McD. Hammon, p. 18; infant speech, Orvis C. Irwin, p. 22; Radio astronomy, Grote Reber, p. 34; psychiatric films, p. 42; payloy, Jerzy Konorski, p. 44; enzymes in teams, David E. Green, p. 48; the plants of krakatoa, F. W. Went, p. 52.

October: VISIT TO DUBLIN, Leopold Infeld, p. 11; FOOD FROM THE SEA, Gordon A. Riley, p. 16; BOMB TESTS, p. 20; LEAF SHAPE, Eric Ashby, p. 22; TUBERCULOSIS, René J. Dubos, p. 30; DOUBLE STARS, Otto Struve, p. 42; PHENOCOPIES, Richard B. Goldschmidt, p. 46; FREUD NOW, Frederic Wertham, p. 50.

November: ARMS RACE V. CONTROL, Chester I. Barnard, p. 11; SHOCK WAVES, Otto Laporte, p. 14; The APE-MEN, Robert Broom, p. 20; FIVE HISTORIC PHOTOGRAPHS FROM PALOMAR, E. P. Hubble, p. 32; VISIT TO ENGELAND, Leopold Infeld, p. 40; FLUOROCARBONS, J. H. Simons, p. 44; DEMOCRITUS ON THE ATOM, p. 48; NATURAL HISTORY OF A VIRUS, Philip and Emily Morrison, p. 50.

December: The nobel prizes, George W. Gray, p. 11; supernovae, George Gamow, p. 18; transformed cells, S. Meryl Rose, p. 22; the fuel problem, Eugene Ayres, p. 32; visit to poland, Leopold Infeld, p. 40; ocean's floor, p. 44; crystals and electricity, Walter G. Cady, p. 46.

1950

January: UN V. MASS DESTRUCTION, Trygve Lie, p. 11; HEART SURGERY, Frank G. Slaughter, p. 14; TOPOLOGY, Albert W. Tucker and Herbert S. Bailey, Jr., p. 18; THE GENETIC BASIS OF EVOLUTION, Theodosius Dobzhansky, p. 32; THE ENERGY OF STARS, Robert E. Marshak, p. 42; "NATURE", p. 46; THE AMERICAN LANGUAGES, Hans Kurath, p. 48; PLAYING POSSUM, Carl G. Hartman, p. 52.

February: Population, Warren S. Thompson, p. 11; High Compression, Alex Taub, p. 16; Infant vision, Arnold Gesell, p. 20; The Milky Way, Bart J. Bok, p. 30; Animal Electricity, H. B. Steinbach, p. 40; PREFRONTAL LOBOTOMY, Kurt Goldstein, p. 44; A CHESS-PLAYING MACHINE, Claude E. Shannon, p. 48; UP FROM THE EMBRYO, Florence Moog, p. 52.

March: The hydrogen bomb, Louis N. Ridenour, p. 11; point four, Stephen Raushenbush, p. 16; blood pigments, H. Munto Fox, p. 20; cortisone and acth, George W. Gray, p. 30; experimental neuroses, Jules H. Masserman, p. 38; hot atom chemistry, Willard F. Libby, p. 44; plant tissue cultures, Philip R. White, p. 48; obstetrical labor, Samuel R. M. Reynolds, p. 52.

April: ON THE GENERALIZED THEORY, Albert Einstein, p. 13; THE HYDROGEN BOMB: II, Hans A. Bethe, p. 18; THE METAMORPHOSIS OF INSECTS, Carroll M. Williams, p. 24; THE SYNTHETIC ELEMENTS, I. Perlman and G. T. Seaborg, p. 38; THE CHANGING CLIMATE, George H. T. Kimble, p. 48; "SOCIAL INSTINCTS", Ashley Montagu, p. 54; THE PROBABILITY OF DEATH, Edward S. Deevey, Jr., p. 58.

May: THE HYDROGEN BOMB: III, Robert F. Bacher, p. 11; MALE FERTILITY, Edmond J. Fartis, p. 16; HIGH VACUUM, Philip and Emily Morrison, p. 20; THE CRUST OF THE EARTH, Walter H. Bucher, p. 32; AN INITATION OF LIFE, W. Grey Walter, p. 42; FROG CALLS, Ralph K. Potter, p. 46; ARISTOTLE'S PHYSICS, Carl B. Boyer, p. 48; VOLVOX: A COLONY OF CELLS, John Tyler Bonner, p. 52.

June: The hydrogen bomb: IV, Ralph E. Lapp, p. 11; genetic monstles, L. C. Dunn, p. 16; the earth-smagnetism, A. E. Benfield, p. 20; eroteins, Joseph S. Ffuion, p. 32; the great meteor of 1917, Olio Struve, p. 42; coronary thrombosis, Paul D. White, p. 44; lifeofa thunderstorm, Roscoe R. Beaham, Jr., p. 48; gas from the mine, Leonard Engel, p. 52.

July: THE NEW SCIENCE FOUNDATION, M. H. Trytten, p. 11; ARRESTED VISION, Austin H. Riesen, p. 16; THE MYSTERY OF CORN, Paul C. Mangelsdorf, p. 20; SOIL, Charles E. Kellogg, p. 30; COUNTERS, Serge A. Korff, p. 40; GENETICS AND CANCER, Leonell C. Strong, p. 44; THELIMITS OF MEASUREMENT, R. Furth, p. 48; ANIMAL COURTSHIP, LOTUS J. and Margery J. Milne, p. 52.

August: The Food Problem, Lord John Boyd-Off, p. 11; Power From The Sun, Eugene Ayres, p. 16; The Paralytic Plague, David Bodian, p. 22; Eye and Camera, George Wald, p. 32; Exploring the Ocean Floor, Hans Petiersson, p. 42; The Agora, Homer A. Thompson, p. 46; The Navigation of Bats, Donald R. Griffin, p. 52.

September: THE AGE OF SCIENCE: 1900-1950, J. R. Oppenheimer, p. 20; ASTRONOMY, Harlow Shapley, p. 24; Physics, Max Born, p. 28; CHEMISTRY, Linus Pauling, p. 32; GEOLOGY, Reginald A. Daly, p. 36; MATHEMATICS, Sir Edmund Whittaker, p. 40; GENETICS, Theodosius Dobzhansky, p. 55; BIOCHEMISTRY, Otto Meyerhof, p. 62; Physiology, E. D. Adrian, p. 71; PSYCHOLOGY, Hadley Cantril, p. 79; ANTHROPOLOGY, A. L. Koeber, p. 87.

October: PREJUDICE, Bruno Bettelheim and Morris Janowitz, p. 11; THE ABUNDANCE OF THE ELEMENTS, Armin J. Deutsch, p. 14; THE PITUTARY, Choh Hao Li, p. 18; ELECTRONICS, J. R. Pierce, p. 30; AUTUMN COLORS, Kenneth V. Thimann, p. 40; PROBABILITY, Warren Weaver, p. 44; MICROSURGERY, M. J. KOPAC, p. 48; THE KUANYAMA AMBO, Edwin M. Loeb, p. 52.

November: Votes in the Making, Paul F. Lazarsfeld, p. 11; ground water, A. N. Sayre, p. 14; "spinal" cats walk, P. S. Shurager, p. 20; partner of the genes, T. M. Sonneborn, p. 30; simple simon, Edmund C. Berkeley, p. 40; surgical stitching, Sir Heneage Ogilvie, p. 44; ion exchange, Harold F. Walton, p. 48; is man here to stay?, Loien C. Eiseley, p. 52.

December: COLOR TELEVISION, Newbern Smith, p. 13; HIBERNATION, Charles P. Lyman and Paul O. Chatfield, p. 18; SYMBOLIC LOGIC, John E. Pfeiffer, p. 22; THE BIG SCHMIDT, Albert G. Wilson, p. 34; GROUP PSYCHOTHERAPY, S. R. Slavson, p. 42; FERTILIZATION OF THE EGG, Alberto Monroy, p. 46; FINE PARTICLES, Clyde Ort, Jr., p. 50; THE EARTH'S HEAT, A. E. Benfield, p. 54.

1951

January: HOW MAN CAME TO NORTH AMERICA, Ralph Solecki, p. 11; THE HUMAN BODY IN SPACE, Heinz Haber, p. 16; FLAGELLA, W. T. Astbury, p. 20; THE ECONOMICS OF ATOMIC POWER, Sam H. Schurr, p. 32; pH, Duncan A. MacInnes, p. 40; RED DOG, BLACKJACK AND POKER, R. Bellman and

D. Blackwell, p. 44; an explanation of twins, Gunnar Dahlberg, p. 48; the eelgrass catastrophe, Lorus J. and Margery J. Milne, p. 52.

February: THE EARLY AMERICANS, Frank H. H. Roberts, p. 15; THE BEVATRON, Lloyd Smith, p. 20; PEOPLE IN GROUPS, David B. Hertz and Sandra Lloyd Lesser, p. 26; THE COMMON COLD, Christopher Howard Andrewes, p. 39; GEORGII AGRICOLAE DE RE METALLICA, p. 46; WHITE BLOOD CELLS V. BACTERIA, W. BAITY WOOD, Jr., p. 48; FRICTION, Frederic Palmer, p. 54; WINDOWS, Eugene Ayres, p. 60.

March: OPERATIONS RESEARCH, HORACE Levinson and Arthur Brown, p. 15; THE CONTROL OF BLOOD CLOTS, Shepard Shapiro, p. 18; THE STRUCTURE OF THE NUCLEUS, Maria G. Mayer, p. 22; CHROMATOGRAPHY, William H. Stein and Stanford Moore, p. 35; THE HORN OF THE UNICORN, John Tyler Bonner, p. 42; FERTILIZATION IN MAMMALS, Gregory Pincus, p. 44; COLOR BLINDNESS, Alphonse Chapanis, p. 48; WARM CLOTHES, M. E. Barker, p. 56.

October: Economic Psychology, George Katona, p. 31; Uranium From Coal, Ralph L. Miller and James R. Gill, p. 36; The Linear accelerator, Wolfgang Panofsky, p. 40; The Structure of the Hereditary Material, F. H. C. Crick, p. 54; Phosphors, J. S. Prener and D. B. Sullenger, p. 62; Priestley, Mitchell Wilson, p. 68; The Sun Navigation of Animals, Hans Kalmus, p. 74; The Biology of the Negro, Curt Stern, p. 80.

November: The atomic energy act of 1954, David F. Cavers, p. 31; the origin of meteorites, S. Fred Singer, p. 36; the courtship of animals, N. Tinbergen, p. 42; bridges, David B. Steinman, p. 60; how antibodies are made, Sir Macfarlane Burnet, p. 74; the curvature of space, P. Le Corbeiller, p. 80; suicide, Don D. Jackson, p. 88; trade in the ancient world, Lionel Casson, p. 98.

December: Power Reactors, Alvin M. Weinberg, p. 33; ICE ISLANDS IN THE ARCTIC, Kaare Rodahl, p. 40; Kwashiorkor, Hugh C. Trowell, p. 46; The Physics of Viruses, Etnest C. Pollard, p. 62; Mycenae, City of Agamemnon, George E. Mylonas, p. 72; Spider Webs and Drugs, Peter N. Witt, p. 80; The Ultimate Atom, H. C. Corben and S. DeBenedetti, p. 88; Robert Hooke, E. N. da C. Andrade, p. 94.

1955

January: Are scientists defferent?, Lewis M. Terman, p. 25; the anatomy of the atlantic, Henry Stommel, p. 30; helicopters, Lawrence P. Lessing, p. 36; steroids, Louis F. Fieser, p. 52; the return of the gray whale, Raymond M. Gilmore, p. 62; magnetic materials, Richard M. Bozorth, p. 68; rickettsiae, Marianna R. Bovarnick, p. 74; projective geometry, Mortis Kline, p. 80.

February: The anti-scientific attitude, Bernard and Judith Mausner, p. 35; Corpuscles from the sun, Walter Ott Roberts, p. 40; the bubble chamber, Donald A. Glaser, p. 46; the yerkes laboratories, George W. Gray, p. 67; Game theory and decisions, Leonid Hurwicz, p. 78; Bone, Franklin C. McLean, p. 84; ears for computers, Edward E. David, Jr., p. 92; Plant Movements, Victor A. Greulach, p. 100.

March: How People Interact in Conferences, Robert F. Bales, p. 31; RADIO TELESCOPES, John D. Kraus, p. 36; THE CURTAIN WALL, James Marston Fitch, p. 44; UNKNOWN VIRUSES, George W. Gray, p. 60; THE GROWTH OF CRYSTALS, Robert L. Fullman, p. 74; THE CONTINENTAL SHELF, Henry C. Stetson, p. 82; BIRDS AS FLYING MACHINES, Carl Welty, p. 88; HISTORY OF A DIG, LOUIS M. Stumer, p. 98.

April: Cooperation in Nuclear Power, D. J. Hughes, p. 31; the Sea Lamprey, Vernon C. Applegate and James W. Mosfet, p. 36; vaccines for Poliomyelitis, Jonas E. Salk, p. 42; man viewed as a machine, John G. Kemeny, p. 58; the ecology of desert plants, Fris W. Went, p. 68; the origin of granite, O. Frank Tuttle, p. 77; the anthropology of Manners, Edward T. Hall, Jr., p. 84; the T2 Mystery, Salvador E. Luria, p. 92.

May: SECOND THOUGHTS ON THE GERM THEORY, René J. Dubos, p. 31; THE INSULIN MOLECULE, E. O. P. Thompson, p. 36; THE SPIRAL STRUCTURE OF THE GALAXY, W. W. Morgan, p. 42; AIR POLLUTION, Frits W. Went, p. 62; THE PHSYSIOLOGY OF FEAR AND ANGER, Daniel H. Funkenstein, p. 74; THE DEATH OF A CIVILIZATION, Tatiana Proskouriakoff, p. 82; THE MONTE CARLO METHOD, Daniel D. McCracken, p. 90; LIFE IN CAVES, Brother G. Nicholas, F.S.C., p. 98.

June: ALBERT EINSTEIN 1879-1955, Niels Bohr and I. I. Rabi, p. 31; EXPERIMENTAL PSYCHOSES, Boston Psychopathic Hospital, p. 34; RADIO WAVES FROM THE SUN, J. P. Wild, p. 40; JAMES CLERK MAXWELL, James R. Newman, p. 58; LEARNING IN THE CANARY, Nicholas Pastore, p. 72; ANTIBIOTICS AGAINST PLANT DISEASES, David Pramer, p. 82; COMPUTER MEMORIES, Louis N. Ridenour, p. 92; THE GERM OF TUBERCULOSIS, ESMOND R. Long, p. 102.

July: INDUSTRIAL PRODUCTIVITY, Seymour Melman, p. 33; FRACTURES IN THE PACIFIC FLOOR, Henry W. Menard, p. 36; A FORGOTTEN NATION IN TURKLY, Seton Lloyd, p. 42; COAL, Lawrence P. Lessing, p. 58; AN INTERVIEW WITH EINSTEIN, I. Bernard Cohen, p. 68; THE MUTATION OF VIRUSES, C. A. Knight and Dean Fraser, p. 74; DISLOCATIONS IN METALS,

Frank B. Cuff, Jr., and L. McD. Schetky, p. 80; POLARIZED LIGHT AND NAVIGATION, Talbot H. Waterman, p. 88.

August: Manufacture of Electronic Equipment, Lawrence P. Lessing, p. 29; Radioactive Poisons, Jack Schubert, p. 34; Long-Range Weather Forecasting, Jerome Namia's, p. 40; The Honeybee, Ronald Ribbands, p. 52; The Speed of Light, J. H. Rush, p. 62; Placebos, Louis Lasagna, p. 68; The Homing Salmon, Arthur D. Hasler and James A. Larsen, p. 72; The Changing American Language, Jotham Johnson, p. 78.

September: The voyage of the Atka, Paul A. Humphrey, p. 50; the interior of the earth, K. E. Bullen, p. 56; the origin of continents, Marshall Kay, p. 62; glaciers, William O. Field, p. 84; the circulation of the oceans, Walter H. Munk, p. 96; the earth from space, p. 109; the circulation of the atmosphere, Harry Wever, p. 114; the ionosphere, T. N. Gautier, p. 126; aurora and airglow, C. T. Elvey and Franklin E. Roach, p. 140; the earth's magnetism, S. K. Runcorn, p. 152; the earth's gravity, Weikko A. Heiskanen, p. 164.

October: The Geneva Conference, Robert A. Charpie, p. 27; Geneva: Chemistry, J. M. Fletcher and F. Hudswell, p. 34; Geneva: Biology, C. A. Mawson, p. 38; Geneva: Reactors, Robert A. Charpie, p. 56; Information transfer in the Living Cell, George Gamow, p. 70; the New Psychiatric drugs, Harold E. Himwich, p. 80; Nocturnal animals, H. N. Southern, p. 88; Maupertuis, a forgotten Genius, H. Bentley Glass, p. 100.

November: Opinions and Social Pressure, Solomon E. Asch, p. 31; The Trenches of the Pacific, Robert L. Fisher and Roger Revelle, p. 36; Synthetic Diamonds, P. W. Bridgman, p. 42; Radiation and Human mutation, H. J. Muller, p. 58; "Empty" Space, H. C. van de Hulst, p. 72; What Makes Leaves Fall?, William P. Jacobs, p. 82; Etruscan metallurgy, Aldo Neppi Modona, p. 90; too many deer, A. Starker Leopold, p. 101.

December: The Satellite Project, Homer E. Newell, p. 29; The Coelacanth, Jacques Millot, p. 34; The Strange Case of the blind Babies, Theodore H. Ingalls, p. 40; Life at high altitudes, George W. Gray, p. 58; Isaac Newton, I. Bernard Cohen, p. 73; a model of the Nucleus, V. F. Weisskopf and E. P. Rosenbaum, p. 84; populations of House Mice, Robert L. Strecker, p. 92; The Solar Battery, Gordon Raisbeck, p. 102.

1956

January: Translation by Machine, William N. Locke, p. 29; whistlers, L. R. O. Storey, p. 34; early environment, William R. Thompson and Ronald Melzack, p. 38; the neutrino, Philip Mortison, p. 58; thirst, A. V. Wolf, p. 70; Carotenoids, Sylvia Frank, p. 80; ambroise pare, Sir Geoffrey Keynes, p. 90; the Sargasso Sea, John H. Ryther, p. 98.

February: RESPONSES TO HUMOR, Jacob Levine, p. 31; YOUNG STARS, Adriaan Blaauw, p. 36; THE SOCIAL ORDER OF CHICKENS, A. M. Guhl, p. 42; CHARLES DARWIN, LOTEN C. Eiseley, p. 62; INFORMATION THEORY AND MELODY, Richard C. Pinkerton, p. 77; FLOWERS IN THE ARCTIC, Rutherford Platt, p. 88; BARRIERS IN THE BRAIN, ROBERT B. Aird, p. 101; HEAT, COLD AND CLOTHING, James B. Kelley, p. 109.

March: Stress in Combat, Stanley W. Davis, p. 31; Forest Clearance in the stone age, Johannes Iversen, p. 36; experiments in protein synthesis, Ernest F. Gale, p. 42; world population, Julian Huxley, p. 64; electronic photography of stars, William A. Baum, p. 81; "Jocular Physics", p. 93; the straight line, Mortis Kline, p. 104; the flight of locusts, Torkel Weis-Fogh, p. 116.

April: MASTERS OF THE DESERT, Michael Evenari and Dov Koller, p. 39; LOW-SPEED FLIGHT, David C. Hazen and Rudolf F. Lehnert, p. 46; THE CLOUDS OF MAGELLAN, GÉTARD de Vaucouleurs, p. 52; WATER, Arthur M. Buswell and Worth H. Rodebush, p. 76; ANIMAL SOUNDS IN THE SEA, Marie Poland Fish, p. 93; THE HUMAN CROP, Edward S. Deevey, Jr., p. 105; LEWIS CARROLL. MATHEMATICIAN, Warren Weaver, p. 116; BRAINS AND COCOONS, William G. Van der Kloot, p. 131.

FUTURE OF PHYSICS, P. Le Corbeiller, p. 50; PSYCHOTHERAPY FOR SCHIZOPHRENIA, Don D. Jackson, p. 58; WOOD STRUCTURE, Simon Williams, p. 64; METABOLISM OF HUMMINGBIRDS, Oliver P. Pearson, p. 69.

February: Planets from Palomar, Alice Beach, p. 17; The Geography of Disease, Jacques M. May, p. 22; Insect breathing, Carroll M. Williams, p. 28; The Chemistry of Heredity, A. E. Mirsky, p. 47; Incriminating Stains, C. E. O'Hara and J. W. Osterburg, p. 58; Light Scattered by Particles, V. K. La Mer and M. Kerker, p. 69; William Kingdon Clifford, James R. Newman, p. 78; Toxoplasmosis, Reginald D. Manwell and H. P. Drobeck, p. 86.

March: The Practice of Quality Control, A. G. Dalton, p. 29; the evolution of stars, Oito Struve, p. 34; discoveries in nitrogen fixation, Martin D. Kamen, p. 38; what is pain?, W. K. Livingston, p. 59; the mass spectrometer, Alfred O. C. Nier, p. 68; the embryologist and the protozoon, Paul B. Weisz, p. 76; perfect numbers, Constance Reid, p. 84; captain bligh and the breadfruit, Richard A. Howard, p. 88.

April: THE INFLUENZA VIRUS, Sir Macfarlane Burnet, p. 27; THE EARTH'S ELECTRICITY, James E. McDonald, p. 32; EXPERIMENTS IN AGING, Albert I. Lansing, p. 38; FIELD THEORY, Freeman J. Dyson, p. 57; DARWIN'S FINCHES, David Lack, p. 66; PSYCHOLOGY AND THE INSTRUMENT PANEL, A. Chapanis, p. 74; ATP, Paul K. Stumpf, p. 84; ATOMIC BOMB BLAST WAVES, EVERET F. Cox, p. 94.

May: HIGH-SPEED CHEMISTRY, Lawrence P. Lessing, p. 29; THE MULTIPLICATION OF VIRUSES, Gunther S. Stent, p. 36; A 100-BILLION-VOLT ACCELERATOR, Ernest D. Courant, p. 40; TELEVISION AND THE ELECTION, Angus Campbell et al, p. 46; Mars, Gérard de Vaucouleurs, p. 65; THE TERMITE AND THE CELL, Martin Lüscher, p. 74; THE MORTALITY OF TROUT, Paul R. Needham, p. 81; THE VOYAGE OF THE "CHALLENGER", Herbert S. Bailey, Jr., p. 88.

June: STONEHENGE, Jacquetta Hawkes, p. 25; UNDERWATER TELEVISION, W. R. Stamp, p. 32; THE SKIN OF YOUR TEETH, Reidar F. Sognnaes, p. 38; A LARGER AND OLDER UNIVERSE, George W. Gray, p. 56; CHELATION, Harold F. Walton, p. 68; A VERSATILE VIRUS, Karl Maramorosch, p. 78; THE OPOSSUM, Harold C. Reynolds, p. 88; QUICKSAND, Gerard H. Matthes, p. 97.

July: GAMMA GLOBULIN IN POLIO, William McD. Hammon, p. 25; HYDRAZINE, Lawrence P. Lessing, p. 30; RADAR AND THE WEATHER, Hal Foster, p. 34; WHEAT, Paul C. Mangelsdorf, p. 50; MORE ON THE LANGUAGE OF THE BEES, Hans Kalmus, p. 60; THE KOENIGSBERG BRIDGES, Leonhard Euler, p. 66; THE DESERT RAT, Knut and Bodil Schmidt-Nielsen, p. 73; IS MAN ALONE IN SPACE7, Loren C. Eiseley, p. 80.

August: The reactor as a research instrument, D. J. Hughes, p. 23; archaeology and the earliest art, H. L. Movius, Jr., p. 30; soil conditioners, C. L. W. Swanson, p. 36; cell dvision, Daniel Mazia, p. 53; francis hauksbee, Duane and Duane H. D. Roller, p. 64; essential oils, A. J. Haagen-Smit, p. 70; the genetics of the dunkers, H. Bentley Glass, p. 76; the origin of the atmosphere, Helmut E. Landsberg, p. 82.

September: FUNDAMENTAL QUESTIONS IN SCIENCE, Warren Weaver, p. 47; WHAT IS MATTER?, Erwin Schrödinger, p. 52; WHAT HOLDS THE NUCLEUS TOGETHER?, Hans A. Bethe, p. 58; WHERE DO COSMIC RAYS COME FROM?, Bruno Rossi, p. 64; WHY ARE GALAXIES SPIRAL?, Cecilia H. Payne-Gaposchkin, p. 89; HOW IS A PROTEIN MADE?, K. U. Linderstrom-Lang, p. 100; HOW DO CELLS DIFFERENTIATE?, C. H. Waddington, p. 108; WHAT IS MEMORY?, Ralph W. Gerard, p. 118; WHAT IS PROBABILITY?, Rudolf Carnap, p. 128.

October: ALGAE AS FOOD, Harold W. Milner, p. 31; HIGH-SPEED RESEARCH AIRPLANES, Walter T. Bonney, p. 36; CHEMICAL ANALYSIS BY INFRARED, Bryce Crawford, Jr., p. 42; HUMAN GROWTH, George W. Gray, p. 65; EVOLUTION OBSERVED, Francis J. Ryan, p. 78; HISTORY IN A PEAT BOG, Thomas G. Bibby, p. 84; MICHAEL FARADAY, Herbert Kondo, p. 90; HOW A RATTLESNAKE STRIKES, Walker Van Riper, p. 100.

November: Trade wind clouds, Joanne Start Malkus, p. 31; SCINTILLATION COUNTERS, George B. Collins, p. 36; A FORGOTTEN EMPIRE OF ANTTIQUITY, Stuart Piggott, p. 42; THE GAS TURBINE, Lawrence P. Lessing, p. 65; HOW CHILDREN FORM MATHEMATICAL CONCEPTS, J. Piaget,

p. 74; PROGRESS IN PHOTOSYNTHESIS, Eugene I. Rabinowitch, p. 80; OYSTERS, Pieter Korringa, p. 86; G. F. FITZGERALD, Sir Edmund Whittaker, p. 93.

December: THE MENTAL HEALTH OF THE HUTTERITES, J. W. Eaton, p. 31; VIRUSES WITHIN CELLS, Joseph L. Melnick, p. 38; RADIO WAVES FROM INTERSTELLAR HYDROGEN, H. I. Ewen, p. 42; FOSSIL MAN, LOTEN C. Eiseley, p. 65; FREE RADICALS, Paul D. Bartlett, p. 74; THE HEAT BARRIER, Fritz Haber, p. 80; ALCOHOL IN THE BODY, Leon A. Greenberg, p. 86; ACQUIRED CHARACTERISTICS, C. H. Waddington, p. 92.

1954

January: Computers in Business, Lawrence P. Lessing, p. 21; snow Avalanches, Montgomery M. Atwater, p. 26; the metabolism of fats, David E. Green, p. 32; conditioning and emotions, Howard S. Liddell, p. 48; the shape of things, Cyril Stanley Smith, p. 58; olduval gorge, L. S. B. Leakey, p. 66; francis galton, James R. Newman, p. 72; strangler trees, Theodosius Dobzhansky and João Murça-Pires, p. 78.

February: A CRISIS IN SCIENCE TEACHING, Fletcher G. Watson, p. 27; THE RABBIT PLAGUE, Frank Fenner, p. 30; A FAMILY OF SOLAR ECLIPSES, Richard M. Sutton, p. 36; BLOOD, Douglas M. Surgenor, p. 54; THE SHAPE OF RAINDROPS, James E. McDonald, p. 64; CURIOSITY IN MONKEYS, Robert A. Butler, p. 70; ULTRAMICROCHEMISTRY, BUTTIS B. Cunningham, p. 76; THE END OF THE MOAS, Edward S. Deevey, Jr., p. 84.

March: The national science foundation, Lawrence P. Lessing, p. 29; The Life cycle of a virus, André Lwoss, p. 34; The epidemiology of mental disease, Esnest M. Gruenberg, p. 38; Modern Cosmology, George Gamow, p. 54; The Peru current, Gerald S. Posner, p. 66; Muscle as a Machine, A. Katchalsky and S. Lisson, p. 72; Bird Sonar, Donald R. Grifsin, p. 78; The Klystron, Edward L. Ginzton, p. 84.

April: THE CONTROL OF FERTILITY, Abraham Stone, p. 31; BIOLOGICAL CLOCKS AND THE FIDDLER CRAB, F. A. Brown, p. 34; TRITIUM IN NATURE, Willard F. Libby, p. 38; THE FORM OF CITIES, Kevin Lynch, p. 54; THE LATE EDWIN H. ARMSTRONG, Lawrence P. Lessing, p. 64; HEAT DEATH, L. V. Heilbrunn, p. 70; ANCIENT JERICHO, Kathleen M. Kenyon, p. 76; GEOMETRY AND INTUITION, Hans Hahn, p. 84.

May: THE ELECTORAL SWITCH OF 1952, Angus Campbell et al., p. 31; TIDES IN THE ATMOSPHERE, Sydney Chapman, p. 36; THE RIPENING OF FRUIT, J. B. Biale, p. 40; ULTRASONICS, George E. Henry, p. 54; THE LIFE OF AN ESTUARY, Robert M. Ingle, p. 64; THE LANGUAGE OF HOMER'S HEROES, Jotham Johnson, p. 70; ARE WILD ANIMALS IN CAPTIVITY REALLY WILD, H. Hediger, p. 76; WILLIAM ROWAN HAMILTON, SIR Edmund Whittaker, p. 82.

June: FORT MONMOUTH, John B. Phelps and Ernest C. Pollard, p. 29; HURRICANES, R. H. Simpson, p. 32; INSECT CONTROL, Ray F. Smith and William W. Allen, p. 38; THE ELECTRICAL ACTIVITY OF THE BRAIN, W. Grey Walter, p. 54; THE BOILING OF LIQUIDS, J. W. Westwater, p. 64; FERTILIZATION AND ANTIBODIES, Albert Tyler, p. 70; LAPLACE, James R. Newman, p. 76; EARLY MAN IN THE ARCTIC, J. L. Giddings, Jr., p. 82.

July: THE DUST STORMS OF 1954, H. H. Finnell, p. 25; THE SUPERGALAXY, Gérard de Vaucouleurs, p. 30; Pure Metals, Lawrence P. Lessing, p. 36; THE STRUCTURE OF PROTEIN MOLECULES, Linus Pauling et al., p. 51; THE HOME LIFE OF THE SWIFT, David and Elizabeth Lack, p. 60; THE SLOW DEATH OF A CITY, Jotham Johnson, p. 66; JOSEPH HENRY, Mitchell Wilson, p. 72; PARENTAGE AND BLOOD GROUPS, Alexander S. Wiener, p. 78.

August: Linear Programming, William W. Cooper and Abraham Charnes, p. 21; artificial internal organs, Peter F. Salisbury, p. 24; the history of a peruvian valley, James A. Ford, p. 28; the origin of Life, George Wald, p. 44; a topographic microscope, Samuel Tolansky, p. 54; tsunamis, Joseph Bernstein, p. 60; shrews, Oliver P. Pearson, p. 66; the boundary layer, Joseph J. Cornish III, p. 72.

September: MAN THE FIRE-MAKER, LOREN C. Eiseley, p. 52; WHAT IS HEAT?, Freeman J. Dyson, p. 58; HEAT AND LIFE, Frank H. Johnson, p. 64; HIGH TEMPERATURES: FIAME, Bernard Lewis, p. 84; HIGH TEMPERATURES: MATERIALS, Pol Duwez, p. 98; HIGH TEMPERATURES: CHEMISTRY, Farrington Daniels, p. 109; HIGH TEMPERATURES: PROPULSION, Martin Summerfield, p. 120; VERY HIGH TEMPERATURES, Arthur Kantrowitz, p. 132; ULTRAHIGH TEMPERATURES, Fred Hoyle, p. 144.

1958

January: Tracking satellites by radio, J T Mengel and Paul Herget, p 23, the leap of the grasshopper, Graham Hoyle, p 30, ultrahigh altitude aerodynamics, Samuel A Schaaf et al , p 36, the principle of uncertainty, George Gamow, p 51, barbiturates, Elijah Adams, p 60, how do genes act?, Vernon M Ingram, p 68, experiments in discrimination, N Guttman and H I Kalish, p 77, whales, plankton and man, Willis E. Pequegnat, p 84

February: THE MORTALITY OF MEN AND WOMEN, Amram Scheinfeld, p 22, STRONG MAGNETIC FIELDS, Harold P Furth et al, p 28, THE METABOLISM OF RUMINANTS, Terence A Rogers, p 34, ANCIENT TEMPERATURES, Cesare Emiliani, p 54, THE JUVENILE HORMONE, CAITOLD M Williams, p 67, THE DISCOVERY OF FISSION, Otto Hahn, p 76, BALLISTOCARDIOGRAPHY, H W LEWIS, p 89, PREHISTORIC MAN IN THE GRAND CANYON, D W Schwartz, p 97

March: ATOMIC POWER IN BRITAIN, SIr Christopher Hinton, p 29, THE FIRE ANT, Edward O Wilson, p 36, NORMAN CASTLES, Brian Hope-Taylor, p 42, Particle accelerators, Robert R. Wilson, p 64, "IMPRINTING" IN ANIMALS, Eckhard H. Hess, p 81, Helmholtz, A. C. Crombie, p 94, Hypothermia, Raymond J. Hock and Bennjamin G. Covino, p 104, THE MICROSOME, Paul C. Zamecnik, p 118

April: The Bathyscaph, Robert S Dietz et al, p 27, anti Matter, Georffrey Burbidge and Fred Hoyle, p 34, progesterone, Arpad Csapo, p 40, the teaching of elementary physics, Walter C Michels, p 56, pompeii, Amedeo Maiuri, p 68, the ecosphere, Lamont C Cole, p 83, the chemical senses, Hans Kalmus, p 97, the flowering process, Frank B Salisbury, p 108

May: Tornadoes, Moths Tepper, p 31, a "flying spot" microscope, P Montgomery and W Bonner, p 38, the earth as a dynamo, Walter M Elsasset, p 44, the teaching of elementary mathematics, E. P Rosenbaum, p 64, a study of self disclosure, Sidney M. Jourard, p 77, an insect and a plant, Stanley D Beck, p 87, the action of insulin, Rachmiel Levine and M S Goldstein, p 99, king nestor s palace, Carl W Blegen, p 110

June: TEENAGE ATTITUDES, H H Remmers and D H Radler, p 25, SUPERFLUIDITY, Eugene M Lifshitz, p 30, THE DUPLICATION OF CHROMOSOMES, J Herbert Taylor, p 36, CATTLE, Ralph W Philips, p 51, THE "TALKING BOARDS" OF EASTER ISLAND, Thomas S Barthel, p 61, GOUT AND METABOLISM, De Witt Stetten, Jr., p 73, CLIMATE AND THE CHANGING SUN, Ernst J Ópik, p 85, COMPUTER V CHESS-PLAYER, Alex Bernstein and M de V Roberts, p 96

July. Prestressed concrete, T. Y. Lin, p. 25, fossil meteorite craters, C. S. Beals, p. 32, more about bat "radar", Donald R. Grifin, p. 40, biological oxidation, David E. Green, p. 56, predatory fungi, Joseph J. Maio, p. 67, early man in Africa, J. Desmond Clark, p. 76, The circulation of the abyss, Henry Stommel, p. 85, filariasis, F. Hawking, p. 94

August: Beryllium and Berylliosis, Jack Schubert, p 27, hot spots in the atmosphere of the sun, Harold Zirin, p 34, celestial navigation by Birds, E. G. F. Sauer, p 42, magnetic resonance, George E. Pake, p 58, repetition and learning, Irvin Rock, p 68, a universal molecule of living matter, Martin Kamen, p 77, the cerebellum, Ray S. Snider, p 84, poisonous tides, S. H. Hutner and John J. A. McLaughlin, p 92

September: THE CREATIVE PROCESS, J Bronowski, p 58, INNOVATION IN MATHEMATICS, Paul R. Halmos, p 66, INNOVATION IN PHYSICS, Freeman J Dyson, p 74, INNOVATION IN BIOLOGY, George Wald, p 100, INNOVATION IN TECHNOLOGY, John R. Pierce, p 116, THE PHYSIOLOGY OF IMAGINATION, John C Eccles, p 135, THE PSYCHOLOGY OF IMAGINATION, Frank Barton, p 150, THE ENCOURAGEMENT OF SCIENCE, Warren Weaver, p 170

October: The Stellarator, Lyman Spitzer, Jr., p. 28, cells at high pressure, Douglas Marsland, p. 36, the tails of comets, Ludwig F. Biermann and Rhea Lüst, p. 44, the indo-european language, Paul Thieme, p. 63, the regeneration of body parts, Marcus Singer, p. 79, lectrs in executive monkeys, Joseph V. Brady, p. 95, lignin, F. F. Nord and Walter J. Schubert, p. 104, bogs, Edward S. Deevey, Jr., p. 114

November: The Revival of Thermoelectricity, Abram F Joffe, p 31, "Transduction" in Bacteria, Norton D Zinder, p 38; Stellar populations, Margaret and Geoffrey Burbidge, p 44, The Contraction of Muscle, H E. Huxley, p 66, The Control of Sex, Manuel J Gordon, p 87, Drilling for Petroleum, Sullivan S Marsden, Jr., p 99, The aleuts, T P Bank, p 112, Body water, A V Wolf, p 125

December: NON MILITARY NUCLEAR EXPLOSIONS, G Johnson and H Brown, p 29, FEEDBACK IN THE DIFFERENTIATION OF CELLS, S M Rose, p 36, THE MASER, James P Gordon, p 42, THE EVOLUTION OF BEHAVIOR, KONTAD Z LOTENZ, p 67, THE NERVE IMPULSE AND THE SQUID, RICHARD D Keynes, p 83, INSECT FLIGHT, BRIAN HOCKING, p 92, MATHEMATICAL SIEVES, David Hawkins, p 105, WOUND SHOCK, Sanford Rosenthal, p 115

1959

January: THE STAPHYLOCOCCUS PROBLEM, Stuart Mudd, p 41, DYING STARS, JESSE L Greenstein, p 46, THE MICROCIRCULATION OF THE BLOOD, Benjamin W Zweifach, p 54, THE ATOMIC NUCLEUS, R. E. Peierls, p 75, MOLECULAR SIEVES, D W Breck and J V Smith, p 85, TRACE ELEMENT DESERTS, A J Anderson and E. J Underwood, p 97, SALT GLANDS, Knut Schmidt-Nielsen, p 109, A WITNESS AT THE SCOPES TRIAL, Fay-Cooper Cole, p 120

February: REACTOR FUEL ELEMENTS, James F Schumar, p 37, THE CIRCULATORY SYSTEM OF PLANTS, S and O Biddulph, p 44, THE PERCEPTION OF THE UPRIGHT, HERMAN A WITKIN, p 50, ALFRED RUSSEL WALLACE, LOREN C Eiseley, p 70, ENTEROVIRUSES, Joseph L Melnick, p 88; METAMORPHOSIS AND DIFFERENTIATION, V B Wigglesworth, p 100, HOW WATER FREEZES, Bruce Chalmers, p 114, PIDGIN LANGUAGES, ROBERT A Hall, Jr, p 124

March: Radiation belts around the Earth, James A. Van Allen, p. 39, darwin's missing evidence, H_B D. Kettlewell, p. 48, angiotensin, Irvine H. Page et al., p. 54, the weak interactions, S. B. Treiman, p. 72, the first heartbeats, James D. Ebert, p. 87, underwater archaeology in Guatemala, S. F. Borhegyi, p. 100, joey a "Mechanical Boy", Bruno Bettelheim, p. 116, long earthquake waves, Jack Oliver, p. 131

April: The Mohole, Willard Bascom, p. 41, Family Planning in The U.S., Ronald F. Freedman et al., p. 50, visual perception and personality, Warren J. Wittreich, p. 56, Germination, Dov Koller, p. 75, The Solar system beyond neptune, Owen Gingerich, p. 86, How reptiles regulate body temperature, C. M. Bogert, p. 105, Aligned Crystals in Metals, B. D. Cullity, p. 125, The Sex Gas of Hydra, W. F. Loomis, p. 145

May: Nuclear rockets, John J Newgard and Myron Levoy, p 46, BALLOON ASTRONOMY, Martin and Barbara Schwarzschild, p 52, the origins of darwinism, C D Darlington, p 60, experiments in color vision, Edwin H Land, p 84, the late blight, John S Niederhauser and William C Cobb, p 100, cargo cults, Peter M Worsley, p 117, tissues from dissociated cells, A A Moscona, p 132, artificial satellites and relativity, V L Ginzburg, p 149

June: Rocket astronomy, Herbert Friedman, p 52, an ancient greek computer, Detek J de Solla Price, p 60, love in infant monkeys, Harty F Harlow, p 68, beer, Anthony H Rose, p 90, self reproducing machines, L S Peniose, p 105, junction diode amplifiers, Arthur Uhlir, Jr, p 118, worm autobiographies, G P Wells, p 132, primitive kinship, Meyer Fortes, p 146

July: CARBON DIOXIDE AND CLIMATE, Gilbert N Plass, p 41, PULSATING STARS AND COSMIC DISTANCES, Robert P Kraft, p 48, THE PERCEPTION OF MOTION, Hans Wallach, p 56, THE EXCLUSION PRINCIPLE, George Gamow, p 74, THE LIFE OF A SAND DUNE, William H Amos, p 91, THE CITY OF MIDAS, Machteld J Mellink, p 100, Alkaloids, Trevor Robinson, p 113, THE MOMENT OF FERTILIZATION, Robert D Allen, p 124

August: Satellites and the Earth's atmosphere, Robert Jastrow, p 37, the radio Galaxy, Gart Westerhout, p 44, inclbator birds, H J Frith, p 52, ocean waves, Willard Bascom, p 74, conditioning and brain waves, Vernon Rowland, p 89, charles lyell, Loren C Eiseley, p 98, glaucoma, Sidney Lerman, p 110, the enzyme substrate complex, Earl Frieden, p 119

May: STUDIES IN CORROSION, G. H. Cartledge, p. 35; THE TRACKS OF NUCLEAR PARTICLES, Herman Yagoda, p. 40; THE EYE AND THE BRAIN, R. W. Sperry, p. 48; CULTURAL EVOLUTION, Julian H. Steward, p. 69; LAVOISIER, Denis I. Duveen, p. 84; THE GROWTH OF MUSHROOMS, John Tyler Bonner, p. 97; STICK AND SLIP, Ernest Rabinowicz, p. 109; HEART SOUNDS, Victor A. McKusick, p. 120.

June: THE ANTIPROTON, Emilio Segrè and Clyde E. Wiegand, p. 37; REBUILDING A VIRUS, Heinz Fraenkel-Conrat, p. 42; BOWER BIRDS, A. J. Marshall, p. 48; GODEL'S PROOF, Ernest Nagel and James R. Newman, p. 71; OREOPITHECUS: HOMUNCULUS OR MONKEY?, LOTEN C. Eiseley, p. 91; THE FREEZING OF LIVING CELLS, A. S. Parkes, p. 105; THE CHEMISTRY OF JUPITER, Francis Owen Rice, p. 119; PNEUMATIC BUILDINGS, Murray Kamrass, p. 131.

July: A STUDY OF VALUES, EVON Z. Vogt and John M. Roberts, p. 25; THE RADIO SKY, John D. Kraus, p. 32; THE TOMB OF ANTIOCHUS I, Theresa Goell and F. K. Doerner, p. 38; THE ATOMIC NUCLEUS, Robert Hofstadter, p. 55; SPACE PERCEPTION IN THE CHICK, Eckhard H. Hess, p. 71; PALEOBIOCHEMISTRY, Philip H. Abelson, p. 83; PROGRESS IN SOLAR POWER, Harry Tabor, p. 97; SEXUALITY IN BACTERIA, Elie L. Wollman and François Jacob, p. 109.

August: Physics in the U.S.R., E. P. Rosenbaum, p. 29; the origin of Submarine Canyons, Bruce C. Heezen, p. 36; information and memory, George A. Miller, p. 42; the settlement of Polynesia, Donald Stanley Marshall, p. 58; the effects of radiation on solids, F. Seitz and E. Wigner, p. 76; sickle cells and evolution, Anthony C. Allison, p. 87; LIVING INSECTICIDES, Edward A. Steinhaus, p. 96; time reversal, John M. Blatt, p. 107.

September: THE UNIVERSE, Harold P. Robertson, p. 72; THE ORIGIN OF THE ELEMENTS, William A. Fowler, p. 82; THE CONTENT OF GALAXIES, Walter Baade, p. 92; THE EVOLUTION OF GALAXIES, Jan H. Oort, p. 100; COLLIDING GALAXIES, Rudolph Minkowski, p. 125; THE EVOLUTIONARY UNIVERSE, George Gamow, p. 136; THE STEADY-STATE UNIVERSE, Fred Hoyle, p. 157; THE RED-SHIFT, Allan R. Sandage, p. 170; THE DISTRIBUTION OF GALAXIES, J. Neyman and Elizabeth Scott, p. 187; RADIO GALAXIES, Martin Ryle, p. 204; COSMOLOGY AND SCIENCE, Herbert Dingle, p. 224.

October: The Fuel Situation, Eugene Ayres, p. 43; Tissue culture and cancer, John J. Biesele, p. 50; a national radio observatory, Bart J. Bok, p. 56; The Gene, Norman H. Horowitz, p. 78; Mesonic atoms, Sergio DeBenedetti, p. 93; Pleasure centers in the Brain, James Olds, p. 105; artificial Living Plants, Edward F. Moore, p. 118; The Language of Birds, W. H. Thorpe, p. 128.

November: The artificial satellite, James A. Van Allen, p. 41; Transformed Bacteria, Rollin D. Hotchkiss and Esther Weiss, p. 48; Experiments in Group conflict, Muzafer Sherif, p. 54; Rubber, Harry L. Fischer, p. 74; The Birth of the nuclear atom, E. N. da C. Andrade, p. 93; Appetite and Obesity, Jean Mayer, p. 108; Unorthodox methods of sperm transfer, Lord Rothschild, p. 121; Radioactive tuberculosis Drugs, L. J. Roth and R. W. Manthei, p. 135.

December: ATTITUDES TOWARD DESEGREGATION, H. H. Hyman and P. B. Sheatsley, p. 35; THE CIRCULATION OF THE ATMOSPHERE, Victor P. Start, p. 40; THE BLUE WHALE, Johan T. Ruud, p. 46; THE NEWEST ELEMENTS, Albert Ghiorso and Glenn T. Seaborg, p. 66; THE LAMONT GEOLOGICAL OBSERVATORY, George W. Gray, p. 83; SEPARATING SOLIDS WITH BUBBLES, A. M. Gaudin, p. 99; ELECTRICAL EVENTS IN VISION, LORUS J. and Margery J. Milne, p. 113; THE CHEMISTRY OF HEREDITARY DISEASE, A. G. Bearn, p. 126; FLEXAGONS, Martin Gardner, p. 162.

1957

January: AN EXPERIMENT IN ANTHROPOLOGY, John and Mary Collier, p. 37; NEW METHODS OF RADIO TRANSMISSION, Jerome B. Wiesner, p. 46; THE PATHOLOGY OF BOREDOM, Woodburn Heron, p. 52; ANESTHESIA, Henry K. Beecher, p. 70; PIONS, Robert E. Marshak, p. 84; THE RED BLOOD CELL, Eric Pondeer, p. 95; CHEMICAL MILLING, Edmund L. Van Deusen, p. 104; SNAKEBITE, Sherman A. Minton, Jr., p. 114.

February: THE STRUCTURE OF THE INFLUENZA VIRUS, F. M. Burnet, p. 37; THE INTELLIGENCE OF ELEPHANTS, B. Rensch, p. 44; HEART METABOLISM,

Richard J. Bing, p. 50; ATOMIC CLOCKS, Harold Lyons, p. 71; MESSENGERS OF THE NERVOUS SYSTEM, Amedeo S. Marrazzi, p. 86; INERTIA, Dennis Sciama, p. 99; SIR WILLIAM PERKIN, John Read, p. 110; THE ANTHROPOLOGY OF POSTURE, Gordon W. Hewes, p. 122.

March: FRESH WATER FROM SALT, David S. Jenkins, p. 37; THECHILDAND MODERN PHYSICS, Jean Piaget, p. 46; THE CRAB NEBULA, Jan H. Oort, p. 52; HORMONES, Sir Solly Zuckerman, p. 76; FROZEN FREE RADICALS, Charles M. Herzfeld and Arnold M. Bass, p. 90; GALEN, Frederick G. Kilgour, p. 105; THE JEWISH COMMUNITY OF ROME, L. C. and S. P. Dunn, p. 118; PURSUIT OF A DISEASE, Geoffrey Dean, p. 133.

April: THE OVERTHROW OF PARITY, Philip Morrison, p. 45; EXPERIMENTS IN HYPNOSIS, Theodore X. Barber, p. 54; SKIN TRANSPLANTS, P. B. Mcdawar, p. 62; THE AGE OF THE SOLAR SYSTEM, Harrison Brown, p. 80; "THE WONDERFUL NET", P. F. Scholander, p. 96; THE WHISTLED LANGUAGE OF LA GOMERA, André Classe, p. 111; PLANT GROWTH SUBSTANCES, Frank B. Salisbury, p. 125; SUN CLOUDS AND RAIN CLOUDS, Walter Oir Roberts, p. 138.

May: Vanishing Cultures, Robert Heine-Geldern, p. 39; the shortest radio waves, Walter Gordy, p. 46; the reticular formation, J. D. French, p. 54; the heart, Carl J. Wiggers, p. 74; "Nicolas Bourbaki", Paul R. Halmos, p. 88; diffusion in metals, B. D. Cullity, p. 103; the dying oaks, George S. Avery, Jr., p. 112; a study in the evolution of birds, H. N. Southern, p. 124.

June: A ROCKET AROUND THE MOON, Krafft A. Ehricke and George Gamow, p. 47; SHARKS V. MEN, George A. Llano, p. 54; FEVER, W. Barry Wood, Jr., p. 62; CLIMATE AND AGRICULTURE, Frits W. Went, p. 82; RADIATION PRESSURE, GEORGE E. HENRY, p. 99; ATOMS VISUALIZED, ERWIN W. Müller, p. 113; THE HOPI AND THE TEWA, Edward P. Dozier, p. 126; THE EVOLUTION OF MIND, NORMAN L. Munn, p. 140.

July: CHEMICAL PROSPECTING, Harold Bloom and Harold F. Walton, p. 41; THE ABSORPTION OF RADIO WAVES IN SPACE, A. E. Lilley, p. 48; WEED CONTROL BY INSECT, James K. Holloway, p. 56; ELEMENTARY PARTICLES, Murray Gell-Mann and E. P. Rosenbaum, p. 72; AGAMMAGLOBULINEMIA, David Gitlin and Charles A. Janeway, p. 93; THE TOMBS OF THE FIRST PHARAOHS, Walter B. Emery, p. 106; THE GEOGRAPHY OF BIRDS, Carl Welty, p. 118; POWERHOUSE OF THE CELL, Philip Siekevitz, p. 131.

August: The Origin of Hurricanes, Joanne Start Malkus, p. 33; ELECTROLUMINESCENCE, Henry F. Ivey, p. 40; How Fishes Swim, Sir James Gray, p. 48; The Ear, Georg von Békésy, p. 66; The Plasma Jet, Gabriel M. Giannini, p. 80; Single Human Cells in Vitro, Theodore T. Puck, p. 91; Schizophrenia and Culture, Marvin K. Opler, p. 103; The Edible Snall, Jean Cadart, p. 113.

September: GIANT MOLECULES, Herman F. Mark, p. 80; HOW GIANT MOLECULES ARE MEASURED, Peter J. W. Debye, p. 90; HOW GIANT MOLECULES ARE MADE, Ginlio Natta, p. 98; THE MECHANICAL PROPERTIES OF POLYMERS, Arthur V. Tobolsky, p. 120; POLYETHYLENE, GERAID OSTER, p. 139; CELLULOSE, R. D. Preston, p. 156; PROTEINS, Paul DOTY, p. 173; NUCLEIC ACIDS, F. H. C. Crick, p. 188; GIANT MOLECULES IN CELLS AND TISSUES, Francis O. Schmitt, p. 204.

October: METROPOLITAN SEGREGATION, MORTON GRODZINS, p. 33; SALT AND RAIN, A. H. WOOdCOCK, p. 42; DEFENSE BY COLOR, N. Tinbergen, p. 48; THE SUMERIANS, Samuel Noah Kramer, p. 70; PLASMOIDS, WINSTON H. BOSTICK, p. 87; THE SPECIFICITY OF ANTIBODIES, S. J. SINGER, p. 99; CONGENITAL DEFORMITIES, Theodore H. Ingalls, p. 109; THE SYNTHESIS OF MILK, J. M. BAITY, p. 121.

November: A NATIONAL SCIENCE POLICY, Chester I. Barnard, p. 45; ANIMALS OF THE ABYSS, Anton F. Bruun, p. 50; SHANIDAR CAVE, Ralph S. Solecki, p. 58; "THE ORGANIZER", George W. Gray, p. 79; SUPERCONDUCTIVITY, B. T. Matthias, p. 92; BATS, William A. Wimsatt, p. 105; ORGANIC CHEMICAL REACTIONS, John D. Roberts, p. 117; SUBJECTIVE PROBABILITY, John Cohen, p. 128.

December: OBSERVATIONS OF SATELLITE 1, F. L. Whipple and J. A. Hynck, p. 37; PENGUINS, William J. L. Sladen, p. 44; SEROTONIN, Irvine H. Page, p. 52; FUSION POWER, Richard F. Post, p. 73; NEANDERTHAL MAN, J. E. Weckler, p. 89; HEINRICH HERTZ, Philip and Emity Morrison, p. 98; TOOTH DECAY, Reidar F. Sognnaes, p. 109; THE INDESTRUCTIBLE HYDRA, N. J. Berrill, p. 118.



Michael H Jameson, p 111, LEE WAVES IN THE ATMOSPHERE, R. S Scorer, p 124, SHADOWS AND DEPTH PERCEPTION, p Eckhard H Hess, p 138, MONOMOLECULAR FILMS, HERMAN E RIES, Jr, p 152

April: THE ECONOMICS OF DISARMAMENT, W Leontief and M Hoffenberg, p 47, THE PARATHYROID HORMONE, HOWARD RASMUSSEN, p 56, THE SIZE OF THE SOLAR SYSTEM, James B McGuire et al, p 64, BLOOD-VESSEL SURGERY, Michael E. De Bakey and Leonard Engel, p 88, THE CRONWELL CURRENT, John A Knauss, p 105, PINOCYTOSIS, Ronald C Rustad, p 120, ULTRAHIGH SPEED ROTATION, Jesse W Beams, p 134, THE ECOLOGY OF FIRE, Charles F Cooper, p 150

May: Interferon, Alick Isaacs, p 51, the temperatures of the planets, Cornell H Mayer, p 58, the origin of form perception, Robert L Fantz, p 66, the arctic ocean, P A Gordienko, p 88, from faraday to the dynamo, Harold I Sharlin, p 107, collagen, Jerome Gross, p 120, taste receptors, Edward S Hodgson, p 135, the mathematician as an explorer, Sherman K. Stein, p 148

June: OPTICAL MASERS, Arthur L Schawlow, p 52, THE SOCIAL LIFE OF BABOONS, S L Washburn and I DeVore, p 62, STABILIZED IMAGES ON THE RETINA, Roy M Pritchard, p 72, VIRUSES AND GENES, François Jacob and Elie L Wollman, p 92, SUBDWARF STARS, Margaret and Geoffrey Burbidge, p 111, excavations at Sardis, George M A Hanfmann, p 124, BIOTIN, John D Woodward, p 139, THE AIRBORNE MAGNETOMETER, Homer Jensen, p 151

July: The census of 1960, Philip M Hauser, p 39, the Muon, Sheldon Penman, p 46, the artificial kidney, John P Metrill, p 56, weather satellites, Mottis Neiburger and Harry Wexler, p 80, hormones and skin color, Aaton B Letner, p 98, experiments in animal psychophysics, Donald S Blough, p 113, superconducting computers, W B Ittner III and C J Kraus, p 124, air conditioned termite nests, Martin Luscher, p 138

August: Precisely constructed polymers, Giulio Natia, p 33, cleaning symbiosis, Conrad Limbaugh, p 42, astroblemes, Robert S Dietz, p 50, the reproduction of sound, Edward E David, Jr., p 72, hacilar a neolithic village site, James Mellagt, p 86, enzymes in Medical Diagnosis, Felix Wroblewski, p 99, the Life span of Animals, Alex Comfort, p 108, low altitude jet streams, Morton L Barad, p 120

September: The Living cell, Jean Brachet, p 50, how cells Transform energy, Albert L Lehninger, p 62, how cells make Molecules, V G Allfrey and A E. Mirsky, p 74, how cells divide, Daniel Mazia, p 100, how cells specialize, Michail Fischberg and A W Blackler, p 124, how cells associate, A A Moscona, p 142, how Things get into cells, Heinz Holter, p 167, how cells move, Teru Hayashi, p 184, how cells communicate, Bernhard Katz, p 209, how cells receive stimuli, William H Miller et al, p 222

October: AIR POLLUTION AND PUBLIC HEALTH, Walsh McDermott, p 49, GAS CHROMATOGRAPHY, ROY A Keller, p 58, THE ECOLOGY OF THE HIGH HIMALAYAS, LAWRENCE W SWAN, p 68, COMMUNICATION SATELLITES, John R. Pierce, p 90, OBSERVING DISLOCATIONS, W C Dash and A G Tweet, p 107, ISIMILA A PALEOLITHIC SITE IN AFRICA, F Clark Howell, p 118, AUDITORY LOCALIZATION, Mark R. Rosenzweig, p 132, THE MAGNETISM OF THE OCEAN FLOOR, Arthur D Raff, p 146

November: THE TWO-MILE ACCELERATOR, E. L. GINZTON and William Kirk, p. 49, TEKTITES, Virgil E. Barnes, p. 58, CHROMOSOMES AND DISEASE, A. G. Bearn and J. L. German III, p. 66, TEACHING MACHINES, B. F. Skinner, p. 90, Desert Ground Squirrels, G. A. Bartholomew and J. W. Hudson, p. 107, Maxwell's Color Photograph, Raiph M. Evans, p. 118, THE ELECTROCARDIOGRAM, Allen M. Scher, p. 132, Architectural Vaulting, J. H. Acland, p. 144

December. NATIONALITY AND CONFORMITY, Stanley Milgram, p. 45, THE EAST PACIFIC RISE, Henry W. Menard, p. 52, SATELLITE CELLS IN THE NERVOUS SYSTEM, Holger Hyden, p. 62, THE EOTNOS EXPERIMENT, R. H. Dicke, p. 84, THREE DINENSIONAL STRUCTURE OF A PROTEIN, J. C. Kendrew, p. 96, THE HIGHTING BEHAVIOR OF ANIMALS, Irenaus Eibl-Eibesfeldt, p. 112, GALVANOMAGNETISM AND THERMOMAGNETISM, S. W. Angrist, p. 124, Prehistoric Swiss Lake Dwellers, Hansjurgen Muller-Beck, p. 138

1962

January: Sonic Boom, Herbert A. Wilson, Jr., p. 36, Aftereffects in Percepion, W. C. H. Prentice, p. 44, hypernuclei, V. L. Telegdi, p. 50, the fine structure of the Gene, Seymour Benzer, p. 70, the behavior of Lovebirds, William C. Dilger, p. 88, the physiology of aging, Nathan W. Shock, p. 100, the bering strait land bridge, William G. Haag, p. 112, two-phase materials, Games Slayter, p. 124

February: Messenger RNA, Jerard Hurwitz and J J Furth, p 41, the solar Chromosphere, R Grant Athay, p 50, physiological effects of acceleration, Terence A Rogers, p 60, the etruscans, Raymond Bloch, p 82, error-correcting codes, W Wesley Peterson, p 96, amoeboid movement, Robert D Allen, p 112, wear, Ernest Rabinowicz, p 127, population density and social pathology, John B Calhoun, p 139

March: RADIO GALAXIES, D S Heeschen, p 41, ELECTRICALLY CONTROLLED BEHAVIOR, Erich von Holst, p 50, the Clotting of Fibrinogen, Koloman Laki, p 60, ultrahigh vaccum, H A Steinherz and P A Redhead, p 78, red-feather money, William Davenport, p 94, cataracts, Sidney Lerman, p 106, the smallest cells, H J Morowitz and M E. Touriellotte, p 117, the longest electromagnetic waves, James R. Heirtzler, p 128

April: Steps toward disarmament, P. M. S. Blackett, p. 45, exploding stars, Robert P. Kraft, p. 54, the membrane of the living cell, J. David Robertson, p. 64, paradox, W. V. Quine, p. 84, fractionating the fruit fly, Ernst Hadom, p. 100, the action of adhesives, Norman A. de Bruyne, p. 114, the soaring flight of birds, Clarence D. Cone, Jr., p. 130, attention and the perception of speech, D. E. Broadbent, p. 143.

May: THE SHELTER-CENTERED SOCIETY, Arthur I Waskow, p 46, GAMMA RAY ASTRONOMY, W L Kraushaar and G W Clark, p 52, EXPERIMENTS WITH GOGGLES, IVO KOhler, p 62, MALARIA, Carlos A. Alvarado and L J Bruce Chwarl, p 86, EXPLODING WIRES, Frederick D Bennett, p 102, SEISMIC SHOOTING AT SEA, Maurice Ewing and Leonard Engel, p 116, CHIMPANZEES IN THE WILD, Adriaan Kortlandt, p 128, HEART CELLS IN VITRO, Isaac Harary, p 141

June' THE DETECTION OF UNDERGROUND EXPLOSIONS, L. Don Leet, p. 55, SUPERCONDUCTING MAGNETS, J. E. Kunzler and M. Tanenbaum, p. 60, COMPUTER PROGRAMS FOR TRANSLATION, VICTOR H. Yngve, p. 68, THE PATH OF CARBON IN PHOTOSYNTHESIS, J. A. Bassham, p. 88, ISHANGO, Jean de Heinzelin, p. 105, "FLOATERS' IN THE EYE, Harvey E. White and Paul Levatin, p. 119, THE SCHOOLING OF FISHES, Evelyn Shaw, p. 128, THE ANALYSIS OF BRAIN WAVES, MARY A. B. Brazier, p. 142

July: The effects of smoking, E Cuyler Hammond, p 39, the plastic layer of the earth smantle, Don L Anderson, p 52, the behavior of sharks, Petry W Gilbert, p 60, inclusion compounds, John F Brown, Jr, p 82, micropaleontology, David B Ericson and Goesta Wollin, p 96, single stranded dna, Robert L Sinsheimer, p 109, the moon illusion, Lloyd Kaufman and Irvin Rock, p 120, telephone switching, H S Feder and A E. Spencer, p 132

August: The Thalidomide Syndrome, Helen B Taussig, p 29, the spark chamber, Gerard K. O'Neill, p 36, the sea's deep scattering layers, Robert S Dietz, p 44, schizophrenia, Don D Jackson, p 65, dialects in the language of the bees, Karl von Frisch, p 78, neutrino astronomy, Philip Mottison, p 90, pumps in the living cell, Arthur K. Solomon, p 100, kinns, H O J Collier, p 111

September: THE ANTARCTIC, A. P. Crary, p. 60, THE ANTARCTIC AND THE UPPER ATMOSPHERE, Charles Winght, p. 74, THE ANTARCTIC AND THE WEATHER, MORTON J. Rubin, p. 84, THE ANTARCTIC OCEAN, V. G. KORT, p. 113, THE ICE OF THE ANTARCTIC, GORDIN de Q. RODIN, p. 132, THE LAND OF THE ANTARCTIC, G. P. Woollard, p. 151, THE ANCIENT LIFE OF THE ANTARCTIC, G. Doumani and W. Long, p. 168, THE OCEANIC LIFE OF THE ANTARCTIC, ROBERT Cushman Murphy, p. 186, THE TERRESTRIAL LIFE OF THE ANTARCTIC, George A. Llano, p. 212

October: More from the census of 1960, Philip M. Hauser, p. 30, ANCIENT FLUIDS IN CRYSTALS, Edwin Roedder, p. 38, SURGICAL STAPLING, R. F. Mallina et al., p. 48, THE GENETIC CODE, F. H. C. Crick, p. 66,

September: WHAT IS IONIZING RADIATION?, Robert L. Platzman, p. 74; THL CIRCULATION OF ISOTOPLS, J. R. Arnold and E. A. Martell, p. 84; RADIATION AND THE CLLL, A. Hollaender and G. E. Stapleton, p. 94; IONIZING RADIATION AND THE WHOLL ANIMAL, John F. Louitt, p. 117; IONIZING RADIATION AND EVOLUTION, James F. Crow, p. 138; IONIZING RADIATION AND MEDICINE, Shields Warten, p. 164; IONIZING RADIATION AND ORGANIC CHEMISTRY, A. Charlesby, p. 180; IONIZING RADIATION AND METALS, Douglas S. Billington, p. 200; IONIZING RADIATION AND THE CITIZEN, George W. Beadle, p. 219.

October: THE TRANSPLANTATION OF THE KIDNLY, John P. Merrill, p. 57; THE EARTH IN THE SUN'S ATMOSPHERL, Sydney Chapman, p. 64; FULL CELLS, Leonard G. Austin, p. 72; LIFL AND LIGHT, George Wald, p. 92; MOLLCULAR MOTIONS, B. J. Alder and Thomas E. Wannwright, p. 113; THE SOCIAL BEHAVIOR OF PRAIRIE DOGS, John A. King, p. 128; LICHENS, I. Mackenzie Lamb, p. 144; DESCARTES, A. C. Crombie, p. 160.

November: Ultrahigh pressures, H. Tracy Hall, p. 61; the growth of nerve circuits, R. W. Sperfy, p. 68; poisons, Elyah Adams, p. 76; the invention of the electric light, Matthew Josephson, p. 98; the language of crows, Hubert and Mable Frings, p. 119; high energy cosmic rays, Bruno Rossi, p. 134; insects and plant galls, William Hovanitz, p. 151; the idea of man santiquity, Glyn E. Daniel, p. 167.

December: NUCLEIC ACIDS AND PROTEINS, Mahlon B. Hoagland, p. 55; THE PROTO-CASTLES OF SARDINIA, GIOVANNI Lilliu, p. 62; BODY FAT, VINCENT P. Dole, p. 70; THE ARMS OF THE GALAXY, Bart J. Bok, p. 92; COMPUTER MUSIC, Lejaren A. Hiller, Jr., p. 109; THE FLOW OF MATTER, Marcus Reiner, p. 122; THE PHYSIOLOGY OF THE CAMEL, Knut Schmidt-Nielsen, p. 140; DIFFERENTIATION IN SOCIAL AMOEBAE, John Tyler Bonner, p. 152.

1960

January: The 600-Foot radio telescope, Edward F. McClain, Jr., p. 45; prehistoric art in the alfs, Emmanuel Anati, p. 52; animals in the snow, William O. Pruit, Jr., p. 60; breeder reactors, Alvin M. Weinberg, p. 82; radiation-imitating chemicals, Peter Alexander, p. 99; the green flash, D. J. K. O'Connell, S.J., p. 112; nuclear control of the cell, Helen Gay, p. 126; the mechanism of breathing, Wallace O. Fenn, p. 138.

February: The enduring indian, Oliver La Farge, p. 37; The synthesis of fat, David E. Green, p. 46; The magnetism of the sun, Horace W. Babcock, p. 52; Open-Heart surgery, C. Walton Lillehei and Leonard Engel, p. 76; Fracture in solids, John J. Gilman, p. 94; Insects and the Length of the day, Stanley D. Beck, p. 108; Cosmic Spherules and Meteoritic Dust, Hans Petiersson, p. 123; Yeasts, Anthony H. Rose, p. 136.

March: The reclamation of a man-made desert, W. C. Lowdermilk, p. 54; interplanetary navigation, Aubrey B. Mickelwait et al., p. 64; applications of superconductivity, Theodore A. Buchhold, p. 74, the nuclear force, Robert E. Marshak, p. 98, the thyroid gland, Lawson Wilkins, p. 119; immunoelectrophoresis, Curtis A. Williams, Jr., p. 130, "Truth" drugs, Lawrence Zelic Freedman, p. 145; the portuguese manof-war, Charles E. Lane, p. 158

April: LIFE OUTSIDE THE SOLAR SYSTEM, Su-Shu Huang, p. 55; THE "VISUAL CLIFF", Eleanor J. Gibson and Richard D. Walk, p. 64; THE MOSSBAUER EFFECT, Sergio de Benedetti, p. 72, SAND, Ph. H. Kuenen, p. 94; SPIDER WEBS, Theodore H. Savory, p. 114; DELAYED HYPERSENSITIVITY, Alfred J. Crowle, p. 129, RADIATION AND THE HUMAN CELL, Theodore T. Puck, p. 142; THE RISE OF A ZULU EMPIRE, p. Max Gluckman, p. 157.

May: THE EXPLORATION OF THE MOON, Robert Jastrow, p. 61; THE CHANGING LEVEL OF THE SEA, Rhodes W. Fairbridge, p. 70; STIMULATION IN INFANCY, Seymour Levine, p. 80; ENERGY TRANSFORMATION IN THE CELL, Albert L. Lehninger, p. 102; GENETIC MOSAICS, Aloha Hannah-Alava, p. 118; FLASH PHOTOLYSIS, Leonard I. Grossweiner, p. 134, HOW ANIMALS RUN, Milton Hildebrand, p. 148, ANIMAL INFECTIONS AND HUMAN DISEASES, Meir Yoeli, p. 161.

June: LOGLAN, James Cooke Brown, p. 53; SOLAR PARTICLES AND COSMIC RAYS, KINSEY A. Anderson, p. 64; INSECT ASSASSINS, John S. Edwards, p. 72; IERRITES, C. Lester Hogan, p. 92; HUMPHRY DAYY, L. Pearce Williams, p. 106; How we see Straight Lines, John R. Platt, p. 121, FLLMING'S LYSOZYML, Robert F. Acker and S. E. Hartsell, p. 132, THE ORIGIN OF ORLS, H. G. Bachmann, p. 146.

July: The force between molecules, Boris V. Degaguir, p. 47, the zodiacal light, D. E. Blackwell, p. 54; metal "whiskers", S. S. Brenner, p. 64; the mediterranean project, Egon Glesinger, p. 86
The biology of heavy water, Joseph J. Kaiz, p. 106; the buoyancy of marine animals, Eric Denton, p. 118; prehistoric man in mammoth cave, Douglas W. Schwafiz, p. 130; things that go faster than light, Milton A. Rothman, p. 142.

August: Vertical-takeoff aircraft, John P. Campbell, p. 41; radar astronomy, Von R. Eshleman and Allen M. Peterson, p. 50, pattern recognition, Oliver G. Selfridge and Ulric Neisser, p. 60; beaches, Willard Bascom, p. 80; biological transducers, Werner R. Loewenstein, p. 98; peasant markets, Sidney W. Mintz, p. 112, the structure of Liquids, J. D. Bernal, p. 124; friendly viruses, Karl Maramorosch, p. 138.

September: Tools and Human Evolution, Sherwood L. Washburn, p. 62; the origin of society, Marshall D. Sahlins, p. 76, the origin of speech, Charles D. Hockett, p. 88; the distribution of Man, William W Howells, p. 112; the agricultural revolution, Robert J. Bradwood, p. 130; the origin of cities, Robert M. Adams, p. 153; the scientific revolution, Herbert Butterfield, p. 173; the human population, Edward S. Deevey, Jr., p. 194; the present evolution of Man, Theodosius Dobthansky, p. 206.

October: The Eradication of the Screw-worm Fly, E. F. Knipling, p. 54; a forgotten civilization, P. V. Glob and T. G. Bibby, p 62, optical pumping, Arnold L. Bloom, p. 72; the rift in the ocean floor, Bruce C. Heezen, p. 98; electric fishes, Harry Grundfest, p. 115; high speed impact, A. C. Charters, p. 128; the physics of wood winds, Arthur H. Benade, p. 144; count rumford, Mitchell Wilson, p. 158.

November: The Polyoma virus, Sarah E Stewart, p. 63; fiber offics, Narinder S. Kapany, p. 72; patterns of dreaming, Nathaniel Kleitman, p. 82; the role of light in photosynthesis, Daniel I. Atnon, p. 104, wildlife husbandry in Africa, F. Fraser Darling, p. 123; superfluidity and "Quasi-particles", F. Reif, p. 138; the treasure of st ninians, R. L. S. Bruce-Mitford, p. 154; the age of the solar system, John H Reynolds, p. 171.

December: AIR-TRAFFIC CONTROL, Seymour Deitchman and Alfred Blumstein, p. 47; LIGHT AND PLANT DEVELOPMENT, W. L. Butler and R J Downs, p 56; MINERALS ON THE OCEAN FLOOR, John L. Mero, p. 64; THE VIRUSES OF THE COMMON COLD, CHIStopher H. Andrewes, p. 88; NONUNIFORM ELECTRIC FIELDS, Herbert A. Pohl, p. 106; THE EVOLUTION OF BEHAVIOR IN GULLS, N. Tinbergen, p. 118, PRIMITIVE ARCHITECTURE, James M Fitch and Daniel P. Branch, p. 134; Pores in the Cell Membrane, Arthur K. Solomon, p. 146.

1961

January: RE ENTRY FROM SPACE, John V Becker, p. 49, THE MECHANISM OF IMMUNITY, SIF Macfarlane Burnet, p. 58, THE ZIGGURAT OF TCHOGA ZANBIL, ROMAN Ghirshman, p. 68, GLASS, Charles H Greene, p. 92, A NEW SCALE OF STELLAR DISTANCES, O. C Wilson, p. 107, THE GROWTH OF SNOW CRYSTALS, B J. Mason, p. 120; THE HUMAN THERMOSTAT, T H. Benzinger, p. 134; SALPA, N. J. Bertill, p. 150.

February: The Perception of Pain, Ronald Melzack, p. 41; Peculiar Galaxies, Margaret and Geolfrey Burbidge, p. 50, blood platelets, Marjone B. Zucker, p. 58; The structure of Proteins, W. H. Stein and Stanford Moore, p. 81; Experimental Geology, V. V. Belousov, p. 96; CILIA, Peter Saur, p. 108, The Celestial Palace of Tycho Brahe, John Christianson, p. 118; The Teredo, Charles E. Lane, p. 132.

March: ELECTRICAL PROPULSION IN SPACE, Gabriel Giannini, p 57; NEW PENICILLINS, Anthony H. Rose, p. 66; PRE CAMBRIAN ANIMALS, Martin F. Glaesner, p. 72; GRAVITY, George Gamow, p 94, THE BATTLE OF SALAMIS,

A CONTRACT OF THE PARTY OF THE

p 38, hybrid nucleic acids, S Spiegelman, p 48, the chemistry of the noble gases, Henry Selig et al, p 66, dwarf galaxies, Paul W Hodge, p 78, leukemia, Emil Frei III and Emil J Freifeich, p 88, arithmetic behavior in chimpanzees, Charles B Ferster, p 98, early concepts of the senses and the mind, A C Crombie, p 108

June: The Supersonic Transport, R. L. Bisplinghoff, p. 25, x ray astronomy, Herbert Friedman, p. 36, a defective cancer virus, Haffy Rubin, p. 46, chemical stimulation of the Brain, Alan E. Fisher, p. 60, magnetothermoelectricity, Raymond Wolfe, p. 70, flower pigments, Sarah Clevenger, p. 84, visual search, Ulric Neisser, p. 94, the tunnel of eupalinus, June Goodfield, p. 104

July: Attitudes toward desegregation, H H Hyman and P B Sheatsley, p 16, control mechanisms of the eye, Detek H Fender, p 24, radio waves from Jupiter, K. L Franklin, p 34, the early relatives of man, Elwyn L Simons, p 50, the thymus hormone, Raphael H Levey, p 66, germ free isolators, P C Trexler, p 78, the chinampas of mexico, Michael D Coe, p 90, computer experiments in chemistry, Don L Bunker, p 100

August: Radio-Emitting Flare Stars, Sir Bernard Lovell, p 13, insect attractants, Martin Jacobson and Morton Beroza, p 20, the infra cambrian ice age, W B Harland and M J S Rudwick, p 28, wine, Maynard A Amerine, p 46, the embryological origin of muscle, Irwin R Konigsberg, p 61, population control in animals, V C Wynne-Edwards, p 68, liquid crystals, James L Fergason, p 76, the solutrean culture, Philip E L Smith, p 86

September: MATHEMATICS IN THE MODERN WORLD, RICHARD COURANT, p 40, NUMBER, Philip J Davis, p 50, GEOMETRY, MOITIS Kline, p 60, ALGEBRA, W W SAWYER, p 70, PROBABILITY, MARK KAC, p 92, THE FOUNDATIONS OF MATHEMATICS, W V Quine, p 112, MATHEMATICS IN THE PHYSICAL SCIENCES, Freeman J Dyson, p 128, MATHEMATICS IN THE BIOLOGICAL SCIENCES, Edward F Moore, p 148, MATHEMATICS IN THE SOCIAL SCIENCES, Richard Stone, p 168, CONTROL THEORY, RICHARD Bellman, p 186, COMPUTERS, Stanislaw M Ulam, p 202

October: The Test Ban, Jerome B Wiesner and Herbert F York, p 27, THE OMEGA MINUS EXPERIMENT, W B Fowler and N P Samios, p 36, THE GENETIC CODE OF A VIRUS, Heinz Fraenkel-Confat, p 46, MICROMETEOROLOGY, Sir Graham Sulton, p 62, TEARS AND THE LACRIMAL GLAND, Stella Y Botelho, p 78, INDUSTRIAL MANIPULATORS, Ralph S Mosher, p 88, THE ILLUSION OF MOVEMENT, Paul A Kolers, p 98, HABITAT SELECTION, Stanley C Wecker, p 109

November: The origins of New World Civilization, Richard S MacNeish, p 29, exploding galaxies, Allan R. Sandage, p 38, the reproductive behavior of ring doves, Daniel S Lehrman, p 48, the hemoglobin molecule, M F Perutz, p 64, the solid state of polyethylene, Bernhard Wunderlich, p 80, lateritic soils, Mary McNeil, p 96, the michelson morley experiment, R S Shankland, p 107, psychological time, John Cohen, p 116

December: HURRICANE MODIFICATION, R. H SIMPSON and JOANNE S Malkus, p 27, THE GEOLOGY OF THE MOON, Eugene M Shoemaker, p 38, THREE-PIGMENT COLOR VISION, Edward F MacNichol, Jr, p 48, PROTEIN DIGESTING ENZYMES, HAIS NEUTATH, p 68, FLUID CONTROL DEVICES, Stanley W Angrist, p 80, THE HOPEWELL CULT, Olaf H Prufer, p 90, HOW CELLS MAKE ANTIBODIES, G J V NOSSAI, p 106, QUANTIZED VORTEX RINGS IN SUPERFLUID HELIUM, F Reif, p 116

1965

January: METROPOLITAN MEDICAL ECONOMICS, NOTA K. PIOTE, p. 19, INFRARED ASTRONOMY BY BALLOON, John Strong, p. 28, THE UNDERCOOLING OF LIQUIDS, David Turnbull, p. 38, THE SYNAPSE, SIT John Eccles, p. 56, Genes Outside the Chromosomes, Ruth Sager, p. 70, Alessandro Volta, Giorgio de Sanullana, p. 82, The Evolution of Intelligence, M. E. Billetman, p. 92, Magnetic Resonance at high pressure, George B. Benedek, p. 102

February: SUPERCONDUCTIVITY AT ROOM TEMPERATURE, W. A. Little, p. 21, FIBER REINFORCED METALS, Anthony Kelly, p. 28, TEXTURE AND VISUAL FLRCEPTION, Bela Julesz, p. 38, THE SKIN, William Montagna,

p 56, THE GENETICS OF A BACTERIAL VIRUS, R S Edgar and R. H Epstein, p 70, HOW OPIATES CHANGE BEHAVIOR, John R. Nichols, p 80, THE AGE OF THE ORION NEBULA, Peter O Vandervoort, p 90, THE GREEKS AND THE HEBREWS, Cyrus H Gordon, p 102

March: The Jordan Valley Plan, Maurice A. Garbell, p. 23, The STRUCTURE OF CRYSTAL SURFACES, Lester H. Germer, p. 32, Learning in The octopus, Brian B. Boycott, p. 42, The Magnetosphere, Laurence J. Cahill, Jr., p. 58, The Sarcoplasmic reticulum, Keith R. Porter and Clara Franzini-Armstrong, p. 72, Acoustic methods in psychiatry, Peter F. Ostwald, p. 82, de forest and the triode detector, Robert A. Chipman, p. 92, computer experiments in Fluid Dynamics, F. H. Harlow, p. 104

April: The Structure of the US Economy, Wassily W Leontief, p 25, The Control of Biochemical Reactions, J-P Changeux, p 36, attitude and pupil size, Eckhard H Hess, p 46, intense magnetic fields, H H Kolm and A J Freeman, p 66, an early neolithic village in greece, Robert J Rodden, p 82, moths and ultrasound, Kenneth D Roeder, p 94, the discovery of Icarus, Robert S Richardson, p 106, the stirling refrigeration cycle, J W L Kohler, p 119

May: Poverty and social change, Alexander H Leighton, p 21, the luminescence of the moon, Zdeněk Kopal, p 28, high pressure technology, Alexander Zeitlin, p 38, molecular beams, O R. Frisch, p 58, the navigation of the green turtle, Archie Cart, p 78, the physiology of exercise, C B Chapman and J H Mitchell, p 88, frozen tombs of the scythians, M I Artamonov, p 100, the evolution of hemoglobin, Emile Zuckerkandl, p 110

June: PHOTOGRAPHY BY LASER, Emmett N Leith and Juris Upatnieks, p 24, HORMONES AND GENES, Eric H Davidson, p 36, THE MAGNETIC FIELD OF THE GALAXY, Glenn L Berge and George A Seielstad, p 46, CHEMICAL FERTILIZERS, Christopher J Pratt, p 62, THE FLIGHT MUSCLES OF INSECTS, David S Smith, p 76, CORONA CHEMISTRY, John A COffman and William R. Browne, p 90, THE COMPOSITION OF THE EARTH S INTERIOR, Taro Takahashi, p 100, WILLIAM WITHERING AND THE PURPLE FOXGLOVE, J Worth Estes and Paul Dudley White, p 110

July: THE SUPPORT OF SCIENCE IN THE U.S., Dael Wolfle, p. 19, HYDROXYL RADICALS IN SPACE, Brian J. Robinson, p. 26, THE SECONDARY RECOVERY OF PETROLEUM, Noel de Nevers, p. 34, THE PINEAL GLAND, RICHARD J. Wurtman and Julius Axelrod, p. 50, ULTRASTRONG MAGNETIC FIELDS, Francis Bitter, p. 64, THE ROLE OF CHLOROPHYL IN PHOTOSYNTHESIS, Eugene I. Rabinowitch and Govindjee, p. 74, Ancient Jerusalem, Kathleen M. Kenyon, p. 84, Flies and Disease, Bernard Greenberg, p. 92

August: Residential segregation, Karl E Taeuber, p 12, Infrared astronomy, Bruce C Murray and James A Westphal, p 20, High speed tube transportation, L K. Edwards, p 30, Nuclear fission, R. B Leachman, p 49, The production of heat by Fat, M J R. Dawkins and David Hull, p 62, Density Gradients, Gerald Oster, p 70, The swimming energetics of Salmon, J R. Brett, p 80, The Royal Hemophilia, Victor A McKusick, p 88

September: The urbanization of the human population, Kingsley Davis, p. 40, the origin and evolution of cities, Gideon Sjoberg, p. 54, the modern metropolis, Hans Blumenfeld, p. 64, calcuita a premature metropolis, Nirmal Kumar Bose, p. 90, stockholm a planned city, Gotan Sidenbladh, p. 106, ciudad Guayana a new city, Lloyd Rodwin, p. 122, new york a metropolitan region, Benjamin Chinitz, p. 134, the uses of land in cities, Charles Abrams, p. 150, transportation in cities, John W. Dyckman, p. 162, the metabolism of cities, Abel Wolman, p. 178, the renewal of cities, Nathan Glazer, p. 194, the city as environment, Kevin Lynch, p. 209

October: PROTEIN FROM PETROLEUM, Alfred Champagnat, p 13, ELECTRICAL EFFECTS IN BONE, C Andrew L Bassett, p 18, DIAMONDS IN METEORITES, Edward Anders, p 26, CHANGE, A J Ayer, p 44, QUANTUM EFFECTS IN SUPERCONDUCTORS, R. D Parks, p 57, EARLY MAN IN PERU, Edward P Lanning, p 68, THE CHEMISTRY OF CELL MEMBRANES, Lowell and Mabel Hokin, p 78, THE ORIGINS OF FACIAL EXPRESSIONS, RICHARD J Andrew, p 88

November: REAPPORTIONMENT AND REDISTRICTING, Ruth C Silva, p 20, RESONANT VIBRATIONS OF THE EARTH, Frank Press, p 28, AN ARTIFICIAL HEART INSIDE THE BODY, Willem J Kolli, p 38, MICROELECTRONICS,

SEMICONDUCTOR PARTICLL-DETLECTORS, Oleva-Myron Bilaniuk, p. 78; COGNITIVE DISSONANCE, Leon Festinger, p. 93; LLECTRICITY IN PLANTS, Bruce I. H. Scott, p. 107; DADDY LONGLEGS, Theodore H. Savory, p. 119.

November: THE LYSENKO AFI AIR, David Joravsky, p. 41; THE THYMUS GLAND, SIR Macfarlane Burnet, p. 50; THE PERIADES, D. Nelson Limber, p. 58; THE PHYSICS OF VIOLINS, Carleen Maley Hutchins, p. 78; CHEMICAL TOPOLOGY, Edel Wasserman, p. 94; NEUTRON RADIOGRAPHY, Harold Berger, p. 107; VISUAL PIGMENTS IN MAN, W. A. H. Rushton, p. 120, SOCIAL DEPRIVATION IN MONKEYS, HARRY F. and Margaret Harlow, p. 136.

December: Desalting water by Freizing, Asa E. Snyder, p. 41; atmospheric tides, S. T. Builer, p. 48; the evolution of the hand, John Napier, p. 56; biological luminescence, W. D. McElroy and H. H. Seliger, p. 76; the conduction of heat in solids, Robert L. Sproull, p. 92; the use and misuse of game theory, Anatol Rapoport, p. 108; surface tension in the lungs, John A. Clements, p. 120; ultraviolet radiation and nucleic acid, R. A. Deering, p. 135.

1963

January: THE LESSON OF THE PYGMIES, Colin M. Turnbull, p. 28; RESONANCE PARTICLES, R. D. Hill, p. 38; THE STRUCTURE OF VIRUSES, R. W. Horne, p. 48; THE EVOLUTION OF GALAXIES, Halton C. Arp, p. 70; LITHIUM, Henry Gilman and John J. Eisch, p. 88; THE PERCEPTION OF NEUTRAL COLORS, p. Hans Wallach, p. 107; THE HAMSTER, Rupert E. Billingham and Willys K. Silvers, p. 118; WHY DO ROADS CORRUGATE?, Keith B. Mather, p. 128.

February: A STUDY OF ASPIRATIONS, Hadley Cantril, p. 41; THE ROTATION OF STARS, Helmut A. Abt, p. 46; PROTOPSYCHOLOGY, Jay Boyd Best, p. 54; CRISES IN THE HISTORY OF LIFE, NORMAN D. Newell, p. 76, AN ASSYRIAN TRADING OUTPOST, Tahsin Özgüç, p. 96; SHOCK WAVES AND HIGH TEMPERATURES, Malcolm McChesney, p. 109; THE FUNGI OF LICHENS, Vernon Ahmadjian, p. 122; THE CLOCK PARADOX, J. Bronowski, p. 134.

March: Organic matter from space, Brian Mason, p. 43; electric location by fishes, H. W. Lissmann, p. 50; the two-neutrino experiment, Leon M. Lederman, p. 60, the genetic code 11, Marshall W. Nirenberg, p. 80; the nature and measurement of anxiety, Raymond B. Cattell, p. 96; ball lightning, Harold W. Lewis, p. 106; the operation on president mckinley, Selig Adler, p. 118; how sap moves in trees, Martin H. Zimmerman, p. 132

April: THE MEKONG RIVER PLAN, Gilbert F White, p 49, PLANETARY NEBULAE, Martha and William Liller, p. 60; THE SYNTHETIC ELEMENTS III, Glenn T. Seaborg and A R Fritsch, p. 68; CONTINENTAL DRIFT, J TUZO WILSON, p. 86; THE AGING OF COLLAGEN, Frederic Verzár, p 104, PROBLEM SOLVING, Martin Scheerer, p. 118, THE ORIGINS OF THE LATHE, ROBERT S WOODBURY, p 132; PREDATORY WASPS, HOWARD E EVANS, p 144

May: THE PHYSICIST'S PICTURE OF NATURE, P. A. M. DIRAC, p. 45, MOIRE PATTERNS, Gerald Oster and Yasunon Nishijima, p. 54, THE LYSOSOME, Christian de Duve, p. 64; Radiation Belts, Brian J. O'Brien, p. 84, PHEROMONES, Edward O. Wilson, p. 100, Early Man in the andes, William J. Mayer-Oakes, p. 116, THE MEASUREMENT OF MOTIVATION, H. J. Eysenck, p. 130, THE CULTIVATION OF TILAPIA, Charles F. Hickling, p. 143

June: THE ECOLOGICAL EFFECTS OF RADIATION, George M Woodwell, p. 40, NOCTILUCENT CLOUDS, Robert K Soberman, p. 50, KILOMEGACYCLE ULTRASONICS, Klaus Dransfeld, p. 60; THE LYMPHATIC SYSTEM, H S Mayerson, p. 80, Hydrogen in Galaxies, Morton S Roberts, p. 94, THE SANCTUARY OF ARTEMIS AT BRAURON, John Papadimitriou, p. 110; MACHINE TRANSLATION OF CHINESE, G W King and H W Chang, p. 124, EXPIERIENCE AND EMOTIONAL DEVELOPMENT, V H Denenberg, p. 138

July: Advances in optical masers, Arthur L Schawlow, p 34, the acth molecule, Choh Hao Li, p. 46; sex differences in cells, Ursula Mittwoch, p 54, the voyage of mariner 11, J. N James, p. 70, the social influence of salt, M R Bloch, p 88; the archer fish, K H Luling, p. 100, the fermi surface of metals, A R MacLintosh, p. 110, inhibition in visual systems, Donald Kennedy, p 122.

August: MEDICAL CARE IN THE U.S., Osler L. Peterson, p. 19, OBSERVATORIES IN SPACE, Arthur I. Berman, p. 28, THE EVOLUTION OF

BOWI RBIRDS, E. Thomas Gilliard, p. 38; CHINGIS KHAN AND THE MONGOL CONQUESTS, Owen Lattemore, p. 54; THE STRENGTH OF STEEL, VICTOR F Zackay, p. 72; HOW SLIME MOLDS COMMUNICATE, John Tyler Bonner, p. 84, THE SLA THAT SPILLS INTO A DESERT, Maurice A. Garbell, p. 94, AUTOBIOGRAPHIES OF CELLS, Renato Baserga and W. E. Kisieleski, p. 103

September: TECHNOLOGY AND ECONOMIC DEVELOPMENT, Asa Biggs, p. 52; POPULATION, Kingsley Davis, p. 62, Food, Nevin S Senmshaw, p. 72; WATER, Roger Revelle, p. 92; ENERGY, Sam H Schurt, p. 110, MINERALS, Julian W. Feiss, p. 128; EDUCATION FOR DEVELOPMENT, Frederick Harbison, p. 140; The STRUCTURE OF DEVELOPMENT, Wassily Leontief, p. 148; The Development of Nigeria, Wolfgang F Stolper, p. 168; The Development of India, Pitambar Pant, p. 189, The DEVELOPMENT OF BRAZIL, Celso Furtado, p. 208; The Development of the U.S. SOUTH, Arthur Goldschmidt, p. 224; The Planning of Development, Edward S. Mason, p. 235.

October: The first breath, Clement A. Smith, p 27; conservation laws, G. Feinberg and M. Goldhaber, p. 36; foreign nucleic acids, Alick Isaacs, p. 46; chondrites and chondrules, John A. Wood, p 64, afterimages, G. S. Brindley, p. 84; the capital of the nabataeans, Peter J. Part, p 94; the control of growth in plant cells, F. C. Sieward, p. 104; place learning, Henry Gleitman, p 116

November: BEHAVIORAL SCIENCE AND CRIMINAL LAW, Edward J. Sachar, p. 39; PLASMAS IN SOLIDS, Raymond Bowers, p. 46, THE VISUAL CORTEXOF THE BRAIN, David H. Hubel, p. 54; ARCHITECTURAL ACOUSTICS, Vern O. Knudsen, p. 78; ASPIRIN, H. O. J. Collier, p. 96; THE CHEMISTRY OF AMPHIBIAN METAMORPHOSIS, Earl Frieden, p. 110, Ancient Glass, Robert H. Brill, p. 120; QUICK CLAY, Paul F. Kerr, p. 132.

December: VEHICULAR TRAFFIC FLOW, Robert Herman and Keith Gardels, p. 35; POLYRIBOSOMES, Alexander Rich, p. 44, Quasi Stellar Radio Sources, Jesse L. Greenstein, p. 54, THE CONTINUOUS CASTING OF STEEL, L. V. Gallagher and B. S. Old, p. 74; THE MASTER SWITCH OF LIFE, P. F. Scholander, p. 92; ANCIENT CUMAE, Raymond V. Schoder, S. J., p. 108; MAGNETIC MONOPOLES, Kenneth W. Ford, p. 122; THE AERIAL MIGRATION OF INSECTS, C. G. Johnson, p. 132

1964

January: The Control of Air Pollution, A. J. Haagen-Smit, p. 24, The Large Cloud of Magellan, Barl J. Bok, p. 32, The Great Cerebral Commissure, R. W. Sperfy, p. 42, The Mitochondrion, David E. Green, p. 63, Trachoma, Georges H. Werner, Bachisio Latte and Andrea Contini, p. 79, Boron, A. G. Massey, p. 88, The Origins of the Steam Engine, Eugene S. Ferguson, p. 98; Advances in Field Emission, W. P. Dyke, p. 108

February: The effects of observing violence, Leonard Berkowitz, p 35, the stereochemical theory of odor, John E Amoore et al., p 42, tektites and impact fragments from the moon, J A O'Keefe, p. 50; how cells attack antigens, Robert S Speirs, p 58, strongly interacting particles, Geoffrey F Chew et al., p 74, the antarctic skua, Carl R. Eklund, p 94; redundancy in computers, William H Pierce, p 103, the black death, William L Langer, p 114

March: All Weather Aircraft Landing, Frank B Brady, p 25. BACTERIAL ENDOTOXINS, A I Braude, p 36, EXPERIMENTAL NARCOTIC ADDICTION, James R Weeks, p 46, THE CIRCULATION OF THE UPPER ATMOSPHERE, R. E Newell, p 62, FAST NEUTRON SPECTROSCOPY, Lawrence Cranberg, p 79, FORGETTING, BENION J Underwood, p 91, THE DISCOVERY OF STELLAR ABERRATION, Albert B Stewart, p 100, VISION IN FROGS, W. R A MUNTZ, p 110

April: The Hallucinogenic drugs, Frank Barton et al., p. 29, The interaction of light with light, J. A. Giordmaine, p. 38, Chromosome puffs, Wolfgang Beermann and Ulrich Clever, p. 50, The solar wind, E. N. Parker, p. 66, The Chemistry of Concrete, Stephen Brunquer and E. Copeland, p. 80, a neolithic city in Turkey, James Mellaart, p. 94, The Petrified forests of Yellowstone Park, Erling Dorf, p. 106; sound communication in Honeybees, Adrian M. Wenner, p. 116

May: A STUDY IN FERTILITY CONTROL, B. Berelson and R. Freedman, p. 29, HIGH VOLTAGE TRANSMISSION, L. O. Barthold and H. G. Pfeiffer,

, ·

THE VIKINGS, Eric Oxenstierna, p. 66; GENE STRUCTURE AND PROTEIN STRUCTURE, Charles Yanofsky, p. 80; VISION AND TOUCH, IRVIN ROCK and Charles S. Harris, p. 96; LIGHT-EMITTING SEMICONDUCTORS, Frederick F. Morehead, Jr., p. 108; Ordinary Matter, Gerald Feinberg, p. 126.

June: THE U.S. PATENT SYSTEM, J. Herbert Hollomon, p. 19; THE PRIMEVAL FIREBALL, P. J. E. Peebles and David T. Wilkinson, p. 28; TEOTIHUACAN, René Millon, p. 38; MOLECULAR ISOMERS IN VISION, Ruth Hubbard and Allen Kropf, p. 64; LIQUID LASERS, Alexander Lempicki and Harold Samelson, p. 80; GEOLOGICAL SUBJIDENCE, S. S. Marsden, Jr., and S. N. Davis, p. 93; BUTTERFLIES AND PLANTS, Paul R. Ehrlich and Peter H. Raven, p. 104; MEMORY AND PROTEIN SYNTHESIS, BETNARD W. Agranoff, p. 115.

July: Third-Generation Pesticides, Cartoll M. Williams, p. 13; Integrated Computer Memories, Jan A. Rajchman, p. 18; tektites and Geomagnetic Reversals, Billy P. Glass and Bruce C. Heezen, p. 32; escape from Paradox, Anatol Rapoport, p. 50; building a Bacterial virus, William B. Wood and R. S. Edgar, p. 60; the Leakage problem in Fusion Reactors, Francis F. Chen, p. 76; pre-columbian Ridged Fields, J. J. Parsons and W. M. Denevan, p. 92; general tom Thumb and Other Midgets, Victor A. McKusick, p. 102.

August: THE CLIMATE OF CITIES, William P. LOWTY, p. 15; THE SPLIT BRAIN IN MAN, Michael S. Gazzaniga, p. 24; THE YOUNGEST STARS, GEORGE H. Herbig, p. 30; MECHANICAL HARVESTING, Clarence F. Kelly, p. 50; TETRODOTOXIN, Frederick A. Fuhrman, p. 60; Fossil Behavior, Adolf Seilacher, p. 72; SOLID HELIUM, Bernard Bertman and Robert A. Guyer, p. 84; ROBERT BOYLE, Marie Boas Hall, p. 96.

September: Materials, Cyril Stanley Smith, p. 68; the solid State, Sir Nevill Mott, p. 80; the nature of metals, A. H. Cottrell, p. 90; the nature of ceramics, John J. Gilman, p. 112; the nature of glasses, R. J. Charles, p. 126; the nature of polymeric materials, Herman F. Mark, p. 148; the nature of composite materials, Anthony Kelly, p. 160; the thermal properties of materials, John Ziman, p. 180; the electrical properties of materials, Hermy Ehrenreich, p. 194; the chemical properties of materials, Howard Reiss, p. 210; the magnetic properties of materials, Frederic Keffer, p. 222; the optical properties of materials, Ali Javan, p. 238; the competition of materials, W. O. Alexander, p. 254.

October: SQUATTER SETTLEMENTS, William Mangin, p. 21; LIQUID NATURAL GAS, Noel de Nevers, p. 30; THE STREAMER CHAMBER, David E. Yount, p. 38; THE SHAPE OF THE EARTH, DESMOND King-Hele, p. 67; THE STRUCTURE OF ANTIBODIES, R. R. PORTER, p. 81; VISUAL ISOLATION IN GULLS, Neal Griffith Smith, p. 94; INTERSTELLAR GRAINS, J. Mayo Greenberg, p. 106; THE INTERFERENCE THEORY OF FORGETTING, John Ceraso, p. 117.

November: The Sociology of the Nobel Prizes, Harriet Zuckerman, p. 25; the Feel of the Moon, Ronald F. Scott, p. 34; early man in South America, Edward P. Lanning and Thomas C. Patterson, p. 44; lysosomes and disease, Anthony Allison, p. 62; rapid excavation, Thomas E. Howard, p. 74; gravitational collapse, Kip S. Thorne, p. 88; Maxwell's Demon, W. Ehrenberg, p. 103; the fungus gardens of Insects, Suzanne W. T. Batra and Lekh R. Batra, p. 112.

December: INFECTIOUS DRUG RESISTANCE, TSULOMU Watanabe, p. 19; THE EARLIEST APES, Elwyn L. Simons, p. 28; x-ray stars, Riccardo Giacconi, p. 36; zone refining, William G. Pfann, p. 62; high-energy scattering, Vernon D. Barger and David B. Cline, p. 76; the vibrating string of the pythagoreans, E. Eugene Helm, p. 92; non-cantorian set theory, Paul J. Cohen and Reuben Hersh, p. 104; the water buffalo, W. Ross Cockrill, p. 118.

1968

January: Earlier Maturation in Man, J. M. Tanner, p. 21; the BENEFICIATION OF IRON ORES, M. M. Fine, p. 28; How proteins start, Brian F. C. Clark and Kjeld A. Marcker, p. 36; REMOTE SENSING OF NATURAL RESOURCES, Robert N. Colwell, p. 54; The & Factor of the Ellctron, H. R. Crane, p. 72; The venous system, J. Edwin Wood, p. 86; The Circulation of the sun's atmosphere, Victor P. Start and Peter A. Gilman, p. 100; Perpetual Motion Machines, Stanley W. Angrist, p. 114.

February: The arrival of nuclear power, John F. Hogerton, p. 21; The membrane of the mitochondrion, Efraim Racker, p. 32; advances in holography, Keith S. Pennington, p. 40; the evolution of paleolithicart, André Leroi-Gourhan, p. 58; jupiter's great red spot, Raymond Hide, p. 74; death from staphylococci, Ian Maclean Smith, p. 84; studies in self-esteem, Stanley Coopersmith, p. 96; the migration of polar bears, Vagn Flyger and Marjorie R. Townsend, p. 108.

March: Anti-Ballistic-Missile systems, R. L. Gaiwin and H. A. Bethe, p. 21; human cells and aging, Leonard Hayflick, p. 32; obsidian and the origins of trade, J. E. Dixon, J. R. Cann and Colin Renfrew, p. 38; the automatic synthesis of proteins, R. B. Mertifield, p. 56; bilingualism and information processing, Paul A. Kolers, p. 78; channeling in crystals, Werner Brandt, p. 90; pulse-code modulation, J. S. Mayo, p. 102; the adjustable brain of hibernators, N. Miosovsky, p. 110.

April: TEACHER EXPECTATIONS FOR THE DISADVANTAGED, ROBERT ROSENTHAL AND LENORE F. Jacobson, p. 19; OXYGEN IN STEELMAKING, JOSEPH K. Stone, p. 24; PHOTON ECHOES, SVEN R. HAITMANN, p. 32; THE CONFIRMATION OF CONTINENTAL DRIFT, Patrick M. Hurley, p. 52; TETANUS, W. E. van Heyningen, p. 69; POLLEN, Patrick Echlin, p. 80; THE QANATS OF IRAN, H. E. Wulff, p. 94; THE SEXUAL LIFE OF A MOSQUITO, Jack Colvard Jones, p. 108.

May: THE THREE SPECTROSCOPIES, VICTOR F. Weisskopf, p. 15; THE TARTARIA TEBLETS, M. S. F. HOOD, p. 30; THE HEAT PIPE, G. Yale Eastman, p. 38; THE LUNAR ORBITER MISSIONS TO THE MOON, Ellis Levin, Donald D. Viele and Lowell B. Eldrenkamp, p. 58; THE FLIGHT-CONTROL SYSTEM OF THE LOCUST, Donald M. Wilson, p. 83; LEIBNIZ, Frederick C. Kreiling, p. 94; THE BIOCHEMISTRY OF COPPER, Earl Frieden, p. 102; TERRITORIAL MARKING BY RABBITS, ROMAN MYKYLOWYCZ, p. 116.

June: The modulation of laser light, Donald F. Nelson, p. 17; a stone age campsite at the gateway to america, Douglas D. Anderson, p. 24; stars in contact, O. J. Eggen, p. 34; standards of measurement, Allen V. Astin, p. 50; the brain of birds, Laurence Jay Stettner and Kenneth A. Matyniak, p. 64; the discovery of dna, Alfred E. Mirsky, p. 78; polishing, Etnest Rabinowicz, p. 91; plants without cellulose, R. D. Preston, p. 102.

July: Intensive Heart Care, Bernard Lown, p. 19; Radar observations of the planets, Irwin I. Shapiro, p. 28; Sunburn, Farrington Daniels, Jr. et al., p. 38; X-ray Crystallography, Sir Lawrence Bragg, p. 58; The Control of plant growth, Johannes van Overbeek, p. 75; The Beginnings of wheeled transport, Stuart Piggott, p. 82; Fluidization, H. William Flood and Bernard S. Lee, p. 94; Hidden Lives, Theodore H. Savory, p. 108.

August: A STUDY OF GHETTO RIOTERS, Nathan S. Caplan and Jeffery M. Paige, p. 15; HIGH-POWER CARBON DIOXIDE LASERS, C. K. N. Patel, p. 22; L-ASPARAGINE AND LEUKEMIA, Lloyd J. Old et al., p. 34; THE INFRARED SKY, G. Neugebauer and Robert B. Leighton, p. 50; EXPERIMENTS IN WATER-BREATHING, Johannes A. Kylstra, p. 66; THE ORIGINS OF THE OLYMPIC GAMES, Raymond Bloch, p. 78; MOVEMENTS OF THE EYE, E. Llywellyn Thomas, p. 88; QUEUES, Martin A. Leibowitz, p. 96.

September: LIGHT, Gerald Feinberg, p. 50; HOW LIGHT INTERACTS WITH MATTER, Victor F. Weisskopf, p. 60; HOW LIGHT IS ANALYZED, Pierre Connes, p. 72; HOW IMAGES ARE FORMED, F. DOW Smith, p. 96; HOW IMAGES ARE DETECTED, R. Clark Jones, p. 110; LASER LIGHT, Arthur L. Schawlow, p. 120; APPLICATIONS OF LASER LIGHT, Donald R. Herriott, p. 140; THE CHEMICAL EFFECTS OF LIGHT, Gerald Oster, p. 158; HOW LIGHT INTERACTS WITH LIVING MATTER, Sterling B. Hendricks, p. 174; THE CONTROL OF THE LUMINOUS ENVIRONMENT, James Marston Fitch, p. 190; THE PROCESSES OF VISION, Ulric Neisser, p. 204.

October: Pulsars, Antony Hewish, p. 25; Surgery for Coronary Disease, Donald B. Effler, p. 36; Chemical accelerators, Richard Wolfgang, p. 44; The synthesis of DNA, Arthur Kornberg, p. 64; Cargo-Handling, Roger H. Gilman, p. 80; How fast can computers add?, Shmuel Winograd, p. 93; Air-Breathing fishes, Kjell Johansen, p. 102; HOMO MONSTROSUS, Annemarie de Waal Malefijt, p. 112.

November: THE DIMENSIONS OF WORLD POVERTY, David Simpson, p. 27; STRONG AND DUCTILE STEELS, Earl R. Parker and Victor F. Zackay, p. 36;

William C. Hittinger and Morgan Sparks, p. 56; The Reversal of Tumor Growth, Armin C. Braun, p. 75; Plasticity in Sensory-Motor systems, Richard Held, p. 84; Cames, Logic and Computers, Hao Wong, p. 98; The ICE FISH, Johan T. Ruud, p. 108.

December: THE "UNTOUCHABLES" OF INDIA, M. N. Srinivas and André-Bèteille, p. 13; THE MECHANISM OF MUSCULAR CONTRACTION, H. E. Huxley, p. 18; VIOLATIONS OF SYMMETRY IN PHYSICS, Eugene P. Wigner, p. 28; FLEAS, Miriam Rothschild, p. 44; THE AURORA, SYUN-Ichi Akasofu, p. 54; RHEUMETIC FEVER, Earl H. Freimer and Maclyn McCarty, p. 66; HEAT TRANSFER IN PLANTS, David M. Gates, p. 76; THE PHYSICS OF THE PIANO, E. Donnell Blackham, p. 88.

1966

January: Communication by Laser, Stewart E. Miller, p. 19; A Transpacific contact in 3000 B.C., Betty J. Meggers and Clifford Evans, p. 28; The Bacterial Chromosome, John Cairis, p. 36; The ranger missions to the Moon, H. M. Schurmeier, R. L. Heacock and A. E. Wolfe, p. 52; Orchids, Joseph Arditti, p. 70; Chemistry at high velocities, Richard Wolfgang, p. 82; Adaptations to cold, Laurence Irving, p. 94; Fined-Point Theorems, Marvin Shinbrot, p. 105.

February: TAR SANDS AND OIL SHALES, Noel de Nevers, p. 21; THE NUCLEOTIDE SEQUENCE OF A NUCLEIC ACID, Robert W. Holley, p. 30; NEUTRINOS FROM THE ATMOSPHERE AND BEYOND, Frederick Reines and J. P. F. Sellschop, p. 40; THE LUNG, Julius H. Comfoe, Jr., p. 56; STRESS-CORROSION FAILURE, Peter R. Swann, p. 72; THE HAGFISH, David Jensen, p. 82; THE CONTROL OF SNOW AVALANCHES, Edward R. LaChapelle, p. 92; SCIENTIFIC NUMISMATICS, D. D. KOSAMBİ, p. 102.

March: LIVING UNDER THE SEA, JOSEPH B. MacInnis, p. 24; THE FOOTPRINTS OF TUMOR VIRUSES, Fred Rapp and J. L. Melnick, p. 34; THE VOYAGE OF MARINER IV, J. N. James, p. 42; BEARINGS, E. A. Muyderman, p. 60; THE NERVE AXON, Peter F. Baker, p. 74; THE PREHISTORY OF THE AUSTRALIAN ABORIGINE, D. J. Mulvaney, p. 84; FALSE SCORPIONS, Theodore H. Savory, p. 95; THE AIRGLOW, Robert A. Young, p. 102.

April: THE ECONOMICS OF TECHNOLOGICAL CHANGE, Anne P. Catier, p. 25; CHEMICAL LASERS, GEORGE C. Pimentel, p. 32; CHROMOSOME ANALYSIS BY COMPUTER, R. S. Ledley and F. H. Ruddle, p. 40; THE PHOTOGRAPHS FROM MARINER IV, Robert B. Leighton, p. 54; EARLY METALLURGY IN THE NEW WORLD, Dudley T. Easby, Jr., p. 72; SEX DIFFERENCES IN THE BRAIN, Seymour Levine, p. 84; THE MUONIUM ATOM, VERNON W. Hughes, p. 93; ANTIBIOTICS AND THE GENETIC CODE, Luigi Gorini, p. 102.

May: WATER UNDER THE SAHARA, Robert P. Ambroggi, p. 21; THE JOSEPHSON EFFECT, Donald N. Langenberg et al., p. 30; CHELATION IN MEDICINE, Jack Schubert, p. 40; THE SCIENTIFIC EXPERIMENTS OF MARINER IV, Richard K. Sloan, p. 62; HOW A TADPOLE BECOMES A FROG, William Etkin, p. 76; THE DECLINE OF THE HARAPPANS, GEORGE F. Dales, p. 92; INHIBITION IN THE CENTRAL NERVOUS SYSTEM, VICTOR J. Wilson, p. 102; TURNING A SURFACE INSIDE OUT, Anthony Phillips, p. 112.

June: THE HEALTH OF THE AMERICAN PEOPLE, FOITEST E. Linder, p. 21; LOCATING RADIO SOURCES WITH THE MOON, R. W. Clarke, p. 30; MOLECULAR MODEL-BUILDING BY COMPUTER, CYTUS LEVINIHAI, p. 42; RIVER MEANDERS, Luna B. Leopold and W. B. Langbein, p. 60; THE BLUE-GREEN ALGAE, Patrick Echlin, p. 74; APPLICATIONS OF THE COANDA EFFECT, Imants Reba, p. 84; PIGS IN THE LABORATORY, Leo K. Bustad, p. 94; ELEPHANT-HUNTING IN NORTH AMERICA, C. Vance Haynes, Jr., p. 104.

July: The detection of underground explosions, E. C. Bullard, p. 19; German Measles, Louis Z. Cooper, p. 30; Modern Cryptology, David Kahn, p. 38; Foultry Production, Wilbor O. Wilson, p. 56; Folarized accelerator targets, Gilbert Shapiro, p. 68; The voodoo lily, Bastiaan J. D. Meeuse, p. 80; Short-term Memory, Lloyd R. Peterson, p. 90; Boron Crystals, Don B. Sullenger and C. H. L. Kennard, p. 96.

August: The Last of the Great whales, Scott McVay, p. 13; a solidstate source of microwaves, Raymond Bowers, p. 22; the origin of cosmic rays, Geostey Burbidge, p. 32; atherosclerosis, David M. Spain, p. 48; the study of sailing yachts, H. C. Herieshoss and J. N. Newman, p. 60; mammalian eggs in the Laboratory, R. G. Edwards, p. 72; CONFLICT AND AROUSAL, Daniel E. Berlyne, p. 82; HOW THE "NEWER ALCHEMY" WAS RECEIVED, Lawrence Badash, p. 88.

September: Information, John McCarthy, p. 64; computer logicand memory, David C. Evans, p. 74; computer inputs and outputs, Ivan E Sutherland, p. 86; system analysis and programming, Christopher Strachey, p. 112; time stiaring on computers, R. M. Fano and F. J. Cordató, p. 128; the transmission of computer data, John R. Pierce, p. 144; the uses of computers in science, Anthony G. Oetlinger, p. 160; the uses of computers in technology, Steven Anson Coons, p. 176; the uses of computers in organizations, Martin Greenberger, p. 192; the uses of computers in education, Patrick Suppes, p. 206; information storage and retrieval, Ben-Ami Lipetz, p. 224; artificial intelligence, Marvin L. Minsky, p. 246.

October: THE CULTURE OF POVERTY, OSCAR LEWIS, p. 19; CORALS AS PALEONTOLOGICAL CLOCKS, S. K. Runcorn, p. 26; THE ELECTRIC AUTOMOBILE, George A. Hoffman, p. 34; THE GENETIC CODE: III, F. H. C. Crick, p. 55; SOLID NOBLE GASES, Gerald L. Pollack, p. 64; NIGHT BLINDNESS, John E. Dowling, p. 78; THE ORIGINS OF THE COPERNICAN REVOLUTION, J. E. Ravetz, p. 88; THE NAVIGATION OF PENGUINS, J. E. Emlen and R. L. Penney, p. 104.

November: Technology in China, Genko Uchida, p. 37; homo erectus, William W. Howells, p. 46; magnetic fields on the quietsun, William C. Livingston, p. 54; the three-dimensional structure of an enzyme molecule, David C. Phillips, p. 78; the aging great lakes, Charles F. Powers and Andrew Robertson, p. 94; particle storage rings, Gerard K. O'Neill, p. 107; acetabularia: a useful giant cell, Aharon Gibor, p. 118; analgesic prugs, Marshall Gates, p. 131.

December: PROGRESS TOWARD FUSION POWER, T. K. Fowler and R. F. Post, p. 21; THE GENETIC CONTROL OF THE SHAPE OF A VIRUS, Edouard Kellenberger, p. 32; THE PROBLEM OF THE QUASI-STELLAR OBJECTS, Geoffrey Burbidge and Fred Hoyle, p. 40; Noise, Leo L. Beranek, p. 66; THE VISUAL WORLD OF INFANTS, T. G. R. BOWER, p. 80; PELLA: CAPITAL OF ANCIENT MACEDONIA, Ch. J. Makatonas, p. 98; NUMERICAL TAXONOMY, Robert R. Sokal, p. 106; ICE, L. K. Runnels, p. 118.

1967

January: THE POLYGRAPH, Burke M. Smith, p. 25; CHEMICAL FOSSILS, Geoffrey Eglinton and Melvin Calvin, p. 32; A PALEO INDIAN BISON KILL, Joe Ben Wheat, p. 44; PIPELINES, E. J. Jensen and H. S. Ellis, p. 62; RATS, S. A. Barnett, p. 78; ELECTRIC CURRENTS IN ORGANIC CRYSTALS, Martin Pope, p. 86; CAN TIME GO BACKWARD?, Martin Gardner, p. 98; THE KINSHIP OF ANIMAL AND HUMAN DISEASES, Robert W. Leader, p. 110.

February: Orthodox and unorthodox methods of meeting world food needs, N. W. Pirie, p. 27; the repair of dna, Philip C. Hanawalt and Robert H. Hayres, p. 36; reversals of the earth's magnetic field, Allan Cox et al., p. 44; the states of sleep, Michel Jouvet, p. 62; the solvated electron, James L. Dye, p. 76; controlled eutectics, R. Wayne Kraft, p. 86; medical thermography, Jacob Gershon-Cohen, p. 94; living prehistory in India, D. D. Kosambi, p. 104.

March: TOXIC SUBSTANCES AND ECOLOGICAL CYCLES, G. M. Woodwell, p. 24; THE HEART'S PACEMAKER, E. F. Adolph, p. 32; ANCIENT ABARAT, Tahsin Özgüç, p. 38; THE SURFACE OF THE MOON, Albert R. Hibbs, p. 60; BEHAVIORAL PSYCHOTHERAPY, Albert Bandura, p. 78; SALT-WATER AGRICULTURE, Hugo Boyko, p. 89; THE ORIGIN OF THE AUTOMOBILE ENGINE, Lynwood Bryant, p. 102; ADVANCES IN SUPERCONDUCTING MAGNETS, W. B. Sampson et al., p. 114.

April: THE SOCIAL POWER OF THE NEGRO, James P. Comer, p. 21; THE INDUCTION OF CANCER BY VIRUSES, Renato Dulbecco, p. 28; THE CHANGINO HELICOPTER, Alfred Gessow, p. 38; THE ANTIQUITY OF HUMAN WALKING, John Napier, p. 56; NEUTRON-ACTIVATION ANALYSIS, W. H. Wahl and H. H. Kramer, p. 68; RIVERS IN THE MAKING, H. F. Garner, p. 84; THE EVOLUTION OF BEE LANGUAGE, Harald Esch. p. 96; ANTIMATIER AND COSMOLOGY, Hannes Alfvén, p. 106.

May: A THIRD GENERATION OF BREEDER REACTORS, T. R. Bump, p. 25; THE DIVING WOMEN OF KOREA AND JAPAN, Suk Ki Hong and Hermana Rahn, p. 34; SMALL SYSTEMS OF NERVE CELLS, Donald Kennedy, p. 44; THE VIKINGS, Eric Oxenstierna, p. 66; GENE STRUCTURE AND PROTEIN STRUCTURE, Charles Yanofsky, p. 80; VISION AND TOUCH, Irvin Rock and Charles S. Harris, p. 96; LIGHT-EMITTING SEMICONDUCTORS, Frederick F. Morehead, Jr., p. 108; Ordinary Matter, Gerald Feinberg, p. 126.

June: THE U.S. PATENT SYSTEM, J. Herbert Hollomon, p. 19; THE PRIMEVAL FIREBALL, P. J. E. Peebles and David T. Wilkinson, p. 28; TEOTHUACAN, René Millon, p. 38; MOLECULAR ISOMERS IN VISION, Ruth Hubbard and Allen Kropf, p. 64; Liquid Lasers, Alexander Lempicki and Harold Samelson, p. 80; Geological Subsidence, S. S. Marsden, Jr., and S. N. Davis, p. 93; Butterflies and Plants, Paul R. Ehrlich and Peter H. Raven, p. 104; MEMORY AND PROTEIN SYNTHESIS, BETNARD W. Agranoff, p. 115.

July: Third-Generation Pesticides, Caitoll M. Williams, p. 13; Integrated computer memories, Jan A. Rajchman, p. 18; tektites and Geomagnetic reversals, Billy P. Glass and Bruce C. Heezen, p. 32; escape from Paradox, Anatol Rapoport, p. 50; building a Bacterial virus, William B. Wood and R. S. Edgar, p. 60; the Leakage Problem in Fusion Reactors, Francis F. Chen, p. 76; pre-columbian Ridged Fields, J. J. Patsons and W. M. Denevan, p. 92; general tom thumb and other midgets, Victor A. McKusick, p. 102.

August: The Climate of Cities, William P. Lowty, p. 15; The Split Brain Inman, Michael S. Gazzaniga, p. 24; The Youngest Stars, George H. Herbig, p. 30; Mechanical Harvesting, Clarence F. Kelly, p. 50; Tetrodotoxin, Frederick A. Fuhrman, p. 60; Fossil Behavior, Adolf Seilacher, p. 72; Solid Helium, Bernard Bertman and Robert A. Guyer, p. 84; Robert Boyle, Marie Boas Hall, p. 96.

September: Materials, Cyril Stanley Smith, p. 68; the solid state, Sir Nevill Moit, p. 80; the nature of metals, A. H. Cottrell, p. 90; the nature of ceramics, John J. Gilman, p. 112; the nature of glasses, R. J. Charles, p. 126; the nature of polymeric materials, Herman F. Mark, p. 148; the nature of composite materials, Anthony Kelly, p. 160; the thermal properties of materials, John Ziman, p. 180; the electrical properties of materials, Herman Fenemach, p. 194; the Chemical properties of materials, Howard Reiss, p. 210; the magnetic properties of materials, Frederic Keffer, p. 222; the optical properties of materials, Ali Javan, p. 238; the competition of materials, W. O. Alexander, p. 254.

October: SQUATTER SETTLEMENTS, William Mangin, p. 21; LIQUID NATURAL GAS, Noel de Nevers, p. 30; THE STREAMER CHAMBER, David E. Yount, p. 38; THE SHAPE OF THE EARTH, Desmond King-Hele, p. 67; THE STRUCTURE OF ANTIBODIES, R. R. PORTER, p. 81; VISUAL ISOLATION IN GULLS, Neal Griffith Smith, p. 94; INTERSTELLAR GRAINS, J. Mayo Greenberg, p. 106; THE INTERFERENCE THEORY OF FORGETTING, John Ceraso, p. 117.

November: The sociology of the nobel prizes, Harriet Zuckerman, p. 25; The Feel of the Moon, Ronald F. Scott, p. 34; Early Man in South America, Edward P. Lanning and Thomas C. Patterson, p. 44; Lysosomes and Disease, Anthony Allison, p. 62; Rapid excavation, Thomas E. Howard, p. 74; Gravitational Collapse, Kip S. Thorne, p. 88; Maxwell's Demon, W. Ehrenberg, p. 103; The Fungus Gardens of Insects, Suzanne W. T. Batra and Lekh R. Batra, p. 112.

December: INFECTIOUS DRUG RESISTANCE, TSULOMU Watanabe, p. 19; THE EARLIEST APES, Elwyn L. Simons, p. 28; X-RAY STARS, Riccardo Giacconi, p. 36; ZONE REFINING, William G. Pfann, p. 62; HIGH-ENERGY SCATTERING, Vernon D. Barger and David B. Cline, p. 76; THE VIBRATING STRING OF THE PYTHAGOREANS, E. Eugene Helm, p. 92; NON-CANTORIAN SET THEORY, Paul J. Cohen and Reuben Hersh, p. 104; THE WATER BUFFALO, W. Ross Cockrill, p. 118.

1968

January: Earlier Maturation in Man, J. M. Tanner, p. 21; the BENEFICIATION OF IRON ORES, M. M. Fine, p. 28; How proteins start, Brian F. C. Clark and Kjeld A. Marcker, p. 36; REMOTE SENSING OF NATURAL RESOURCES, Robert N. Colwell, p. 54; The B FACTOR OF THE LLLCTRON, H. R. Crane, p. 72; THE VENOUS SYSTEM, J. Edwin Wood, p. 86; THE CIRCULATION OF THE SUN'S ATMOSPHERE, VICTOR P. Start and Peter A. Gilman, p. 100; PERPETUAL MOTION MACHINES, Stanley W. Angrist, p. 114.

February: THE ARRIVAL OF NUCLEAR POWER, John F. Hogerton, p. 21; THE MEMBRANE OF THE MITOCHONDRION, Efraim Racker, p. 32; ADVANCES IN HOLOGRAPHY, Keith S. Pennington, p. 40; THE EVOLUTION OF PALEOLITHIC ART, André Leroi-Gourhan, p. 58; JUPITER'S GREAT RED SPOT, Raymond Hide, p. 74; DEATH FROM STAPHYLOCOCCI, Ian Maclean Smith, p. 84; STUDIES IN SELF-ESTEEM, Stanley Coopersmith, p. 96; THE MIGRATION OF POLAR BEARS, Vagn Flyger and Marjorie R. Townsend, p. 108.

March: ANTI-BALLISTIC-MISSILE SYSTEMS, R. L. Garwin and H. A. Bethe, p. 21; HUMAN CELLS AND AGING, Leonard Hayflick, p. 32; OBSIDIAN AND THE ORIGINS OF TRADE, J. E. Dixon, J. R. Cann and Colin Renfrew, p. 38; THE AUTOMATIC SYNTHESIS OF PROTEINS, R. B. Merrifield, p. 56; BILINGUALISM AND INFORMATION PROCESSING, Paul A. Kolers, p. 78; CHANNELING IN CRYSTALS, Werner Brandt, p. 90; PULSE-CODE MODULATION, J. S. Mayo, p. 102; THE ADJUSTABLE BRAIN OF HIBERNATORS, N. MITOSOVSKY, p. 110.

April: TEACHER EXPECTATIONS FOR THE DISADVANTAGED, ROBERT ROSENTHAI AND LENORE F. JACOBSON, p. 19; OXYGEN IN STEELMAKING, JOSEPH K. Stone, p. 24; PHOTON ECHOES, SVEN R. HARTMANN, p. 32; THE CONFIRMATION OF CONTINENTAL DRIFT, PATRICK M. HURLEY, p. 52; TETANUS, W. E. VAN HEYNINGEN, p. 69; POLLEN, PATRICK ECHLIN, p. 80; THE QANATS OF IRAN, H. E. Wulff, p. 94; THE SEXUAL LIFE OF A MOSQUITO, JACK COLVARD JONES, p. 108.

May: The three spectroscopies, Victor F. Weisskopf, p. 15; the tartaria teblets, M. S. F. Hood, p. 30; the heat pipe, G. Yale Eastman, p. 38; the lunar orbiter missions to the moon, Ellis Levin, Donald D. Viele and Lowell B. Eldrenkamp, p. 58; the flight-control system of the locust, Donald M. Wilson, p. 83; leibniz, Frederick C. Kreiling, p. 94; the biochemistry of copper, Earl Frieden, p. 102; territorial marking by rabbits, Roman Mykytowycz, p. 116.

June: THE MODULATION OF LASER LIGHT, Donald F. Nelson, p. 17; A STONE AGE CAMPSITE AT THE GATEWAY TO AMERICA, Douglas D. Anderson, p. 24; STARS IN CONTACT, O. J. Eggen, p. 34; STANDARDS OF MEASUREMENT, Allen V. Astin, p. 50; THE BRAIN OF BIRDS, Laurence Jay Stettner and Kenneth A. Matyniak, p. 64; THE DISCOVERY OF DNA, Alfred E. Mirsky, p. 78; POLISHING, Ernest Rabinowicz, p. 91; PLANTS WITHOUT CELLULOSE, R. D. Preston, p. 102.

July: Intensive Heart Care, Bernard Lown, p. 19; Radar Observations of the Planets, Irwin I. Shapiro, p. 28; Sunburn, Farrington Daniels, Jr. et al., p. 38; X-ray Crystallography, Sir Lawrence Bragg, p. 58; the Control of Plant Growth, Johannes van Overbeek, p. 75; the Beginnings of Wheeled Transport, Stuart Piggott, p. 82; Fluidization, H. William Flood and Bernard S. Lee, p. 94; Hidden Lives, Theodore H. Savory, p. 108.

August: A STUDY OF GHETTO RIOTERS, Nathan S. Caplan and Jeffery M. Paige, p. 15; HIGH-POWER CARBON DIOXIDE LASERS, C. K. N. Patel, p. 22; L-ASPARAGINE AND LEUKEMIA, Lloyd J. Old et al., p. 34; THE INFRARED SKY, G. Neugebauer and Robert B. Leighton, p. 50; EXPERIMENTS IN WATER-BREATHING, Johannes A. Kylstra, p. 66; THE ORIGINS OF THE OLYMPIC GAMES, Raymond Bloch, p. 78; MOVEMENTS OF THE EYE, E. Llywellyn Thomas, p. 88; QUEUES, Martin A. Leibowitz, p. 96.

September: LIGHT, Gerald Feinberg, p. 50; How LIGHT INTERACTS WITH MATTER, Victor F. Weisskopf, p. 60; How LIGHT IS ANALYZED, Pierre Connes, p. 72; How IMAGES ARE FORMED, F. Dow Smith, p. 96; How IMAGES ARE DETECTED, R. Clark Jones, p. 110; LASER LIGHT, Arthur L. Schawlow, p. 120; APPLICATIONS OF LASER LIGHT, Donald R. Herriott, p. 140; THE CHEMICAL EFFECTS OF LIGHT, Gerald Oster, p. 158; How LIGHT INTERACTS WITH LIVING MATTER, Sterling B. Hendricks, p. 174; THE CONTROL OF THE LUMINOUS ENVIRONMENT, James Marston Fitch, p. 190; THE PROCESSES OF VISION, Ulric Neisser, p. 204.

October: Pulsars, Antony Hewish, p. 25; Surgery for Coronary Disease, Donald B. Effler, p. 36; Chemical accelerators, Richard Wolfgang, p. 44; The synthesis of DNA, Arthur Kornberg, p. 64; Cargo-Handling, Roger H. Gilman, p. 80; How fast can computers add?, Shmuel Winograd, p. 93; AIR-BREATHING FISHES, Kjell Johansen, p. 102; HOMO MONSTROSUS, Annemarie de Waal Malefijt, p. 112.

November: THE DIMENSIONS OF WORLD POVERTY, David Simpson, p. 27; STRONG AND DUCTILE STEELS, Earl R. Parker and Victor F. Zackay, p. 36;

THE PREVENTION OF "RHESUS" BABIES, C. A. CLIPKE, p. 46; VISUAL ILLUSIONS, Richard L. Gregory, p. 66; ARTHICIAL PLASMA CLOUDS IN SPACE, G. Haerendel and R. Lust, p. 80; A hunters, Village in Neolithic Turkey, Dexter Perkins, Jr., and Patricia Daly, p. 96; Transdetlemination in cells, Ernst Hadofn, p. 110, the aerodynamics of Boomerangs, Felix Hess, p. 124.

December: Economic Growth in the USSR, Raymond P. Powell, p. 17; Transplanted nuclei and celled if erfinitation, J. B. Gurdon, p. 24; Radio Signals from hydroxyl radicals, Alan H. Barrett, p. 36; Seafloor spreading, J. R. Hehtzler, p. 60; Fog, Joel N. Meyers, p. 74; The relativism of absolute judgments, Allen Parducci, p. 84; Resonant combustion in rockets, J. G. Sotter and G. A. Flandro, p. 94; Human stones, Kathleen Lonsdale, p. 104.

1969

January: Abortion, Christopher Tietze and Sarah Lewit, p. 21; seyfert Galaxies, Ray J. Weymann, p. 28; cellular factors in genetic transformation, A. Tomasz, p. 38; weather satellites ii, Arthur W. Johnson, p. 52; the neurophysiology of remembering, Karl H. Pribram, p. 73; the eland and the oryx, C. R. Taylor, p. 88; the control of vibration and noise, Theodote P. Yin, p. 98; life on the human skin, Mary J. Marples, p. 108; the dance of the solids, John Updike, p. 130.

February: THE END OF THE MONKEY WAR, L. Sprague de Camp, p. 15; ECOLOGICAL CHEMISTRY, Lincoln Pierson Brower, p. 22; ORGANIC LASERS, Peter Sorokin, p. 30; THE ASTROPHYSICS OF COSMIC RAYS, V. L. GINZBURG, p. 50; THE BIOCHEMISTRY OF ANXIETY, FERTIS N. PILIS, Jr., p. 69; SUBSISTENCE HERDING IN UGANDA, Rada and Neville Dyson-Hudson, p. 76; ROTARY ENGINES, Wallace Chimiz, p. 90, THE GOLGI APPARATUS, MARIAN Neutra and C. P. Leblond, p. 100.

March: THERMAL POLLUTION AND AQUATIC LIFE, John R. Clark, p. 18; SUPERPLASTIC METALS, H. W. Hayden, R. C. Gibson and J. H. Brophy, p. 28; Phases in Cell differentiation, Norman K. Wessells and Wilham J. Rutter, p. 36; Continental Drift and Evolution, Bjótn Kurtén, p. 54; BROWNIAN MOTION AND POTENTIAL THEORY, Reuben Hersh and Richard J. Griego, p. 66; The atmospheres of Mars and Venus, Von R. Eshleman, p. 78; Plague Toxin, Salomon Kadis, Thomas C. Montie and Samuel J. Ajl, p. 92; The First electron tube, George Shiers, p. 104.

April: The dynamics of the arms race, George W. Rathjens, p. 15, hybrid somatic cells, Boris Ephrussi and Mary C. Weiss, p. 26; eidetic images, Raiph Norman Haber, p. 36; the synthetic elements iv, Glenn T. Seaborg and Justin L. Bloom, p. 56; stone tools and human behavior, Sally R. and Lewis R. Binford, p. 70, soil pollutants and soil animals, Clive A. Edwards, p. 88, steam turbines, Walter Hossh, p. 100; horns and antlers, Walter Modell, p. 114

May: Hybrid wheat, Byid C Curtis and David R. Johnston, p 21, Relaxation methods in chemistry, Larry Faller, p 30; a paleolithic camp at nice, Henry de Lumley, p 42, typesetting, Gerard O Walter, p. 60; the energetics of bird flight, Vance A Tucker, p. 70, shock waves in solids, Ronald K Linde and R C Crewdson, p 82; the bacterial cell wall, Nathan Shafon, p. 92; retinal processing of visual images, Charles R Michael, p. 104

June: SCIENCE POLICY IN THE USSR., R. W. Davies and R. Amann, p. 19, NUCLEAR TRACKS IN SOLIDS, R. L. Fleischer, P. B. Price and R. M. Walker, p. 30; WOUND HEALING, RUSSEIL ROSS, p. 40, TRUTH AND PROOF, Alfred Tarski, p. 63, HORMONES IN SOCIAL AMOEBAE AND MAMMALS, John Tyler Bonner, p. 78; ULTRAVIOLET ASTRONOMY, Leo Goldberg, p. 92; THE PHALAROPE, E. OITO HOMM, p. 104; ANALYTIC INSTRUMENTS IN PROCESS CONTROL, F. W. Karasek, p. 112.

July: Systems analysis of urban transportation, William F. Hamilton II and Dana K. Nance, p. 19; neutrinos from the sun, John N. Bahcall, p. 28; forphyria and king george III, Ida Macalpine and Richard Hunter, p. 38, Milk, Stuart Patton, p. 58; liquid metals, N. W. Ashcroft, p. 72; computer analysis of protein evolution, Margaret Oakley Dayhoff, p. 86, high temperature plastics, A. H. Frazer, p. 96, urban monneys, Sheo Dan Singh, p. 108.

August: MILITARY TECHNOLOGY AND NATIONAL SECURITY, Herbert F York, p. 17; "GENETIC DRIFT" IN AN ITALIAN POPULATION, Luigi Luca Cavalli-Sforza, p. 30; METALLIDING, Newell C. Cook, p. 38, THE SIZE AND SHAPL OF ATOMIC NUCLLI, Michel Baranger and Raymond A Sofensen, p. 58; THE PETROGLYPHS OF SIBERIA, A. P. Okladnikov, p. 74, KERATINS, R. D. R. Fraser, p. 86; THE WEDDELL SEAL, Gerald L. Kooyman, p. 100, RUDOLF DILSEL AND HIS RATIONAL ENGINE, LYNWOOD BRYANL, p. 108

September: THE OCLAN, Roger Revelle, p. 54; THE ORIGIN OF THEOTEANS, SIR Edward Bullard, p. 66; THE ATMOSPHERE AND THE OCEAN, R. W. Siewari, p. 76; THE CONTINENTAL SHELVES, K. O. Emery, p. 106, THE DEEP OCEAN FLOOR, H. W. Menard, p. 126; THE NATURE OF OCEANICLIFE, John D. Isaacs, p. 146; THE PHYSICAL RESOURCES OF THE OCEAN, Edward Wenk, Jr., p. 166; THE FOOD RESOURCES OF THE OCEAN, S. J. HOIL, p. 178, TECHNOLOGY AND THE OCEAN, Willard Bascom, p. 198; THE OCEANAND MAN, Warren S. Woosier, p. 218.

October: THE COST OF WORLD ARMAMENTS, Archibald S. Alexander, p. 21; RIBOSOMES, Masayasu Nomura, p. 28; Acoustical Holography, Alexander F. Metherell, p. 36; THE EXPLORATION OF THE MOON, Wilmot Hess et al., p. 54; Brain Damage by Asphyxia at Birth, William F. Windle, p. 76; Experiments in time Reversal, Oliver E. Overseth, p. 88, THE PHYSIOLOGY OF THE HOUSE MOUSE, Daniel S. Ferug and Vaughan W. Edmonds, p. 103, THE POSSESSIONS OF THE POOR, OSCAY LEWIS, p. 114

November: Acute respiratory failure, Peier M. Winter and Edward Lowenstein, p. 23amorphous-semiconductor switching, H. K. Hemisch, p. 30; Early man in the west indies, Jose M. Cruxent and Irving Rouse, p. 42; Magnetic recording, Victor E. Ragosine, p. 70, Non Euclidean Geometry Before Euclid, Impe Toth, p. 87, Theorigin of the Oceanic Ridges, Egon Otowan, p. 102; The Receptor Site for a Bacterial Virus, Richard Losick and Phillips W. Robbins, p. 120, How Birds sing, Crawford H. Greenewalt, p. 126

December: Marihuana, Lester Grinspoon, p 17; New Methods for approaching absolute zero, O. V. Lounasmaa, p 26, the rise and fall of arabia felix, Gus W. Van Beek, p. 36, the mechanism of photosynthesis, R. P. Levine, p 58; dermatoglyphics, L. S. Peniose, p. 72; measuring earth strains by laser, Victor Vali, p 88, how an instinct is learned, Jack P. Hailman, p 98, the peculiar distribution of first digits, p 109, a new year greeting, W. H. Auden, p 134

1970

January: The Limitation of Strategic arms, G. W. Rathjens and G. B. Kistiakowsky, p. 19; Learning in the autonomic nervous system, Leo V. Dicara, p. 30, aerodynamic whistles, Robert C. Chanaud, p. 40, the shapes of organic molecules, Joseph B. Lambert, p. 58, gigantopithecus, Elwyn L. Simons and Peter C. Ettel, p. 76, the recognition of DNA in Bacteria, Salvador E. Lutia, p. 88, the people of york 1538 1812, Utsula M. Cowgill, p. 104; models of oceanic circulation, D. James Baker Jr., p. 114

February: The assessment of technology, Harvey Brooks and Raymond Bowers, p. 13; Large-scale integration in electronics, F. G. Heath, p. 22, The afar triangle, Haroun Tazieff, p. 32, The physiology of high altitude, Raymond J. Hock, p. 52, Particles that go faster than light, Gerald Feinberg, p. 68, Phosphenes, Gerald Oster, p. 82, The rangelands of the Western Us, R. Merion Love, p. 88, Cell surgery by laser, Michael H. Berns and Donald E. Rounds, p. 98

March: The Economic Growth of Japan, James C Abeggien, p 31, the Lunar Laser reflector, James E Faller and E Joseph Wampler, p 38, an Early Farming Village in Turkey, Halet Çambel and Robert J Braidwood, p 50, the functional organization of the Brain, A R Luna, p. 66, inertial navigation for aircraft, Cornelius T Leondes, p 80, how an eggshell is made, T G Taylor, p 88, genetic Load, Christopher Wills, p 98, monomolecular layers and light, Karl H Drexhage, p 108

April: THE DELIVERY OF MEDICAL CARE, Sidney R. Garfield, p. 15, REPEATED SEGMENTS OF DNA, ROY J. Britten and David E. Kohne, p. 24, THE RED SEA HOT BRINES, Egon T. Degens and David A. Ross, p. 32, CHEMISTRY BY COMPUTER, Arnold C. Wahl, p. 54, PLSTICIDES AND THE REPRODUCTION OF BIRDS, David B. Peakall, p. 72, HOW IS MUSCLE TURNED.

on and off?, Graham Hoyle, p. 84; hyperactive children, Mark A. Stewart, p. 94; liquid-crystal display devices, George H. Heilmeier, p. 100.

May: CHEMICAL AND BIOLOGICAL WEAPONS, Matthew S. Meselson, p. 15; THE SURFACE OF MARS, Robert B. Leighton, p. 26; THE CALEFACTION OF A RIVER, Daniel Merriman, p. 42; SULFUR, Christopher J. Pratt, p. 62; INTERCELLULAR COMMUNICATION, Werner R. Loewenstein, p. 78; "SECOND SOUND" IN SOLID HELIUM, BERNARD BERTMAN AND DAVIS J. SANDIFORD, p. 92; HOW WE REMEMBER WHAT WE SEE, Ralph Norman Haber, p. 104; EARLY VIEWS ON FORCES BETWEEN ATOMS, Leslie Holliday, p. 116.

June: "SILENT MAJORITIES" AND THE VIETNAM WAR, Philip E. Converse and Howard Schuman, p. 17; THE ORIGIN OF GALAXIES, MARTIN J. Rees and Joseph Silk, p. 26; GENETIC REPRESSORS, MARK Ptashne and Walter Gilbert, p. 36; COMPUTER DISPLAYS, IVAN E. Sutherland, p. 56; HOW SNAKES MOVE, Carl Gans, p. 82; NEOGLACIATION, GEORGE H. DENION and Stephen C. PORIER, p. 100; AN ARCHAIC INDIAN CEMETERY IN NEWFOUNDLAND, James A. Tuck, p. 112; THE CLOCK OF THE MALARIA PARASITE, Frank Hawking, p. 123.

July: Conversion to the metric system, Lord Ritchie-Calder, p. 17; Globular-Cluster stars, Icko Iben, Jr., p. 26; the multiple sclerosis problem, Geoffrey Dean, p. 40; nerve cells and behavior, Eric R. Kandel, p. 57; negative viscosity, Victor P. Start and Norman E. Gaut, p. 72; the love song of the fruit fly, H. C. Bennet-Clark and A. W. Ewing, p. 84; network analysis, Howard Frank and Ivan T. Frisch, p. 94; population trends in an indian village, Carl E. Taylor, p. 106.

August: The Lunar soil, John A. Wood, p. 14; Tandem van de Graaff accelerators, Peter H. Rose and Andrew B. Wittkower, p. 24; the structure and function of antibodies, Gerald M. Edelman, p. 34; a world agricultural plan, Addeke H. Boetma, p. 54; free radicals in biological systems, William A. Pryor, p. 70; insect eggshells, H. E. Hinton, p. 84; medieval uses of air, Lynn White, Jr., p. 92; the origin of personality, Alexander Thomas, Stella Chess and Herbert G. Birch, p. 102.

September: The Biosphere, G. Evelyn Hutchinson, p. 44; the Energy Cycle of the Earth, Abraham H. Oorl, p. 54; the Energy Cycle of the Biosphere, George M. Woodwell, p. 64; the water cycle, H. L. Penman, p. 98; theoxygen cycle, Preston Cloud and Aharon Gibor, p. 110; the Carbon Cycle, Bert Bolin, p. 124; the nitrogen cycle, C. C. Delwiche, p. 136; mineral cycles, Edward S. Deevey, Jr., p. 148; human food Production as a process in the Biosphere, Lester R. Brown, p. 160; human energy production as a process in the Biosphere, S. Fred Singer, p. 174; human materials production as a process in the Biosphere, Harrison Brown, p. 194.

October: INTELLIGENCE AND RACE, Walter F. Bodmer and Luigi Luca Cavalli-Sforza, p. 19; The Breakup of Pangaea, Robert S. Dietz and John C. Holden, p. 30; Calcitonin, Howard Rasmussen and Maurice M. Pechet, p. 42; The Fundamental Physical Constants, Baity N. Taylor, Donald N. Langenberg and William H. Parker, p. 62; Visual Cells, Richard W. Young, p. 80; The Nutrient Cycles of an Ecosystem, F. Herbert Bormann and Gene E. Likens, p. 92; Computers in Eastern Europe, Ivan Berenyi, p. 102; The Origins of Feedback Control, Otto Mayer, p. 110.

November: FAST BREEDER REACTORS, Glenn T. Seaborg and Justin L. Bloom, p. 13; THE GENETIC ACTIVITY OF MITOCHONDRIA AND CHLOROPLASTS, Ursula W. Goodenough and R. P. Levine, p. 22; WOODHENGES, Geoffrey Wainwright, p. 30; Superdense water, Boris V. Derjagnin, p. 52; Automatic analysis of Blood cells, Marylou Ingram and Kendall Preston, Jr., p. 72; THE GREAT ALBATROSSES, W. L. N. Tickell, p. 84; EXPERIMENTS IN INTERGROUP DISCRIMINATION, Henri Tajfel, p. 96; WHY THE SEA IS SALT, FETTEN MacIntyre, p. 104.

December: MARINE FARMING, Gifford B. Pinchol, p. 14; THE ABSORPTION LINES OF QUASI-STELLAR OBJECTS, E. Margaret Burbidge and C. Roger Lynds, p. 22; AUDITORY ILLUSIONS AND CONFUSIONS, Richard M. Warten and Roslyn P. Warten, p. 30; HUMAN EMBRYOS IN THE LABORATORY, R. G. Edwards and Ruth E. Fowler, p. 44; OPTICAL INTERFERENCE COATINGS, Philip Baumeister and Gerald Pincus, p. 58; RICKETS, W. F. Loomis, p. 76; PERMANENT MAGNETS, Joseph J. Becker, p. 92; THE MULE, Theodore H. Savory, p. 102.

1971

January: The Limitation of Offensive Weapons, Herbert Scoville, Jr., p. 15; stress and Behavior, Seymour Levine, p. 26; the Global Circulation of atmospheric pollutants, Reginald E. Newell, p. 32; the nature of pulsars, Jeremiah P. Ostriker, p. 48; reflectors in fishes, Eric Denion, p. 64; circuit breakers, Werner Rieder, p. 76; induced mutations in plants, Björn Sigurbjörnsson, p. 86; the origins of hypodermic medication, Norman Howard-Jones, p. 96.

February: Lead Poisoning, J. Julian Chisolm, Jr., p. 15; solid Stars, Malvin A. Ruderman, p. 24; the iroquois confederacy, James A. Tuck, p. 32; the prospects of fusion power, William C. Gough and Bernard J. Eastlund, p. 50; Giant Brain Cells in Mollusks, A. O. D. Willows, p. 68; the fastest computer, D. L. Slotnick, p. 76; the state of water in red cells, Arthur K. Solomon, p. 88; Leonardo on Bearings and Gears, Ladislao Reti, p. 100.

March: Performance Criteria in Building, James R. Wright, p. 16; Enzymes Bound to artificial matrixes, Klaus Mosbach, p. 26; the therapeutic community, Richard Almond, p. 34; unsolved problems in artithmetic, Howard Delong, p. 50; phychological tremor, Olof Lippold, p. 65; the magnetic structure of superconductors, Uwe Essmann and Hermann Träuble, p. 74; communication between ants and their guests, Bert Hölldobler, p. 86; on telling left from right, Michael C. Corballis and Ivan L. Beale, p. 96.

April: Government investment in Health Care, Irving J. Lewis, p. 17; a high-resolution scanning electron microscope, Albert V. Crewe, p. 26; early man in the andes, Richard S. MacNeish, p. 36; advances in pattern recognition, Richard G. Casey and George Nagy, p. 56; annual biological clocks, Eric T. Pengelley and Sally J. Asmundson, p. 72; superconductivity at high pressure, N. B. Brandt and N. J. Ginzburg, p. 83; hailstones, Charles and Nancy Knight, p. 96; the mapping of human chromosomes, Victor A. McKusick, p. 104.

May: MERCURY IN THE ENVIRONMENT, Leonard J. Goldwater, p. 15; THE DETECTION OF GRAVITATIONAL WAVES, JOSEPH WEBER, p. 22; THE OLDEST FOSSILS, EISO S. Barghooth, p. 30; THE EVOLUTION OF QUASARS, Maarten Schmidt and Francis Bello, p. 54; COOLING TOWERS, Riley D. Woodson, p. 70; THE INDUCTION COIL, GEORGE Shiers, p. 80; THE FORTIFICATION ILLUSIONS OF MIGRAINES, Whitman Richards, p. 88; THE CHEMICAL LANGUAGES OF FISHES, John H. Todd, p. 98.

June: Fusion by Lasers, Moshe J. Lubin and Arthur P. Fraas, p. 21; EYE MOVEMENTS AND VISUAL PERCEPTION, David Noton and Lawrence Stark, p. 34; ELASTIC FIBERS IN THE BODY, Russell Ross and Paul Bornstein, p. 44; THE STRUCTURE OF THE PROTON AND THE NEUTRON, Henry W. Kendall and Wolfgang Panofsky, p. 60; MAGNETIC BUBBLES, Andrew H. Bobeck and H. E. D. Scovil, p. 78; ENDEMIC GOITER, R. Bruce Gillie, p. 92; AN EARLY CITY IN IRAN, C. C. and Martha Lamberg-Karlovsky, p. 102; THE SOCIAL ORDER OF TURKEYS, C. Robert Watts and Allen W. Stokes, p. 112.

July: The Census of 1970, Philip M. Hauser, p. 17; The Induction of Interferon, Maurice R. Hilleman and Alfred A. Tytell, p. 26; A NEW CLASS OF DIODE LASERS, Morton B. Panish and Izuo Hayashi, p. 32; Pathways in the Brain, Lennart Heimer, p. 48; The Sacred Source of the Seine, Simone-Antoinette Deyts, p. 65; Supernova Remnants, Paul Gorenstein and Wallace Tucker, p. 74; A Grazing Ecosystem in the Serengeti, Richard H. V. Bell, p. 86; Photons as Hadrons, Frederick Murphy and David E. Yount, p. 94.

August: Cholera, Norbert Hirschhorn and William B. Greenough III, p. 15; a byzantine trading venture, George F. Bass, p. 22; high-lysine corn, Dale D. Harpstead, p. 34; symbiosis and evolution, Lynn Margulis, p. 48; the magnetism of the moon, Palmer Dyal and Curtis W. Parkin, p. 62; flight orientation in locusts, Jeffrey M. Camhi, p. 74; the control of the short-term memory, Richard C. Atkinson and Richard M. Shiffrin, p. 82; new models of the real-number line, Lynn Arthur Steen, p. 92.

September: ENERGY AND POWER, Chauncey Start, p. 36; ENERGY IN THE UNIVERSE, Freeman J. Dyson, p. 50; THE ENERGY RESOURCES OF THE EARTH, M. King Hubbert, p. 60; THE FLOW OF ENERGY IN THE BIOSPHERE, David M. Gates, p. 88; THE FLOW OF ENERGY IN A HUNTING SOCIETY, William B. Kemp, p. 104; THE FLOW OF ENERGY IN AN AGRICULTURAL



THE PREVENTION OF "RHESUS" BABIES, C. A. Clarke, p. 46; VISUAL ILLUSIONS, Richard L. Gregory, p. 66; ARTIFICIAL PLASMA CLOUDS IN SPACE, G. Haerendel and R. Lüst, p. 80; A HUNTERS': VILLAGE IN NEOLITHIC TURKEY, Dexter Perkins, Jr., and Patricia Daly, p. 96; TRANSDETERMINATION IN CELLS, Ernst Hadorn, p. 110; THE AERODYNAMICS OF BOOMERANGS, Felix Hess, p. 124.

December: ECONOMIC GROWTH IN THE U.S.S.R., Raymond P. Powell, p. 17; TRANSPLANTED NUCLEI AND CELL DIFFERENTIATION, J. B. Gurdon, p. 24; RADIO SIGNALS FROM HYDROXYL RADICALS, Alan H. Barrett, p. 36; SEA-FLOOR SPREADING, J. R. Heirtzler, p. 60; Fog, Joel N. Meyers, p. 74; THE RELATIVISM OF ABSOLUTE JUDGMENTS, Allen Parducci, p. 84; RESONANT COMBUSTION IN ROCKETS, J. G. Sotter and G. A. Flandro, p. 94; HUMAN STONES, Kathleen Lonsdale, p. 104.

1969

January: Abortion, Christopher Tietze and Sarah Lewit, p. 21; seyfert Galaxies, Ray J. Weymann, p. 28; cellular factors in genetic transformation, A. Tomasz, p. 38; weather satellites: II, Arthur W. Johnson, p. 52; the neurophysiology of remembering, Karl H. Pribram, p. 73; the eland and the oryx, C. R. Taylor, p. 88; the control of vibration and noise, Theodore P. Yin, p. 98; life on the human skin, Mary J. Marples, p. 108; the dance of the solids, John Updike, p. 130.

February: THE END OF THE MONKEY WAR, L. Sprague de Camp, p. 15; ECOLOGICAL CHEMISTRY, Lincoln Pierson Brower, p. 22; ORGANIC LASERS, Peter Sorokin, p. 30; THE ASTROPHYSICS OF COSMIC RAYS, V. L. Ginzburg, p. 50; THE BIOCHEMISTRY OF ANXIETY, FEITIS N. Pitts, Jr., p. 69; SUBSISTENCE HERDING IN UGANDA, Rada and Neville Dyson-Hudson, p. 76; ROTARY ENGINES, Wallace Chinitz, p. 90; THE GOLGI APPARATUS, Marian Neutra and C. P. Leblond, p. 100.

March: THERMAL POLLUTION AND AQUATIC LIFE, John R. Clark, p. 18; SUPERPLASTIC METALS, H. W. Hayden, R. C. Gibson and J. H. Brophy, p. 28; PHASES IN CELL DIFFERENTIATION, Norman K. Wessells and William J. Rutter, p. 36; CONTINENTAL DRIFT AND EVOLUTION, Björn Kurtén, p. 54; BROWNIAN MOTION AND POTENTIAL THEORY, Reuben Hersh and Richard J. Griego, p. 66; THE ATMOSPHERES OF MARS AND VENUS, Von R. Eshleman, p. 78; PLAGUE TOXIN, Salomon Kadis, Thomas C. Montie and Samuel J. Ajl, p. 92; THE FIRST ELECTRON TUBE, George Shiers, p. 104.

April: THE DYNAMICS OF THE ARMS RACE, George W. Rathjens, p. 15; HYBRID SOMATIC CELLS, Boris Ephrussi and Mary C. Weiss, p. 26; EIDETIC IMAGES, Ralph Norman Haber, p. 36; THE SYNTHETIC ELEMENTS: IV, Glenn T. Seaborg and Justin L. Bloom, p. 56; STONE TOOLS AND HUMAN BEHAVIOR, Sally R. and Lewis R. Binford, p. 70; SOIL POLLUTANTS AND SOIL ANIMALS, Clive A. Edwards, p. 88; STEAM TURBINES, Walter Hossli, p. 100; HORNS AND ANTLERS, Walter Modell, p. 114.

May: HYBRID WHEAT, BYID C. Curtis and David R. Johnston, p. 21; RELAXATION METHODS IN CHEMISTRY, Larry Faller, p. 30; A PALEOLITHIC CAMP AT NICE, Henry de Lumley, p. 42; TYPESETTING, GERARD O. Walter, p. 60; THE ENERGETICS OF BIRD FLIGHT, Vance A. Tucker, p. 70; SHOCK WAVES IN SOLIDS, Ronald K. Linde and R. C. Crewdson, p. 82; THE BACTERIAL CELL WALL, Nathan Sharon, p. 92; RETINAL PROCESSING OF VISUAL IMAGES, Charles R. Michael, p. 104.

June: SCIENCE POLICY IN THE U.S.S.R., R. W. Davies and R. Amann, p. 19; NUCLEAR TRACKS IN SOLIDS, R. L. Fleischer, P. B. Price and R. M. Walker, p. 30; WOUND HEALING, RUSSEll Ross, p. 40; TRUTH AND PROOF, Alfred Tarski, p. 63; HORMONES IN SOCIAL AMOEBAE AND MAMMALS, John Tyler Bonner, p. 78; ULTRAVIOLET ASTRONOMY, Leo Goldberg, p. 92; THE PHALAROPE, E. Otto Höhn, p. 104; ANALYTIC INSTRUMENTS IN PROCESS CONTROL, F. W. Karasek, p. 112.

July: SYSTEMS ANALYSIS OF URBAN TRANSPORTATION, William F. Hamilton II and Dana K. Nance, p. 19; NEUTRINOS FROM THE SUN, John N. Bahcall, p. 28; PORPHYRIA AND KING GEORGE III, Ida Macalpine and Richard Hunter, p. 38; MILK, Stuart Patton, p. 58; LIQUID METALS, N. W. Ashcroft, p. 72; COMPUTER ANALYSIS OF PROTEIN EVOLUTION, Margaret Oakley Dayhoff, p. 86; HIGH-TEMPERATURE PLASTICS, A. H. Frazer, p. 96; URBAN MONKEYS, Sheo Dan Singh, p. 108.

August: MILITARY TECHNOLOGY AND NATIONAL SECURITY, Herbert F. York, p. 17; "GENETIC DRIFT" IN AN ITALIAN POPULATION, Luigi Luca Cavalli-Sforza, p. 30; METALLIDING, Newell C. Cook, p. 38; THESIZEAND SHAPE OF ATOMIC NUCLEI, Michel Baranger and Raymond A. Sorensen, p. 58; THE PETROGLYPHS OF SIBERIA, A. P. Okladníkov, p. 74; KERATINS, R. D. R. Fraser, p. 86; THE WEDDELL SEAL, GERAL L. KOOYMAN, p. 100; RUDOLF DIESEL AND HIS RATIONAL ENGINE, LYNWOOD Bryant, p. 108.

September: THE OCEAN, Roger Revelle, p. 54; THE ORIGIN OF THE OCEANS, Sir Edward Bullard, p. 66; THE ATMOSPHERE AND THE OCEAN, R. W. Stewart, p. 76; THE CONTINENTAL SHELVES, K. O. Emery, p. 106; THE DEEP-OCEAN FLOOR, H. W. Menard, p. 126; THE NATURE OF OCEANIC LIFE, John D. Isaacs, p. 146; THE PHYSICAL RESOURCES OF THE OCEAN, Edward Wenk, Jr., p. 166; THE FOOD RESOURCES OF THE OCEAN, S. J. Holt, p. 178; TECHNOLOGY AND THE OCEAN, Willard Bascom, p. 198; THE OCEAN AND MAN, Warren S. Wooster, p. 218.

October: THE COST OF WORLD ARMAMENTS, Archibald S. Alexander, p. 21; RIBOSOMES, Masayasu Nomura, p. 28; ACOUSTICAL HOLOGRAPHY, Alexander F. Metherell, p. 36; THE EXPLORATION OF THE MOON, Wilmot Hess et al., p. 54; BRAIN DAMAGE BY ASPHYXIA AT BIRTH, William F. Windle, p. 76; EXPERIMENTS IN TIME REVERSAL, Oliver E. Overseth, p. 88; THE PHYSIOLOGY OF THE HOUSE MOUSE, Daniel S. Fertig and Vaughan W. Edmonds, p. 103; THE POSSESSIONS OF THE POOR, OSCAR Lewis, p. 114.

November: Acute respiratory failure, Peter M. Winter and Edward Lowenstein, p. 23amorphous-semiconductor switching, H. K. Henisch, p. 30; early man in the west indies, José M. Crixent and Irving Rouse, p. 42; magnetic recording, Victor E. Ragosine, p. 70; non-euclidean geometry before euclid, Imre Tóth, p. 87; theorigin of the oceanic ridges, Egon Orowan, p. 102; the receptor stefor a bacterial virus, Richard Losick and Phillips W. Robbins, p. 120; how birds sing, Crawford H. Greenewalt, p. 126.

December: Marihuana, Lester Grinspoon, p. 17; New Methods for approaching absolute zero, O. V. Lounasmaa, p. 26; the rise and fall of arabia felix, Gus W. Van Beek, p. 36; the mechanism of photosynthesis, R. P. Levine, p. 58; dermatoglyphics, L. S. Penfose, p. 72; measuring earth strains by laser, Victor Vali, p. 88; how an instinct is learned, Jack P. Hailman, p. 98; the peculiar distribution of first digits, p. 109; a new year greeting, W. H. Auden, p. 134.

1970

January: THE LIMITATION OF STRATEGIC ARMS, G. W. Rathjens and G. B. Kistiakowsky, p. 19; LEARNING IN THE AUTONOMIC NERVOUS SYSTEM, Leo V. DiCara, p. 30; AERODYNAMIC WHISTLES, Robert C. Chanaud, p. 40; THE SHAPES OF ORGANIC MOLECULES, Joseph B. Lambert, p. 58; GIGANTOPITHECUS, Elwyn L. Simons and Peter C. Ettel, p. 76; THE RECOGNITION OF DNA IN BACTERIA, Salvador E. Luria, p. 88; THE PEOPLE OF YORK: 1538-1812, Ursula M. Cowgill, p. 104; MODELS OF OCEANIC CIRCULATION, D. James Baker Jr., p. 114.

February: THE ASSESSMENT OF TECHNOLOGY, Harvey Brooks and Raymond Bowers, p. 13; LARGE-SCALE INTEGRATION IN ELECTRONICS, F. G. Heath, p. 22; THE AFAR TRIANGLE, Haroun Tazieff, p. 32; THE PHYSIOLOGY OF HIGH ALTITUDE, Raymond J. Hock, p. 52; PARTICLES THAT GO FASTER THAN LIGHT, Gerald Feinberg, p. 68; PHOSPHENES, Gerald Oster, p. 82; THE RANGELANDS OF THE WESTERN U.S., R. Merton Love, p. 88; CELL SURGERY BY LASER, Michael H. Berns and Donald E. Rounds, p. 98.

March: The economic growth of Japan, James C. Abeggien, p. 31; the lunar laser reflector, James E. Faller and E. Joseph Wampler, p. 38; an early farming village in turkey, Halet Çambel and Robert J. Braidwood, p. 50; the functional organization of the brain, A. R. Luria, p. 66; inertial navigation for aircraft, Cotnelius T. Leondes, p. 80; how an eggshell is made, T. G. Taylor, p. 88; genetic load, Christopher Wills, p. 98; monomolecular layers and light, Karl H. Drexhage, p. 108.

April: THE DELIVERY OF MEDICAL CARE, Sidney R. Garfield, p. 15; REPEATED SEGMENTS OF DNA, Roy J. Britten and David E. Kohne, p. 24; THE RED SEA HOT BRINES, Egon T. Degens and David A. Ross, p. 32; CHEMISTRY BY COMPUTER, Arnold C. Wahl, p. 54; PESTICIDES AND THE REPRODUCTION OF BIRDS, David B. Peakall, p. 72; HOW IS MUSCLE TURNED

M. Ya. Azbel', M. I. Kaganov and I. M. Lifshitz, p. 88; snow crystals, Charles and Nancy Knight, p. 100.

February: RECONNAISSANCE AND ARMS CONTROL, Ted Greenwood, p. 14; THE ORIGINS OF NERVE-CELL SPECIFICITY, Marcus Jacobson and R. Kevin Hunt, p. 26; FISHES WITH WARM BODIES, FRANCIS G. Carey, p. 36; THE CHINESE LANGUAGE, William S-Y. Wang, p. 50; THE MICROSTRUCTURE OF THE OCEAN, Michael Gregg, p. 64; THE CRASHWORTHINESS OF AUTOMOBILES, Patrick M. Miller, p. 78; METAL-VAPOR LASERS, William T. Silfvast, p. 88; ROTATION IN HIGH-ENERGY ASTROPHYSICS, Franco Pacini and Martin J. Rees, p. 98.

March: The prospects for a stationary world population, Tomas Figika, p. 15; the fine structure of the earth's interior, Bruce A. Boll, p. 24; the visualization of genes in action, O. L. Miller, Jr., p. 34; interstellar molecules, Baity E. Turner, p. 50; the asymmetry of the human brain, Doigen Kimura, p. 70; bicycle technology, S. S. Wilson, p. 81; the migrations of the shad, William C. Leggett, p. 92; the origins of number concepts, Charles J. Brainerd, p. 101.

April: THE TASK OF MEDICINE, William H. Glazier, p. 13; THE MOLECULE OF INFECTIOUS DRUG RESISTANCE, ROYSTON C. Clowes, p. 18; THE BRIGHTEST INFRARED SOURCES, G. Neugebauer and Eric E. Becklin, p. 28; THE CONTROL OF THE WATER CYCLE, José P. Peixoto and M. Ali Kettani, p. 46; ION IMPLANTATION, Frederick F. Morehead, Jr., and Billy L. Crowder, p. 64; THE LUNG OF THE NEWBORN INFANT, Mary Ellen Avery, Nai-San Wang and H. William Taeusch, Jr., p. 74; GIORDANO BRUNO, Lawrence S. Lerner and Edward A. Gosselin, p. 86; THE ENERGETICS OF THE BUMBLEBEE, Bernd Heinrich, p. 96.

May: CRYPTOGRAPHY AND COMPUTER PRIVACY, Horst Feistel, p. 15; THE ROLE OF THE HEARTBEAT IN THE RELATIONS BETWEEN MOTHER AND INFANT, Lee Salk, p. 24; TWO-DIMENSIONAL MATTER, J. G. Dash, p. 30; ROOTS, Emanuel Epstein, p. 48; THE EVOLUTION OF THE INDIAN OCEAN, D. P. McKenzie and J. G. Sclater, p. 62; CONFIRMATION, Wesley C. Salmon, p. 75; GALILEO'S DISCOVERY OF THE LAW OF FREE FALL, Stillman Drake, p. 84; THE INFRARED RECEPTORS OF SNAKES, R. Igor Gamow and John F. Harris, p. 94.

June: ENFORCING THE CLEAN AIR ACT OF 1970, Noel de Nevers, p. 14; THE ANCHOVY CRISIS, C. P. Idyll, p. 22; THE DYNAMICS OF THE ANDROMEDA NEBULA, Vera C. Rubin, p. 30; ULTRAFAST PHENOMENA IN LIQUIDS AND SOLIDS, R. R. Alfano and S. L. Shapiro, p. 42; ELECTRONIC NUMBERS, Alan Sobel, p. 64; LIFE IN TALL TREES, William C. Denison, p. 74; THE HUMAN LYMPHOCYTE AS AN EXPERIMENTAL ANIMAL, Richard A. Lettier and Frank J. Dixon, p. 82; AN ADVICE-TAKING CHESS COMPUTER, Albert L. Zobrist and Frederic R. Carlson, Jr., p. 92.

July: Public Policy on Fertility Control, Frederick S. Jaffe, p. 17; The Physics of Brasses, Arthur H. Benade, p. 24; Advanced composite Materials, H. R. Clauser, p. 36; The Immune System, Niels Kaj Jerne, p. 52; Meteorites and Cosmic Radiation, I. R. Cameron, p. 64; The Brideprice of the sebei, Walter Goldschmidt, p. 74; Plate Tectonics and Mineral Resources, Peter A. Rona, p. 86; Brain Mechanisms in Movement, Edward V. Evarts, p. 96.

August: Defense against bomber attack, Richard D. English and Dan I. Bolef, p. 11; the isolation of genes, Donald D. Brown, p. 20; EXPERIMENTS WITH NEUTRINO BEAMS, Barry C. Barish, p. 30; METAL-OXIDE-SEMICONDUCTOR TECHNOLOGY, William C. Hittinger, p. 48; The Evolution of the andes, David E. James, p. 60; Duet-singing birds, W. H. Thorpe, p. 70; the stirling engine, Graham Walker, p. 80; HEREDITARY FAT-METABOLISM DISEASES, ROSCOE O. Brady, p. 88.

September: LIFE AND DEATH AND MEDICINE, Kerr L. White, p. 22; GROWING UP, J. M. Tanner, p. 34; GETTING OLD, Alexander Leaf, p. 44; DYING, Robert S. Morison, p. 54; THE ILLS OF MAN, John H. Dingle, p. 76; SLRGICAL INTERVENTION, Charles G. Child III, p. 90; CHEMICAL INTERVENTION, Sherman M. Mellinkoff, p. 102; PSYCHIATRIC INTERVENTION, Leon Eisenberg, p. 116; THE HOSPITAL, John H. Knowles, p. 128; THE MEDICAL SCHOOL, Robert H. Eberl, p. 138; THE MEDICAL LONOUY, Martin S. Feldstein, p. 151; THE MEDICAL BUSINESS, James L. Goddard, p. 161; THE ORGANIZATION OF MEDICAL CARE, Ernest W. Saward, p. 169.

October: ELECTROMAGNETIC FLIGHT, Henry H. Kolm and Richard D. Thornton, p. 17; HERPES VIRUSES AND CANCER, Keen A. Rafferty, Jr.,

p. 26; the sling as a weapon, Manfred Korfmann, p. 34; protein shape and biological control, D. E. Koshland, Jr., p. 52; the solar corona, Jay M. Pasachoff, p. 68; high-efficiency photosynthesis, Olle Björkman and Joseph Berry, p. 80; auditory beats in the brain, Gerald Oster, p. 94; electron-positron collisions, Alan M. Litke and Richard Wilson, p. 104.

November: Multiple-Warhead Missiles, Herbert F. York, p. 18; COMMUNICATION BY OPTICAL FIBER, J. S. Cook, p. 28; PROTON INTERACTIONS AT HIGH ENERGIES, Ugo Amaldi, p. 36; THE COMPLEMENT SYSTEM, Manfred M. Mayer, p. 54; THE RECOGNITION OF FACES, Leon D. Harmon, p. 70; HILBERT'S 10TH PROBLEM, Martin Davis and Reuben Hersh, p. 84; THE FLYING LEAP OF THE FLEA, Miriam Rothschild et al., p. 92; THE EVOLUTION OF THE PACIFIC, Bruce C. Heezen and Ian D. MacGregor, p. 102.

December: FLYWHEELS, Richard F. Post and Stephen F. Post, p. 17; GENETIC DISSECTION OF BEHAVIOR, Seymour Benzer, p. 24; VIOLENT TIDES BETWEEN GALAXIES, Alar and Juri Toomre, p. 38; THE TROPICAL RAIN FOREST, Paul W. Richards, p. 58; LASER SPECTROSCOPY, M. S. Feld and V. S. Letokhov, p. 69; COPERNICUS AND TYCHO, Owen Gingerich, p. 86; THE SOARING FLIGHT OF VULTURES, C. J. Pennycuick, p. 102; SLIPS OF THE TONGUE, VICTORIA A. Fromkin, p. 110.

1974

January: ENERGY POLICY IN THE U.S., David J. Rose, p. 20; ELECTROCHEMICAL MACHINING, James P. Hoare and Mitchell A. LaBoda, p. 30; THE NERVOUS SYSTEM OF THE LEECH, John G. Nicholls and David Van Essen, p. 38; THE CELL CYCLE, Daniel Mazia, p. 54; THE AGE OF THE ELEMENTS, David N. Schramm, p. 69; THE PERCEPTION OF DISORIENTED FIGURES, Irvin Rock, p. 78; THE PHYSICS OF THE BOWED STRING, John C. Schelleng, p. 87; THE ASTROLABE, J. D. North, p. 96.

February: SOYBEANS, Folke Doving, p. 14; CHARGE-COUPLED DEVICES, Gilbert F. Amelio, p. 22; SLOW, INAPPARENT AND RECURRENT VIRUSES, John J. Holland, p. 32; THE NATURE OF COMETS, Fred L. Whipple, p. 48; THE COOPERATIVE ACTION OF MUSCLE PROTEINS, John M. Murray and Annemarie Weber, p. 58; THE BATAVIA ACCELERATOR, R. R. Wilson, p. 72; NUTRITION AND THE BRAIN, John D. Fernstrom and Richard J. Wurtman, p. 84; THE WIND BRACING OF BUILDINGS, Carl W. Condit, p. 92.

March: The Gasification of Coal, Haity Petty, p. 19; a dynamic model of Cell membranes, Roderick A. Capaldi, p. 26; the neural basis of visually guided behavior, Jörg-Peter Ewert, p. 34; the chemistry of the solar system, John S. Lewis, p. 50; inorganic polymers, Haity R. Allcock, p. 66; vortexes in aircraft wakes, Norman A. Chigier, p. 76; the cry of the human infant, Peter F. Oswald and Philip Peltzman, p. 84; ferdinand braun and the cathode ray tube, George Shiers, p. 92.

April: The Delivery of Medical Care in China, Victor W. Sidel and Ruth Sidel, p. 19; integrated optics, P. K. Tien, p. 28; the embryo as a transplant, Alan E. Beer and Rupert E. Billingham, p. 36; wood pulp, F. Keith Hall, p. 52; the center of the Galaxy, R. H. Sanders and G. T. Wrixon, p. 66; plate tectonics and the history of life in the oceans, James W. Valentine and Eldridge M. Moofes, p. 80; the perception of transparency, Fabio Metelli, p. 90; the biological control of dung, D. F. Waterhouse, p. 100.

May: NUCLEAR STRATEGY AND NUCLEAR WEAPONS, BAITY E. CARTER, p. 20; THE ARCHAEOLOGY OF WINCHESTER, Martin Biddle, p. 32; VISUAL PATHWAYS IN ALBINOS, R. W. Guillery, p. 44; THE TOP MILLIMETER OF THE OCEAN, FEITEN MacIntyre, p. 62; GLYCOPROTEINS, Nathan Sharon, p. 78; THE PARTICLES OF WEAR, DOUGLAS SCOIL, William W. Seifert and Vernon C. Westcoil, p. 88; COMPUTER GRAPHICS IN ARCHITECTURE, Donald P. Greenberg, p. 98; DEUTERIUM IN THE UNIVERSE, Jay M. Pasachoff and William A. Fowler, p. 108.

June: PSYCHIATRISTS AND THE ADVERSARY PROCESS, David L. Bazelon, p. 18; FUSION POWER BY LASER IMPLOSION, John L. Emmett, John Nuckolls and Lowell Wood, p. 24; POPULATION CYCLES IN RODENTS, Judith H. Myers and Charles J. Krebs, p. 38; NEUROTRANSMITTERS, Julius Axelrod, p. 58; THE STEADY STATE OF THE EARTH'S CRUST, ATMOSPHERE AND OCEANS, Raymond Siever, p. 72; ROTATING CHEMICAL REACTIONS, Arthur T.

SOCIETY, Roy A. Rappaport, p. 116; THE FLOW OF ENERGY IN AN INDUSTRIAL SOCIETY, Earl Cook, p. 134; THE CONVERSION OF ENERGY, Claude M. Summers, p. 148; THE ECONOMIC GEOGRAPHY OF ENERGY, Daniel B. Luten, p. 164; ENERGY AND INFORMATION, MYON Tribus and Edward C. McIrvine, p. 179; DECISION-MAKING IN THE PRODUCTION OF POWER, Milton Katz, p. 191.

October: The Physiology of Starvation, Vernon R. Young and Nevin S. Scrimshaw, p. 14; Cable Television, William T. Knox, p. 22; The Object in the World of the Infant, T. G. R. Bower, p. 30; The Lunar Rocks, Brian Mason, p. 48; Carbon 14 and the prehistory of Europe, Colin Renfrew, p. 63; How Living Cells Change Shape, Norman K. Wessells, p. 76; Mössbauer Spectroscopy, R. H. Herber, p. 86; The Measurement of the "Man-Day", Eugene S. Ferguson, p. 96.

November: The anatomy of inflation: 1953-1975, W. Halder Fisher, p. 15; new superconductors, T. H. Geballe, p. 22; prenatal diagnosis of genetic disease, Theodore Friedmann, p. 34; the san andreas fault, Don L. Anderson, p. 52; the new covenanters of qumran, Shemaryahu Talmon, p. 72; prostaglandins, John E. Pike, p. 84; the genetic improvements of southern pines, Bruce J. Zobel, p. 94; the desert pupfish, James H. Brown, p. 104.

December: ATTITUDES TOWARD RACIAL INTEGRATION, Andrew M. Greeley and Paul B. Sheatsley, p. 13; THE GUM NEBULA, Stephen P. Maran, p. 20; CRYPTOBIOSIS, John H. Crowe and Alan F. Cooper, Jr., p. 30; CATALYSIS, Vladimir Haensel and Robert L. Burwell, Jr., p. 46; MULTISTABILITY IN PERCEPTION, Fred Attneave, p. 62; HOW BIRDS BREATHE, Knut Schmidt-Nielsen, p. 72; THE ROTATION OF THE EARTH, D. E. Smylie and L. Mansinha, p. 80; THE TALKING DRUMS OF AFRICA, John Carrington, p. 90.

1972

January: Extending the Nuclear-Test Ban, Henry R. Meyers, p. 13; RNA-DIRECTED DNA SYNTHESIS, Howard M. Temin, p. 24; How Ideology SHAPES WOMEN'S LIVES, Jean Lipman-Blumen, p. 34; THE SCANNING ELECTRON MICROSCOPE, Thomas E. Everhart and Thomas L. Hayes, p. 54; GEOTHERMAL POWER, Joseph Barnea, p. 70; THE SPECTRUM OF THE AIRGLOW, M. F. Ingham, p. 78; WHY THE STOMACH DOES NOT DIGEST ITSELF, HOrace W. Davenport, p. 86; POPULATION GENETICS AND HUMAN ORIGINS, Robert B. Eckhardt, p. 94.

February: TECHNOLOGY ASSESSMENT AND MICROWAVE DIODES, Raymond Bowers and Jeffrey Frey, p. 13; Brain Changes in Response to experience, Mark R. Rosenzweig, Edward L. Bennett and Marian C. Diamond, p. 22; The STRUCTURE OF CELL MEMBRANES, C. Fred Fox, p. 30; THE SYNTHESIS OF SPEECH, James L. Flanagan, p. 48; THE PRESSURE OF LASER LIGHT, Arthur Ashkin, p. 62; Intercontinental Radio ASTRONOMY, K. I. Kellermann, p. 72; THE PHYSIOLOGY OF MEDITATION, ROBERT Keith Wallace and Herbert Benson, p. 84; CHECKS ON POPULATION GROWTH: 1750–1850, William L. Langer, p. 92.

March: FOOD ADDITIVES, G. O. Kermode, p. 15; NONVISUAL LIGHT RECEPTION, Michael Menaker, p. 22; GEOSYNCLINES, MOUNTAINS AND CONTINENT-BUILDING, Robert S. Dietz, p. 30; ELECTROSTATICS, A. D. MOOFE, p. 46; THE CAVE BEAR, BJÖTN KURTÉN, p. 60; DO INFANTS THINK?, JEFOME KABAN, p. 74; THE SOURCES OF MUSCULAR ENERGY, RODOLFO MARGARIA, p. 84; HOW DID KEPLER DISCOVER HIS FIRST TWO LAWS?, Curtis Wilson, p. 92.

April: POLITICAL FACTORS IN ECONOMIC ASSISTANCE, Gunnar Myrdal, p. 15; COLLECTIVE-EFFECT ACCELERATORS, Denis Keefe, p. 22; AN EARLIER AGRICULTURAL REVOLUTION, Wilhelm G. Solheim II, p. 34; TIDES AND THE EARTH-MOON SYSTEM, Peter Goldreich, p. 42; THE STRUCTURE AND HISTORY OF AN ANCIENT PROTEIN, Richard E. Dickerson, p. 58; LANGUAGE AND THE BRAIN, Norman Geschwind, p. 76; Superconductors for power Transmission, Donald P. Snowden, p. 84; Environmental Control in The Beehive, Roger A. Morse, p. 92.

May: THE CRATERING OF INDOCHINA, Arthur H. Westing and E. W. Pfeiffer, p. 20; HOW WE CONTROL THE CONTRACTION OF OUR MUSCLES, P. A. Merton, p. 30; BLACK HOLES, Roger Penrose, p. 38; PLATE TECTONICS, John F. Dewey, p. 56; TOTAL INTRAVENOUS FEEDING, Stanley J. Dudrick and Jonathan E. Rhoads, p. 73; THE PLANNING OF A MAYA CEREMONIAL

CENTER, Norman Hammond, p. 82; TREE RINGS AND CLIMATE, Harold C. Fritts, p. 92; THE GREAT AUTOMOBILE RACE OF 1895, Jacques Ickx, p. 102.

June: MISSILE SUBMARINES AND NATIONAL SECURITY, Herbert Scoville, Jr., p. 15; MARKERS OF BIOLOGICAL INDIVIDUALITY, Ralph A. Reisfeld and Barry D. Kahan, p. 28; ORGANIC MATTER IN METEORITES, James G. Lawleess, Clair E. Folsome and Keith A. Kvenvolden, p. 38; The EVOLUTION OF REEFS, Norman D. Newell, p. 54; TEMPERATURE CONTROL IN FLYING MOTHS, Bernd Heinrich and George A. Bartholomew, p. 70; NONSTANDARD ANALYSIS, Martin Davis and Reuben Hersh, p. 78; CONTOUR AND CONTRAST, Floyd Ratliff, p. 90; PSYCHOLOGICAL FACTORS IN STRESS AND DISEASE, Jay M. Weiss, p. 104.

July: Antisubmarine Warfare and National Security, Richard L. Garwin, p. 14; the X-ray sky, Herbert W. Schnopper and John P. Delvaille, p. 26; Lewis Carroll's Lost Book on Logic, W. W. Bartley III, p. 38; the Chemical Elements of Life, Earl Frieden, p. 52; the tokamak approach in Fusion Research, Bruno Coppi and Jan Rem, p. 65; Deprivation Dwarfism, Lytt I. Gardner, p. 76; experiments in Reading, Paul A. Kolers, p. 84; escape responses in Marine Invertebrates, Howard A. Feder, p. 92.

August: The Wankel Engine, David E. Cole, p. 14; "IMPRINTING" IN A NATURAL LABORATORY, Eckhard H. Hess, p. 24; The Nature of Aromatic Molecules, Ronald Breslow, p. 32; The Birth of Stars, Bart J. Bok, p. 48; Doctor-Patient Communication, Barbara M. Korsch and Vida Francis Negrete, p. 66; Origins of the Binary Code, F. G. Heath, p. 76; The Neurophysiology of Binocular Vision, John D. Pettigrew, p. 84; Cyclic Amp, Ira Pastan, p. 97.

September: Communication, John R. Pierce, p. 30; Cellular Communication, Gunther S. Stent, p. 42; Animal Communication, Edward O. Wilson, p. 52; Verbal Communication, Roman Jakobson, p. 72; The Visual Image, E. H. Gombrich, p. 82; Communication Channels, Henri Busignies, p. 98; Communication networks, Hiroshi Inose, p. 116; Communication the Community, Ernest R. Kretzmer, p. 130; Communication and the Community, Peter C. Goldmark, p. 142; Communication and Social Environment, George Gerdner, p. 152; Communication and Freedom of Expression, Thomas I. Emerson, p. 163.

October: A NEGATIVE-INCOME-TAX EXPERIMENT, David N. Kershaw, p. 19; CLEAN POWER FROM DIRTY FUELS, Arthur M. Squires, p. 26; LIFE IN MYCENAEAN GREECE, John Chadwick, p. 36; ACOUSTIC SURFACE WAVES, GORDON S. Kino and John Shaw, p. 50; LACTOSE AND LACTASE, Norman Kretchmer, p. 70; THE CARBON CHEMISTRY OF THE MOON, Geoffrey Eglinton, James R. Maxwell and Colin T. Pillinger, p. 80; TEACHING LANGUAGE TO AN APE, Ann James Premack and David Premack, p. 92; THE TEXTURE OF THE NUCLEAR SURFACE, Chris D. Zafiratos, p. 100.

November: The Great Test-ban Debate, Herbert F. York, p. 15; the Hormones of the hypothalamus, Roger Guillemin and Roger Burgus, p. 24; microcircuits by electron beam, A. N. Broers and M. Hatzakis, p. 34; continental drift and the fossil record, A. Hallam, p. 56; the social behavior of army ants, Howard R. Topoff, p. 70; pictorial perception and culture, Jan B. Deregowski, p. 82; the structural analysis of Gothic Cathedrals, Robert Mark, p. 90; exotic atoms, Clyde E. Wiegand, p. 102.

December: HIGH TECHNOLOGY IN CHINA, Raphael Tsu, p. 13; LEARNING IN NEWBORN KITTENS, Jay S. Rosenblatt, p. 18; WHEN THE MEDITERRANEAN DRIED UP, Kenneth J. HSü, p. 26; YARN, Stanley Backer, p. 46; THE TENSILE STRENGTH OF LIQUIDS, Robert E. Apfel, p. 58; THE SUPERIOR COLLICULUS OF THE BRAIN, Barbara Gordon, p. 72; PREMATURITY AND UNIQUENESS IN SCIENTIFIC DISCOVERY, Gunther S. Stent, p. 84; THE MESOZOA, Elliot A. Lapan and Harold J. Morowitz, p. 94.

1973

January: The hydrogen economy, Derek P. Gregory, p. 13; how the immune response to a virus can cause disease, Abner Louis Notkins and Hilary Koprowski, p. 22; the omnivorous chimpanzee, Geza Teleki, p. 32; mars from mariner 9, Bruce C. Multay, p. 48; the control of sensitivy in the retina, Frank S. Werblin, p. 70; judaism at the time of christ, Michael E. Stone, p. 80; conduction electrons in metals,

SWITCH OF MUSCLE CONTRACTION, Carolyn Cohen, p. 36; HIGH-GRADIENT MAGNETIC SEPARATION, Henry Kolm, John Oberteuffer and David Kelland, p. 46; THE CANCER PROBLEM, John Caitns, p. 64; UNUSUAL MECHANISMS FOR THE GENERATION OF LIFT IN FLYING ANIMALS, TORKED WEIS-Fogh, p. 80; THE SUBDUCTION OF THE LITHOSPHERE, M. Nafi Toksöz, p. 88; THE SYNTHESIS OF DIAMOND AT LOW PRESSURE, B. V. Derjaguin and D. B. Fedoseev, p. 102; THE ROLE OF PUPIL SIZE IN COMMUNICATION, Eckhard H. Hess, p. 110.

December: The Strip-Mining of Western Coal, Genevieve Atwood, p. 23; colicins and the energetics of cell membranes, Salvador E. Luria, p. 30; x-rays from supernova remnants, Philip A. Charles and J. Leonard Culhane, p. 38; the arrow of time, David Layzet, p. 56; what happens to the human lens in Cataract, Ruth van Heyningen, p. 70; sister-exchange Marriage, Wendy James, p. 84; the Microstructure of Polymeric Materials, D. R. Uhlmann and A. G. Kolbeck, p. 96; the Sand Wasps of Australia, Howard E. Evans and Robert W. Maithews, p. 108.

1976

January: The necessity of fission power, H. A. Bethe, p. 21; The volcanoes of Mars, Michael H. Cait, p. 32; The Search for New families of elementary particles, David B. Cline, Alfred K. Mann and Carlo Rubbia, p. 44; A DNA OPERATOR-REPRESSOR SYSTEM, TOM Maniatis and Mark Plashne, p. 64; STOMATOPODS, Roy L. Caldwell and Hugh Dingle, p. 80; Paleoneurology and the evolution of Mind, Harty J. Jerison, p. 90; Mirages, Alistair B. Fraser and William H. Mach, p. 102; The prevention of SMALLPOX BEFORE JENNER, William L. Langer, p. 112.

February: THE ETHICS OF EXPERIMENTATION WITH HUMAN SUBJECTS, BETTAL Barber, p. 25; THE RECEPTORS OF STEROID HORMONES, BETT W. O'Malley and William T. Schrader, p. 32; IS GRAVITY GETTING WEAKER?, Thomas C. Van Flandern, p. 44; FORAGE CROPS, Harlow J. Hodgson, p. 60; ROBOT SYSTEMS, James S. Albus and John M. Evans, Jr., p. 76; THE FINAL PALEOLITHIC SETTLEMENTS OF THE EUROPEAN PLAIN, ROMUAID SCHILD, p. 88; CARBENES, Maitland Jones, Jr., p. 101; THE BIOLOGICAL CLOCK OF INSECTS, D. S. Saunders, p. 114.

March: THE METABOLISM OF ALCOHOL, Charles S. Lieber, p. 25; POLYCYCLIC AROMATIC COMPOUNDS IN NATURE, Max Blumer, p. 34; THE METEOROLOGY OF JUPITER, Andrew P. Ingersoll, p. 46; WILL THE UNIVERSE EXPAND FOREVER?, J. Richard Gott III, James E. Gunn, David N. Schramm and Beatrice M. Tinsley, p. 62; THE RESOURCES OF BINOCULAR PERCEPTION, John Ross, p. 80; THE SMALL ELECTRONIC CALCULATOR, Eugene W. McWhorter, p. 88; SOCIAL SPIDERS, J. Wesley Burgess, p. 100; FLUORESCENCE-ACTIVATED CELL SORTING, Leonard A. Herzenberg, Richard G. Sweet and Leonore A. Herzenberg, p. 108.

April: THE SCIENCE-TEXTBOOK CONTROVERSIES, DOTOTHY Nelkin, p. 33; THE SENSING OF CHEMICALS BY BACTERIA, Julius Adler, p. 40; SUBJECTIVE CONTOURS, Gaetano Kanizsa, p. 48; CATASTROPHE THEORY, E. C. Zeeman, p. 65; OPALS, P. J. Daitagh, A. J. Gaskin and J. V. Sanders, p. 84; THE ANALYSIS OF MATERIALS BY X-RAY ABSORPTION, Edward A. Stern, p. 96; GALILEO AND THE FIRST MECHANICAL COMPUTING DEVICE, Stillman Drake, p. 104; THE NILE CROCODILE, Anthony C. Pooley and Carl Gans, p. 114.

May: OIL AND GAS FROM COAL, Neal P. Cochran, p. 24; CELL-SURFACE IMMUNOLOGY, Martin C. Raff, p. 30; MECHANICAL ALLOYING, J. S. Benjamin, p. 40; THE VASCULARIZATION OF TUMORS, Judah Folkman, p. 58; SYNCHRONOUS FIREFLIES, John and Elisabeth Buck, p. 74; THE MASS OF THE PHOTON, Alfred Scharff Goldhaber and Michael Martin Nieto, p. 86; STEPHEN HALES, I. Bernard Cohen, p. 98; THE GALILEAN SATELLITES OF JUPITER, Dale P. Cruikshank and David Morrison, p. 108.

June: THE CHOICE OF VOTING SYSTEMS, Richard G. Niemi and William H. Riker, p. 21; AN ELECTRON-HOLE LIQUID, GORDON A. Thomas, p. 28; THE PURPLE MEMBRANE OF SALT-LOVING BACTERIA, Walther Stoeckenius, p. 38; NAVIGATION BETWEEN THE PLANETS, William G. Melbourne, p. 58; 17200 YEARS OF GREEN PREHISTORY, Thomas W. Jacobsen, p. 76; CENTERMOT IRRIGATION, William E. Splinter, p. 90; HISTORICAL SUPERNOVAS, F. Richard Stephenson and David H. Clark, p. 100; FUTURE PERFORMANCE INFORTRACING, Henry W. Ryder, Harry Jay Cart and Paul Herget, p. 109.

July: World resources and the world middle class, Nathan Keyfitz, p. 28; a natural fission reactor, George A. Cowan, p. 36; interactions between hormones and nerve tissue, Bruce S. McEwen, p. 48; the direct reduction of Iron ore, Jack Robert Miller, p. 68; the Geometry of Soap films and Soap Bubbles, Frederick J. Almgren, Jr., and Jean E. Taylor, p. 82; appendicularians, Alice Alldredge, p. 94; polarized-light navigation by insects, Rüdiger Wehner, p. 106; canals in america, John S. McNown, p. 116.

August: Medical Malpractice, David S. Rubsamen, p. 18; the sleep factor, John R. Pappenheimer, p. 24; stone-age man on the Nile, Philip E. L. Smith, p. 30; hot spots on the earth's surface, Kevin C. Burke and J. Tuzo Wilson, p. 46; rabbit hemoglobin from frog eggs, Charles Lane, p. 60; the photographic lens, William H. Price, p. 72; the social behavior of burying beetles, Lorus J. Milne and Margery Milne, p. 84; the curvature of space in a finite universe, J. J. Callahan, p. 90.

September: FOOD AND AGRICULTURE, Sterling Wortman, p. 30; THE DIMENSIONS OF HUMAN HUNGER, Jean Mayer, p. 40; THE REQUIREMENTS OF HUMAN NUTRITION, Nevin S. Scrimshaw and Vernon R. Young, p. 50; THE CYCLES OF PLANT AND ANIMAL NUTRITION, Jules Janick, Carl H. Noller and Charles L. Rhykerd, p. 74; THE PLANTS AND ANIMALS THAT NOURISH MAN, Jack R. Harlan, p. 88; AGRICULTURAL SYSTEMS, ROBERT S. LOOMIS, p. 98; THE AGRICULTURE OF THE U.S., Earl O. Heady, p. 106; THE AGRICULTURE OF MEXICO, Edwin J. Wellhausen, p. 128; THE AGRICULTURE OF INDIA, JOHN W. Mellor, p. 154; THE RESOURCES AVAILABLE FOR AGRICULTURE, ROGER Revelle, p. 164; THE AMPLIFICATION OF AGRICULTURAL PRODUCTION, Peter R. Jennings, p. 180; THE DEVELOPMENT OF AGRICULTURE IN DEVELOPING COUNTRIES, W. David Hopper, p. 196.

October: The eradication of smallpox, Donald A. Henderson, p. 25; The photovoltaic generation of electricity, Bruce Chalmers, p. 34; Neutron-scattering studies of the ribosome, Donald M. Engelman and Peter B. Moore, p. 44; Cosmic gamma-ray bursts, Ian B. Strong and Ray W. Klebesadel, p. 66; White-light holograms, Emmeit N. Leith, p. 80; the social order of Japanese Macaques, G. Gray Eaton, p. 96; Dust storms, Sherwood B. Idso, p. 108; a deserted medieval village in england, Maurice Beresford, p. 116.

November: LIMITED NUCLEAR WAR, Sidney D. Drell and Frank von Hippel, p. 27; REPETITIVE PROCESSES IN CHILD DEVELOPMENT, T. G. R. BOWER, p. 38; THE CONFINEMENT OF QUARKS, YOICHIRO NAMBU, p. 48; CONVECTION CURRENTS IN THE EARTH'S MANTLE, D. P. McKenzie and Frank Richter, p. 72; VISUAL CELLS IN THE PONS OF THE BRAIN, Mitchell Glickstein and Alan R. Gibson, p. 90; THE FORMING OF SHEET METAL, S. S. Hecker and A. K. Ghosh, p. 100; URBAN TREES, Thomas S. Elias and Howard S. Irwin, p. 110; an Archaic Indian Burial Mound in Labrador, James A. Tuck and Robert J. McGhee, p. 122.

December: The pluralistic economy of the U.S., Eli Ginzberg, p. 25; The reprocessing of nuclear fuels, William P. Bebbington, p. 30; Negative aftereffects in visual perception, Olga Eizner Favreau and Michael C. Corballis, p. 42; Superfluid Helium 3, N. David Mermin and David M. Lee, p. 56; The control of Walking, Keip Pearson, p. 72; Supernovas in other galaxies, Robert P. Kirshner, p. 88; How viruses insert their dna into the dna of the host cell, Alian M. Campbell, p. 102; Fission-track dating, I. D. Macdougall, p. 114.

1977

January: LEGAL ABORTION, Christopher Tietze and Sarah Lewit, p. 21; AGRICULTURE WITHOUT TILLAGE, Glover B. Triplett, Jr., and David M. Van Doren, Jr., p. 28; THE QUANTUM MECHANICS OF BLACK HOLES, S. W. Hawking, p. 34; THE ANTIBODY COMBINING SITE, J. Donald Capra and Allen B. Edmundson, p. 50; THE PERCEPTION OF MOVING TARGETS, Robert Sekuler and Eugene Levinson, p. 60; exoelectrons, Ernest Rabinowicz, p. 74; CRATERING IN THE SOLAR SYSTEM, William K. Hartmann, p. 84; THE SAMARITANS, Shemaryahu Talmon, p. 100.

February: Cruise Missiles, Kosla Tsipis, p. 20; Phobos and Deimos, Joseph Veverka, p. 30; a frontier post in roman Britain, Robin Birley, p. 38; Global satelite Communications, Burton I. Edelson, p. 58; the origin of atherosclerosis, Earl P. Bendiil, p. 74; Laser separation of isotopes, Richard N. Zare, p. 36; social and nonsocial speech, Robert M. Krauss and Sam Glucksberg, p. 100; the response to acetylcholine,

Winfree, p. 82; ICE-AGE HUNTERS OF THE UKRAINE, Richard G. Klein, p. 96; WINES, GRAPE VINES AND CLIMATE, Philip Wagner, p. 106.

July: FIRE AND FIRE PROTECTION, Howard W. Emmons, p. 21; THE SEX-ATTRACTANT RECEPTOR OF MOTHS, Dietrich Schneider, p. 28; HYBRID CELLS AND HUMAN GENES, Frank H. Ruddle and Raju S. Kucherlapati, p. 36; UNIFIED THEORIES OF ELEMENTARY-PARTICLE INTERACTION, Steven Weinberg, p. 50; THE GLORY, Howard C. Bryant and Nelson Jarmie, p. 60; A FAMILY OF PROTEIN-CUTTING PROTEINS, Robert M. Stroud, p. 74; SOURCES OF AMBIGUITY IN THE PRINTS OF MAURITS C. ESCHER, Marianne L. Teuber, p. 90; THE CASTS OF FOSSIL HOMINID BRAINS, Ralph L. Holloway, p. 106.

August: The disposal of waste in the ocean, Willard Bascom, p. 16; the cosmic background radiation, Adrian Webster, p. 26; the neurobiology of cricket song, David Bentley and Ronald R. Hoy, p. 34; the origins of alienation, Urie Bronfenbrenner, p. 53; superhard materials, Francis P. Bundy, p. 62; triticale, Joseph H. Hulse and David Spurgeon, p. 72; how actinomycin binds to dna, Henry M. Sobell, p. 82; the rise of coal technology, John R. Harris, p. 92.

September: The Human Populations, Ronald Freedman and Bernard Berelson, p. 30; the history of the Human Population, Ansley J. Coale, p. 40; the physiology of Human Reproduction, Sheldon J. Segal, p. 52; the Genetics of Human Populations, L. L. Cavalli-Sforza, p. 80; the migrations of Human Populations, Kingsley Davis, p. 92; the Populations of the Developed Countries, Charles F. Westoff, p. 108; the family in Developed Countries, Norman B. Ryder, p. 122; the Changing Status of Women in Developed Countries, p. 136; the Populations of the Underdeveloped Countries, Paul Demeny, p. 148; food and Population, Roger Revelle, p. 160; the Transfer of Technology to Underdeveloped Countries, Gunnar Myrdal, p. 172.

October: THE INTERNATIONAL CONTROL OF DISARMAMENT, Alva Myrdal, p. 21; THE STRUCTURE OF EMISSION NEBULAS, Joseph S. Miller, p. 34; HOW CILIA MOVE, Peter Satir, p. 44; NITROGEN FIXATION, David R. Safrany, p. 64; THE DIMENSIONS OF STAIRS, James Marston Fitch, John Templer and Paul Corcoran, p. 82; MIMICRY IN PARASITIC BIRDS, Jürgen Nicolai, p. 92; THE COORDINATION OF EYE-HEAD MOVEMENTS, Emilio Bizzi, p. 100; THE EXCAVATION OF A DROWNED GREEK TEMPLE, Michael H. Jameson, p. 110.

November: The ethics of giving placebos, Sissela Bok, p. 17; Gravitation theory, Clifford M. Will, p. 24; computer control of electric-power systems, Hans Glavitsch, p. 34; the development of the immune system, Max D. Cooper and Alexander R. Lawton III, p. 58; musical dynamics, Blake R. Patterson, p. 78; the physiology of the giraffe, James V. Warten, p. 96; contrast and spatial frequency, Fergus W. Campbell and Lamberto Maffei, p. 106; time spent in housework, Joann Vanek, p. 116.

December: EYEWITNESS TESTIMONY, Robert Buckhout, p. 23; THE SEARCH FOR BLACK HOLES, Kip S. Thorne, p. 32; HYDRA AS A MODEL FOR THE DEVELOPMENT OF BIOLOGICAL FORM, Alfred Gierer, p. 44; THE ABSORPTION OF LIGHT IN PHOTOSYNTHESIS, GOVINDIGE and Rajni GOVINDIGE, p. 68; THE SOLIDIFICATION OF CASTINGS, MERTON C. Flemings, p. 88; THE MYSTERY OF PIGEON HOMING, William T. Keeton, p. 96; THE DETECTION OF NEUTRAL WEAK CURRENTS, David B. Cline, Alfred K. Mann and Carlo Rubbia, p. 108; COUNTERFEITING IN ROMAN BRITAIN, GEORGE C. BOON, p. 120.

1975

January: THE ANALYSIS OF ECONOMIC INDICATORS, Geoffrey H. Moore, p. 17; THE NATURE OF ASTEROIDS, Clark R. Chapman, p. 24; THE FUEL CONSUMPTION OF AUTOMOBILES, John R. Pierce, p. 34; THE CORTEX OF THE CEREBELLUM, Rodolfo R. Llinås, p. 56; HIGH-ENERGY REACTIONS OF CARBON, Richard M. Lemmon and Wallace R. Erwin, p. 72; A MECHANISM OF DISEASE RESISTANCE IN PLANTS, Gary A. Strobel, p. 80; MOTHS, MELANISM AND CLEAN AIR, J. A. Bishop and Laurence M. Cook, p. 90; THE COPROLITES OF MAN, Vaughn M. Bryant, Jr., and Glenna Williams-Dean, p. 100.

February: THE FOREIGN MEDICAL GRADUATE, Stephen S. Mick, p. 14; COMPUTER-MANAGED PARTS MANUFACTURE, Nathan H. Cook, p. 22; THE MOST PRIMITIVE OBJECTS IN THE SOLAR SYSTEM, Lawrence Grossman, p. 30;

CHROMOSOMAL PROTEINS AND GENE REGULATION, Gary S. Stein, Janet Swinehart Stein and Lewis J. Kleinsmith, p. 46; Dual-resonance models of elementary particles, John H. Schwaftz, p. 61; Biological clocks of the tidal zone, John D. Palmer, p. 70; a Carthaginian Fortress in Sardinia, Sabatino Moscati, p. 80; alfred Wegener and the hypothesis of continental drift, A. Hallam, p. 88.

March: AN EXPERIMENT IN WORK SATISFACTION, Lars E. Björk, p. 17; X-RAY-EMITTING DOUBLE STARS, Herbert Gursky and Edward P. J. van den Heuvel, p. 24; Interactive Human Communication, Alphonse Chapanis, p. 36; The Earth's Mantle, Peter J. Wyllie, p. 50; Visual Pigments and Color Blindness, W. A. H. Rushton, p. 64; The Role of Wax in Oceanic Food Chains, Andrew A. Benson and Richard F. Lee, p. 76; Themost Poisonous Mushrooms, Walter Litten, p. 90; Galileo's Discovery of the Parabolic Trajectory, Stillman Drake and James MacLachlan, p. 102.

April: THE PROLIFERATION OF NUCLEAR WEAPONS, William Epstein, p. 18; EXPERIMENTS IN THE VISUAL PERCEPTION OF TEXTURE, Bela Julesz, p. 34; CYANATE AND SICKLE-CELL DISEASE, Anthony Cerami and Charles M. Peterson, p. 44; DINOSAUR RENAISSANCE, Robert T. Bakker, p. 58; THE WALLS OF GROWING PLANT CELLS, Peter Albersheim, p. 80; GIANT CLAMS, C. M. Yonge, p. 96; THE ROTATION OF THE SUN, Robert Howard, p. 106; THE DEFORMATION OF METALS AT HIGH TEMPERATURES, Hugh J. McQueen and W. F. McGregor Tegart, p. 116.

May: EARTHQUAKE PREDICTION, Frank Press, p. 14; THE MOLECULAR BIOLOGY OF POLIOVIRUS, Deborah H. Spector and David Baltimore, p. 24; MICROCOMPUTERS, AND G. Vacroux, p. 32; RANDOMNESS AND MATHEMATICAL PROOF, Gregory J. Chaitin, p. 47; THE SOCIAL SYSTEM OF LIONS, Brian C. R. Bertram, p. 54; RURAL MARKET NETWORKS, Stuart Plattner, p. 66; THE SEARCH FOR EXTRATERRESTRIAL INTELLIGENCE, Carl Sagan and Frank Drake, p. 80; FOREST SUCCESSION, Henry S. Hoffi, p. 90.

June: AGRICULTURE IN CHINA, Sterling Wortman, p. 13; HOW THE LIVER METABOLIZES FOREIGN SUBSTANCES, Attallah Kappas and Alvito P. Alvares, p. 22; SLAVERY IN ANTS, Edward O. Wilson, p. 32; ELECTRON-POSITRON ANNIHILATION AND THE NEW PARTICLES, Sidney D. Drell, p. 50; PULSATING STARS, John R. Percy, p. 66; VISUAL MOTION PERCEPTION, Gunnar Johansson, p. 76; PELAGICTAR, James N. Butler, p. 90; THE ROLE OF MUSIC IN GALILEO'S EXPERIMENTS, Stillman Drake, p. 98.

July: The accuracy of strategic missiles, Kosta Tsipis, p. 14; the manipulation of genes, Stanley N. Cohen, p. 24; positrons as a probe of the solid state, Werner Brandt, p. 34; the journal bearing, John C. Bierlein, p. 50; the effects of light on the human body, Richard J. Wurtman, p. 68; Thunder, Arthur A. Few, p. 80; the mechanical design of trees, Thomas A. McMahon, p. 92; why mosquito repellents repel. R. H. Wright, p. 104.

August: International comparisons of medical care, Kert L. White, p. 17; Giant radio galaxies, Richard G. Strom, George K. Miley and Jan Oort, p. 26; How bacteria swim, Howard C. Berg, p. 36; The causes of biological diversity, Bryan Clarke, p. 50; the perception of surface color, Jacob Beck, p. 62; the floor of the mid-atlantic rift, J. R. Heirtzler and W. B. Bryan, p. 78; a pre-columbian urban center on the mississippi, Melvin L. Fowler, p. 92; the stellar-orientation system of a migratory bird, Stephen T. Emlen, p. 102.

September: The Solar System, Carl Sagan, p. 22; The Origin and Evolution of the Solar System, A. G. W. Cameron, p. 32; The Sun, E. N. Parker, p. 42; Mercury, Bruce C. Murray, p. 58; Venus, Andrew and Louise Young, p. 70; The Earth, Raymond Siever, p. 82; The Moon, John A. Wood, p. 92; Mars, James B. Pollack, p. 106; Jupiter, John H. Wolfe, p. 118; The Outer Planets, Donald M. Hunten, p. 130; The Smaller Bodies of the Solar System, William K. Hartmann, p. 142; Interplanetary particles and fields, James A. Van Allen, p. 160.

October: NATURAL-URANIUM HEAVY-WATER REACTORS, Hugh C. McIntyre, p. 17; THE FINAL STEPS IN SECRETION, Birgit Satir, p. 28; QUARKS WITH COLOR AND FLAVOR, Sheldon Lee Glashow, p. 38; IMAGE RECONSTRUCTION FROM PROJECTIONS, Richard Gordon, p. 56; THE RISE OF A MAYA MERCHANT CLASS, Jeremy A. Sablolf and William L. Rathje, p. 72; ACTIVE ANIMALS OF THE DEEP-SEA FLOOR, John D. Isaacs and Richard A. Schwartzlose, p. 84; Musical Illusions, Diana Deutsch, p. 92; THE DEBATE OVER THE HYDROGEN BOMB, Herbert F. York, p. 106.

November: NUCLEAR-FREE ZONES, William Epstein, p. 25; THE PROTLIN

Listing of Tables of Contents

June: ATTITUDES TOWARD RACIAL INTEGRATION, D. Garth Taylor, Paul B. Sheatsley and Andrew M. Greeley, p. 42; THE EARLIEST PRECURSOR OF WRITING, Denise Schmandt-Besserat, p. 50; EXOTIC LIGHT NUCLEI, Joseph Cerny and Arthur M. Poskanzer, p. 60; COSMIC MASERS, Dale F.

Dickinson, p. 90; the shaping of tissues in embryos, Richard Gordon and Antone G. Jacobson, p. 106; complexity theory, Nicholas Pippenger, p. 114; the preservation of stone, K. Lal Gauri, p. 126; the feeding behavior of mosquitoes, Jack Colvard Jones, p. 138.

Henry A. Lester, p. 106.

March: Superphénix: A full-scale Breeder Reactor, Georges A. Vendryes, p. 26; waves in the solar wind, J. T. Gosling and A. J. Hundhausen, p. 36; opiate receptors and internal opiates, Solomon H. Snyder, p. 44; biological nitrogen fixation, Winston J. Brill, p. 68; the acoustics of the singing voice, Johan Sundberg, p. 82; the oldest rocks and the growth of continents, Stephen Moorbath, p. 92; flashlight fishes, John E. McCosker, p. 106; the earliest maya, Norman Hammond, p. 116.

April: THE IMPORTATION OF LIQUEFIED NATURAL GAS, Elisabeth Drake and Robert C. Reid, p. 22; THE COLLISION BETWEEN INDIA AND EURASIA, Peter Molnar and Paul Tapponnier, p. 30; THE STATUS OF INTERFERON, Derek C. Burke, p. 42; ALGORITHMS, Donald E. Knuth, p. 63; BIOCRYSTALS, Shinya Inoué and Kayo Okazaki, p. 82; THE COMPANIONS OF SUNLIKE STARS, Helmut A. Abt, p. 96; THE SPREAD OF THE BANTU LANGUAGE, D. W. Phillipson, p. 106; THE THEORY OF THE RAINBOW, H. Moysés Nussenzveig, p. 116.

May: UNDERGROUND RESERVOIRS TO CONTROL THE WATER CYCLE, ROBERT P. Ambroggi, p. 21; RAMAPITHECUS, Elwyn L. Simons, p. 28; AMORPHOUS-SEMICONDUCTOR DEVICES, David Adler, p. 36; CANCER IMMUNOLOGY, Lloyd J. Old, p. 62; THE CASE OF THE MISSING SUNSPOTS, John A. Eddy, p. 80; EXPLORING THE HERBARIUM, Siri von Reis Altschul, p. 96; RAT SOCIETIES, Richard Lore and Kevin Flannelly, p. 106; STEIN'S PARADOX IN STATISTICS, Bradley Efron and Carl Morris, p. 119.

June: THE DISPOSAL OF RADIOACTIVE WASTES FROM FISSION REACTORS, Bernard L. Cohen, p. 21; THE USES OF SYNCHROTRON RADIATION, Ednor M. Rowe and John H. Weaver, p. 32; MICROBIAL LIFE IN THE DEEP SEA, Holger W. Jannasch and Carl O. Wirsen, p. 42; BOK GLOBULES, Robert L. Dickman, p. 66; SPATIAL MEMORY, David S. Olton, p. 82; THE LESSON OF RETROLENTAL FIBROPLASIA, William A. Silverman, p. 100; LECTINS, Nathan Sharon, p. 108; POETIC RESPONSES TO THE COPERNICAN REVOLUTION, Margaret M. Byard, p. 120.

July: THE RECOMBINANT-DNA DEBATE, Clifford Grobstein, p. 22; THE ATMOSPHERE OF MARS, CONWAY B. Leovy, p. 34; VIRAL HEPATITIS, Joseph L. Melnick, Gordon R. Dreesman and E. Blain Hollinger, p. 44; BIOLOGICAL REGENERATION AND PATTERN FORMATION, Peter J. Bryant, Susan V. Bryant and Vernon French, p. 66; THE SOLIDIFICATION OF CEMENT, D. D. Double and A. Hellawell, p. 82; ANIONS OF THE ALKALI METALS, James L. Dye, p. 92; THE COMPOUND EYE OF INSECTS, p. G. Adrian Horridge, p. 108; GAUSS, Ian Stewart, p. 122.

August: The Salt Negotiations, Herbert Scoville, Jr., p. 24; BL LACERTAE OBJECTS, Michael J. Disney and Philippe Véron, p. 32; LIGHT-WAVE COMMUNICATIONS, W. S. Boyle, p. 40; THE FLOW OF HEAT FROM THE EARTH'S INTERIOR, Henry N. Pollack and David S. Chapman, p. 60; KANGAROOS, T. J. Dawson, p. 78; THE GAS VACUOLES OF BLUE-GREEN ALGAE, A. E. Walsby, p. 90; THE HISTORY OF THE AIRFLOW CAR, HOWARD S. Irwin, p. 98; "SECOND MESSENGERS" IN THE BRAIN, James A. Nathanson and Paul Greengard, p. 108.

September: MICROELECTRONICS, Robert N. Noyce, p. 62; MICROELECTRONIC CIRCUIT ELEMENTS, James D. Meindl, p. 70; THE LARGE-SCALE INTEGRATION OF MICROELECTRONIC CIRCUITS, William C. Holton, p. 82; THE FABRICATION OF MICROELECTRONIC CIRCUITS, William G. Oldham, p. 110; MICROELECTRONIC MEMORIES, David A. Hodges, p. 130; MICROPROCESSORS, HOO-MIN D. TOONG, p. 146; THE ROLE OF MICROELECTRONICS IN DATA PROCESSING, Lewis M. Terman, p. 162; THE ROLE OF MICROELECTRONICS IN INSTRUMENTATION AND CONTROL, BERNARD M. Oliver, p. 180; THE ROLE OF MICROELECTRONICS IN COMMUNICATION, John S. Mayo, p. 192; MICROELECTRONICS AND COMPUTER SCIENCE, IVAN E. Sutherland and Carver A. Mead, p. 210; MICROELECTRONICS AND THE PERSONAL COMPUTER, Alan C. Kay, p. 230.

October: PEER REVIEW AND THE SUPPORT OF SCIENCE, Stephen Cole, Leonard C. Robin and Jonathan R. Cole, p. 34; X-RAY STARS IN GLOBULAR CLUSTERS, George W. Clark, p. 42; FUNDAMENTAL PARTICLES WITH CHARM, Roy F. Schwitters, p. 56; SIDE-LOOKING AIRBORNE RADAR, HOmer Jensen, L. C. Graham, Leonard J. Porcello and Emmett N. Leith, p. 84; THE STRUCTURE AND FUNCTION OF HISTOCOMPATIBILITY ANTIGENS, Bruce A. Cunningham, p. 96; THE SOLUTION OF THE FOUR-COLOR-MAP PROBLEM, Kenneth Appel and Wolfgang Haken, p. 108; HOW THE IRON AGE BEGAN, Robert Maddin, James D. Muhly and Tamara S. Wheeler, p. 122;

HALLUCINATIONS, Ronald K. Siegel, p. 132.

November: The Job Problem, Eli Ginzberg, p. 43; the Search for Life on Mars, Norman H. Horowitz, p. 52; drip irrigation, Kobe Shoji, p. 62; the clustering of Galaxies, Edward J. Groth, P. James E. Peebles, Michael Seldner and Raymond M. Soneira, p. 76; cats and commerce, Neil B. Todd, p. 100; the functions of paleolithic flint tools, Lawrence H. Keeley, p. 108; the program of fertilization, David Epel, p. 128; an early energy crisis and its consequences, John U. Nef, p. 140.

December: PRODUCT TECHNOLOGY AND THE CONSUMER, G. Franklin Montgomery, p. 47; THE NUCLEOTIDE SEQUENCE OF A VIRAL DNA, John C. Fiddes, p. 54; THE MOTION OF THE GROUND IN EARTHQUAKES, David M. Boore, p. 68; THE EPIDEMIOLOGY OF INFLUENZA, Martin M. Kaplan and Robert G. Webster, p. 88; THE RETINEX THEORY OF COLOR VISION, Edwin H. Land, p. 108; DISCLINATIONS, William F. Harris, p. 130; Weaverants, Berthold K. Hölldobler and Edward O. Wilson, p. 146; A CELTIC FARMSTEAD IN SOUTHERN BRITAIN, Geoffrey Wainwright, p. 156.

1978

January: THE CARBON DIOXIDE QUESTION, GEORGE M. WOOdwell, p. 34; THE SURGICAL REPLACEMENT OF THE HUMAN KNEE JOINT, David A. SONSTEGARD, LATTY S. Matthews and Herbert Kaufer, p. 44; THE THREE-DIMENSIONAL STRUCTURE OF TRANSFER RNA, Alexander Rich and Sung Hou Kim, p. 52; THE STRUCTURE OF THE INTERSTELLAR MEDIUM, Carl Heiles, p. 74; HOW BACTERIA STICK, J.W. COSTETION, G.G. GEESEY and K.-J. Cheng, p. 86; THE EFFICIENCY OF ALGORITHMS, HAITY R. Lewis and Christos H. Papadimitriou, p. 96; ROMAN CARTHAGE, John H. Humphrey and John Griffiths Pedley, p. 110; THE VISUAL CHARACTERISTICS OF WORDS, Peter Dunn-Rankin, p. 122.

February: DEINSTITUTIONALIZATION AND MENTAL HEALTH SERVICES, Ellen L. Bassuk and Samuel Gerson, p. 46; the origin of metal deposits in the oceanic lithosphere, Enrico Bonatti, p. 54; computer-controlled assembly, James L. Nevins and Daniel E. Whitney, p. 62; microcircuits in the nervous system, Gordon M. Shepherd, p. 92; carnivorous plants, Yolande Heslop-Hartison, p. 104; the genetics of human cancer, Carlo M. Croce and Hilary Koprowski, p. 117; supergravity and the unification of the Laws of Physics, Daniel Z. Freedman and Peter van Nieuwenhuizen, p. 126; passive cooling systems in Iranian architecture, Mehdi N. Bahadori, p. 144.

March: WORLD OIL PRODUCTION, Andrew R. Flower, p. 42; HEAVY LEPTONS, Martin L. Perl and William T. Kirk, p. 50; THE ELECTRONIC TELEPHONE, Peter P. Luff, p. 58; THE SURFACE OF MARS, Raymond E. Arvidson, Alan B. Binder and Kenneth L. Jones, p. 76; THE FLOW OF ENERGY IN A FOREST ECOSYSTEM, James R. Gosz, Richard T. Holmes, Gene E. Likens and F. Herbert Bormann, p. 92; HOW CELLS MAKE ATP, Peter C. Hinkle and Richard E. McCarthy, p. 104; THE COMBINATORIAL MATHEMATICS OF SCHEDULING, Ronald L. Graham, p. 124; PIETER BRUEGEL THE ELDER AS A GUIDE TO 16TH-CENTURY TECHNOLOGY, H. Arthur Klein, p. 134.

April: NUCLEAR POWER, NUCLEAR WEAPONS AND INTERNATIONAL STABILITY, David J. Rose and Richard K. Lester, p. 45; MICROVASCULAR SURGERY FOR STROKE, Jack M. Fein, p. 58; THE TRACKS OF MOVING CELLS, Guenter Albrecht-Buehler, p. 68; THE FOOD-SHARING BEHAVIOR OF PROTOHUMAN HOMINIDS, Glynn Isaac, p. 90; THE BIRTH OF MASSIVE STARS, MICHAEl Zeilik, p. 110; KIMBERLITE PIPES, Keith G. Cox, p. 120; INSECTS OF THE WATER SURFACE, LORUS J. Milne and Margery Milne, p. 134; ATMOSPHERIC HALOS, David K. Lynch, p. 144.

May: ENHANCED RADIATION WEAPONS, Fred M. Kaplan, p. 44; WHEN THE BLACK SEA WAS DRAINED, Kenneth J. HSü, p. 52; THE COSMIC BACKGROUND RADIATION AND THE NEW AETHER DRIFT, Richard A. Muller, p. 64; ULTRASOUND IN MEDICAL DIAGNOSIS, Gilbert B. Devey and Peter N.T. Wells, p. 98; THE LEK MATING SYSTEM OF THE SAGE GROUSE, R. Haven Wiley, Jr., p. 114; THE ADJACENCY PRINCIPLE IN VISUAL PERCEPTION, Walter C. Gogel, p. 126; JUNCTIONS BETWEEN LIVING CELLS, L. Andrew Stachelin and Barbara E. Hull, p. 140; ROMAN HYDRAULIC TECHNOLOGY, Norman Smith, p. 154.

June: ATTITUDES TOWARD RACIAL INTEGRATION, D. Garth Taylor, Paul B. Sheatsley and Andrew M. Greeley, p. 42; THE EARLIEST PRECURSOR OF WRITING, Denise Schmandt-Besserat, p. 50; EXOTIC LIGHT NUCLEI, Joseph Cerny and Arthur M. Poskanzer, p. 60; COSMIC MASERS, Dale F.

Dickinson, p. 90; the shaping of tissues in embryos, Richard Gordon and Antone G. Jacobson, p. 106; complexity theory, Nicholas Pippenger, p. 114; the preservation of stone, K. Lal Gauri, p. 126; the feeding behavior of mosquitoes, Jack Colvard Jones, p. 138.

Henry A. Lester, p. 106.

March: Superphénix: A full-scale breeder reactor, Georges A. Vendryes, p. 26; waves in the solar wind, J. T. Gosling and A. J. Hundhausen, p. 36; opiate receptors and internal opiates, Solomon H. Snyder, p. 44; biological nitrogen fixation, Winston J. Brill, p. 68; the acoustics of the singing voice, Johan Sundberg, p. 82; the oldest rocks and the growth of continents, Stephen Moorbath, p. 92; flashlight fishes, John E. McCosker, p. 106; the earliest Maya, Norman Hammond, p. 116.

April: THE IMPORTATION OF LIQUEFIED NATURAL GAS, Elisabeth Drake and Robert C. Reid, p. 22; THE COLLISION BETWEEN INDIA AND EURASIA, Peter Molnar and Paul Tapponnier, p. 30; THE STATUS OF INTERFERON, Derek C. Burke, p. 42; ALGORITHMS, Donald E. Knuth, p. 63; BIOCRYSTALS, Shinya Inoué and Kayo Okazaki, p. 82; THE COMPANIONS OF SUNLIKE STARS, Helmut A. Abt, p. 96; THE SPREAD OF THE BANTU LANGUAGE, D. W. Phillipson, p. 106; THE THEORY OF THE RAINBOW, H. Moysés Nussenzveig, p. 116.

May: UNDERGROUND RESERVOIRS TO CONTROL THE WATER CYCLE, Robert P. Ambroggi, p. 21; RAMAPITHECUS, Elwyn L. Simons, p. 28; AMORPHOUS-SEMICONDUCTOR DEVICES, David Adler, p. 36; CANCER IMMUNOLOGY, Lloyd J. Old, p. 62; THE CASE OF THE MISSING SUNSPOTS, John A. Eddy, p. 80; EXPLORING THE HERBARIUM, Siri von Reis Altschul, p. 96; RAT SOCIETIES, Richard Lore and Kevin Flannelly, p. 106; STEIN'S PARADOX IN STATISTICS, Bradley Efron and Carl Morris, p. 119.

June: THE DISPOSAL OF RADIOACTIVE WASTES FROM FISSION REACTORS, Bernard L. Cohen, p. 21; THE USES OF SYNCHROTRON RADIATION, Ednor M. Rowe and John H. Weaver, p. 32; MICROBIAL LIFE IN THE DEEP SEA, Holger W. Jannasch and Carl O. Wirsen, p. 42; BOK GLOBULES, Robert L. Dickman, p. 66; SPATIAL MEMORY, David S. Olton, p. 82; THE LESSON OF RETROLENTAL FIBROPLASIA, William A. Silverman, p. 100; LECTINS, Nathan Sharon, p. 108; POETIC RESPONSES TO THE COPERNICAN REVOLUTION, Margaret M. Byard, p. 120.

July: THE RECOMBINANT-DNA DEBATE, Clifford Grobstein, p. 22; THE ATMOSPHERE OF MARS, CONWAY B. Leovy, p. 34; VIRAL HEPATITIS, Joseph L. Melnick, Gordon R. Dreesman and E. Blain Hollinger, p. 44; BIOLOGICAL REGENERATION AND PATTERN FORMATION, Peter J. Bryant, Susan V. Bryant and Vernon French, p. 66; THE SOLIDIFICATION OF CEMENT, D. D. Double and A. Hellawell, p. 82; ANIONS OF THE ALKALI METALS, James L. Dye, p. 92; THE COMPOUND EYE OF INSECTS, p. G. Adrian Horridge, p. 108; GAUSS, Ian Stewart, p. 122.

August: The Salt Negotiations, Herbert Scoville, Jr., p. 24; BL LACERTAE OBJECTS, Michael J. Disney and Philippe Véron, p. 32; LIGHT-WAVE COMMUNICATIONS, W. S. Boyle, p. 40; THE FLOW OF HEAT FROM THE EARTH'S INTERIOR, Henry N. Pollack and David S. Chapman, p. 60; KANGAROOS, T. J. Dawson, p. 78; THE GAS VACUOLES OF BLUE-GREEN ALGAE, A. E. Walsby, p. 90; THE HISTORY OF THE AIRFLOW CAR, HOWARD S. Irwin, p. 98; "SECOND MESSENGERS" IN THE BRAIN, James A. Nathanson and Paul Greengard, p. 108.

September: MICROELECTRONICS, Robert N. Noyce, p. 62; MICROELECTRONIC CIRCUIT ELEMENTS, James D. Meindl, p. 70; THE LARGE-SCALE INTEGRATION OF MICROELECTRONIC CIRCUITS, William C. Holton, p. 82; THE FABRICATION OF MICROELECTRONIC CIRCUITS, William G. Oldham, p. 110; MICROELECTRONIC MEMORIES, David A. Hodges, p. 130; MICROPROCESSORS, HOO-MIN D. TOONG, p. 146; THE ROLE OF MICROELECTRONICS IN DATA PROCESSING, Lewis M. Terman, p. 162; THE ROLE OF MICROELECTRONICS IN INSTRUMENTATION AND CONTROL, BETNARD M. Oliver, p. 180; THE ROLE OF MICROELECTRONICS IN COMMUNICATION, John S. Mayo, p. 192; MICROELECTRONICS AND COMPUTER SCIENCE, IVAN E. Sutherland and Carver A. Mead, p. 210; MICROELECTRONICS AND THE PERSONAL COMPUTER, Alan C. Kay, p. 230.

October: PEER REVIEW AND THE SUPPORT OF SCIENCE, Stephen Cole, Leonard C. Robin and Jonathan R. Cole, p. 34; x-ray stars in Globular Clusters, George W. Clark, p. 42; fundamental particles with Charm, Roy F. Schwitters, p. 56; side-looking airborne radar, Homer Jensen, L. C. Graham, Leonard J. Porcello and Emmett N. Leith, p. 84; the structure and function of histocompatibility anticens, Bruce A. Cunningham, p. 96; the solution of the four-color-map problem, Kenneth Appel and Wolfgang Haken, p. 108; how the iron age began, Robert Maddin, James D. Muhly and Tamara S. Wheeler, p. 122;

HALLUCINATIONS, Ronald K. Siegel, p. 132.

November: THE JOB PROBLEM, Eli Ginzberg, p. 43; THE SEARCH FOR LIFE ON MARS, NOrman H. HOFOWITZ, p. 52; DRIP IRRIGATION, KODE Shoji, p. 62; THE CLUSTERING OF GALAXIES, Edward J. Groth, P. James E. Peebles, Michael Seldner and Raymond M. Soneira, p. 76; CATS AND COMMERCE, Neil B. Todd, p. 100; THE FUNCTIONS OF PALEOLITHIC FLINT TOOLS, Lawrence H. Keeley, p. 108; THE PROGRAM OF FERTILIZATION, David Epel, p. 128; AN EARLY ENERGY CRISIS AND ITS CONSEQUENCES, John U. Nef, p. 140.

December: PRODUCT TECHNOLOGY AND THE CONSUMER, G. Franklin Montgomery, p. 47; THE NUCLEOTIDE SEQUENCE OF A VIRAL DNA, John C. Fiddes, p. 54; THE MOTION OF THE GROUND IN EARTHQUAKES, David M. Boore, p. 68; THE EPIDEMIOLOGY OF INFLUENZA, Martin M. Kaplan and Robert G. Webster, p. 88; THE RETINEX THEORY OF COLOR VISION, Edwin H. Land, p. 108; DISCLINATIONS, William F. Harris, p. 130; Weaver ants, Berthold K. Hölldobler and Edward O. Wilson, p. 146; A CELTIC FARMSTEAD IN SOUTHERN BRITAIN, Geoffrey Wainwright, p. 156.

1978

January: THE CARBON DIOXIDE QUESTION, GEORGE M. WOOdwell, p. 34; THE SURGICAL REPLACEMENT OF THE HUMAN KNEE JOINT, David A. SONSTEGARD, LAIRY S. Matthews and Herbert Kaufer, p. 44; THE THREE-DIMENSIONAL STRUCTURE OF TRANSFER RNA, Alexander Rich and Sung Hou Kim, p. 52; THE STRUCTURE OF THE INTERSTELLAR MEDIUM, Carl Heiles, p. 74; HOW BACTERIA STICK, J.W. COSTERIAR, G.G. GEESEY and K.-J. Cheng, p. 86; THE EFFICIENCY OF ALGORITHMS, HAITY R. Lewis and Christos H. Papadimitriou, p. 96; ROMAN CARTHAGE, John H. Humphrey and John Griffiths Pedley, p. 110; THE VISUAL CHARACTERISTICS OF WORDS, Peter Dunn-Rankin, p. 122.

February: DEINSTITUTIONALIZATION AND MENTAL HEALTH SERVICES, Ellen L. Bassuk and Samuel Gerson, p. 46; The origin of metal deposits in the oceanic lithosphere, Enrico Bonatti, p. 54; computer-controlled assembly, James L. Nevins and Daniel E. Whitney, p. 62; Microcircuits in the nervous system, Gordon M. Shepherd, p. 92; carnivorous plants, Yolande Heslop-Hartison, p. 104; the genetics of human cancer, Carlo M. Croce and Hilary Koprowski, p. 117; supergravity and the unification of the laws of physics, Daniel Z. Freedman and Peter van Nieuwenhuizen, p. 126; passive cooling systems in Iranian architecture, Mehdi N. Bahadori, p. 144.

March: WORLD OIL PRODUCTION, Andrew R. Flower, p. 42; HEAVY LEPTONS, Martin L. Perl and William T. Kirk, p. 50; THE ELECTRONIC TELEPHONE, Peter P. Luff, p. 58; THE SURFACE OF MARS, Raymond E. Arvidson, Alan B. Binder and Kenneth L. Jones, p. 76; THE FLOW OF ENERGY IN A FOREST ECOSYSTEM, James R. Gosz, Richard T. Holmes, Gene E. Likens and F. Herbert Bormann, p. 92; How Cells Make Atp, Peter C. Hinkle and Richard E. McCarthy, p. 104; THE COMBINATORIAL MATHEMATICS OF SCHEDULING, Ronald L. Graham, p. 124; PIETER BRUEGEL THE ELDER AS A GUIDE TO 16TH-CENTURY TECHNOLOGY, H. Arthur Klein, p. 134.

April: NUCLEAR POWER, NUCLEAR WEAPONS AND INTERNATIONAL STABILITY, David J. Rose and Richard K. Lester, p. 45; MICROVASCULAR SURGERY FOR STROKE, Jack M. Fein, p. 58; THE TRACKS OF MOVING CELLS, Guenter Albrecht-Buehler, p. 68; THE FOOD-SHARING BEHAVIOR OF PROTOHUMAN HOMINIDS, Glynn Isaac, p. 90; THE BIRTH OF MASSIVE STARS, Michael Zeilik, p. 110; KIMBERLITE PIPES, Keith G. COX, p. 120; INSECTS OF THE WATER SURFACE, LORUS J. Milne and Margery Milne, p. 134; ATMOSPHERIC HALOS, David K. Lynch, p. 144.

May: ENHANCED RADIATION WEAPONS, Fred M. Kaplan, p. 44; WHEN THE BLACK SEA WAS DRAINED, Kenneth J. Hsü, p. 52; THE COSMIC BACKGROUND RADIATION AND THE NEW AETHER DRIFT, RICHARD A. Muller, p. 64; ULTRASOUND IN MEDICAL DIAGNOSIS, Gilbert B. Devey and Peter N.T. Wells, p. 98; THE LEK MATING SYSTEM OF THE SAGE GROUSE, R. Haven Wiley, Jr., p. 114; THE ADJACENCY PRINCIPLE IN VISUAL PERCEPTION, Walter C. Gogel, p. 126; JUNCTIONS BETWEEN LIVING CELLS, L. Andrew Staehelin and Batbara E. Hull, p. 140; ROMAN HYDRAULIC TLCHNOLOGY, Norman Smith, p. 154.

SCIENTIFIC AMERICAN

Index to Authors

Abegglen, James C THE ECONOMIC GROWTH OF JAPAN, 1970 Mar p 31

Abelson, Philip H PALEOBIOCHEMISTRY, 1956 July p 83 [101]

Abrams, Charles THE USES OF LAND IN CITIES, 1965 Sept p 150

Abt, Helmut A THE ROTATION OF STARS, 1963 Feb p 46, the companions of sunlike stars, 1977 Apr p 96 [359]

Acker, Robert F, and S E Hartsell FLEMINGS LYSOZYME, 1960 June p 132

Ackland, J H ARCHITECTURAL VAULTING, 1961 Nov p 144

Adams, Elijah Barbiturates, 1958 Jan p 60 [1081], POISONS, 1959 Nov p 76

Adams, Robert M the origins of the cities, 1960 Sept p 153 [606]

Adler, David AMORPHOUS SEMICONDUCTOR DEVICES, 1977 May p 36 [362]

Adler, Julius the sensing of Chemicals by BACTERIA, 1976 Apr p 40 [1337] Adler, Selig THE OPERATION ON PRESIDENT

MCKINLEY, 1963 Mar p 118 Adolph, E. F THE HEARTS PACEMAKER, 1967

Mar p 32 [1067]

Adrian, E D PHYSIOLOGY, 1950 Sept p 71 Agranoff, Bernard W MEMORY AND PROTEIN SYNTHESIS, 1967 June p 115 [1077]

Ahmadjian, Vernon The FUNGI OF LICHENS, 1963 Feb p 122

Aird Robert B BARRIERS IN THE BRAIN, 1956 Fcb p 101

Ajl, Samuel J, Solomon Kadıs and Thomas C Montie PLAGUE TOXIN, 1969 Mar

Akasofu, Syun-Ichi THE AURORA, 1965 Dec p 54

Albersheim, Peter THE WALLS OF GROWING HANT CLLLS, 1975 Apr p 80 [1320] Albrecht-Buchler, Guenter THE TRACKS OF

MOVING CELLS, 1978 Apr p 68 [1386] Albus, James S., and John M. Evans, Jr ROBOT SYSTEMS, 1976 Feb p 76

Alder, B J, and Thomas E Wainwright MOLICULAR MOTIONS, 1959 Oct p 113 [265] Alexander, Archibald S THI COST OF WORLD ARMANIENTS, 1969 Oct p 21 [650]

Alexander, Peter RADIATION IMITATING CHEMICALS, 1960 Jan p 99

Alexander, W O THE COMPETITION OF MATERIALS, 1967 Sept p 254

Alfano, R. R., and S L Shapiro ultrafast PHENOMENA IN LIQUIDS AND SOLIDS, 1973 June n 42

Alfven, Hannes ELECTRICITY IN SPACE, 1952 May p 26, ANTIMATTER AND COSMOLOGY, 1967 Apr p 106 [311]

Allcock, Harry R. Inorganic Polymers, 1974 Mar p 66

Alldredge, Alice APPENDICULARIANS, 1976 July p 94

Allen, Robert D THE MOMENT OF FERTILIZATION 1959 July p 124, amoeboid movement, 1962 Feb p 112 [182]

Allen, William W, and Ray F Smith INSECT CONTROL AND THE BALANCE OF NATURE, 1954 June p 38

Allfrey, Vincent G, and Alfred E. Mirsky How CELLS MAKE MOLECULES, 1961 Sept p 74 [92]

Allison, Anthony C SICKLE CELLS AND EVOLUTION, 1956 Aug. p 87 [1065], LYSOSOMES AND DISEASE, 1967 Nov p 62

Almgren, Frederick J., Jr., and Jean E. Taylor THE GEOMETRY OF SOAP FILMS AND SOAP BUBBLES, 1976 July p 82

Almond, Richard THE THERAPEUTIC COMMUNITY, 1971 Mar p 34 [534]

Altschul, Siri von Reis EXPLORING THE HERBARIUM, 1977 May p 96 [1359]

Alvarado, Carlos A, and L J Bruce-Chwatt MALARIA, 1962 May p 86

Alvares, Alvito P, and Attallah Kappas How THE LIVER METABOLIZES FOREIGN SUBSTANCES, 1975 June p 22 [1322]

Amaldi, Ugo Proton interactions at High

ENERGIES, 1973 Nov p 36 Amann, R., and R W Davies Science Policy IN THEUSSR, 1969 June p 19

Ambroggi, Robert P WATER UNDER THE SAHARA, 1966 May p. 21, UNDERGROUND RESERVOIRS TO CONTROL THE WATER CYCLE, 1977 May p 21 [924]

Amelio, Gilbert F CHARGE COLILED DEVICES, 1974 Fcb p 22

Amerine Maynard A wisk, 1964 Aug. p. 46 [190]

Amoore, John E, James W Johnston, Jr., and Martin Rubin THE STEREOCHEMICAL THEORY of odor, 1964 Feb p 42

Amos, William H THE LIFE OF A SAND DUNE, 1959 July p 91

Anati, Emmanuel prehistoric art in the alps, 1960 Jan p 52

Anders, Edward DIAMONDS IN METEORITES, 1965 Oct p 26

Anderson, A J, and E. J Underwood TRACE ELEMENT DESERTS, 1959 Jan p 97

Anderson, Don L the plastic layer of the EARTH S MANTLE, 1962 July p 52 [855], THE SAN ANDREAS FAULT, 1971 Nov p 52 [896]

Anderson, Douglas D A STONE AGE CAMPSITE AT THE GATEWAY TO AMERICA, 1968 June p 24 Anderson, Kinsey A SOLAR PARTICLES AND

COSMIC RAYS, 1960 June p 64

Andrade, E. N da C ROBERT HOOKE, 1954 Dec p 94, the birth of the nuclear atom, 1956 Nov p 93

Andrew, Richard J THE ORIGINS OF FACIAL EXPRESSIONS, 1965 Oct p 88 [627]

Andrewes, Christopher Howard THE COMMON COLD, 1951 Feb p 39, THE VIRUSES OF THE COMMON COLD, 1960 Dec p 88

Angrist, Stanley W GALVANOMAGNETIC AND THERMOMAGNETIC EFFECTS, 1961 Dec p 124, FLUID CONTROL DEVICES, 1964 Dec p 80, PERPETUAL MOTION MACHINES, 1968 Jan p 114

Apfel, Robert E THE TENSILE STRENGTH OF LIQUIDS, 1972 Dec p 58

Appel, Kenneth, and Wolfgang Haken THE SOLUTION OF THE FOUR COLOR MAP PROBLEM, 1977 Oct 108 [387]

Applegate, Vernon C, and James W Moffett THE SEA LAMPREY, 1955 Apr p 36

Arditti, Joseph Orchids, 1966 Jan. p 70 Arnold, James R., and E. A. Martell THE CIRCULATION OF RADIOACTIVE ISOTOPES, 1959 Sept p 84

Arnon, Daniel I THE ROLE OF LIGHT IN PHOTOSYNTHESIS, 1960 Nov p 104

Arp, Halton C THE EVOLUTION OF GALANIES. 1963 Jan p 70

Artamonov, M 1 FROZEN TOMBS OF THE SCYTHIANS, 1965 May p 100

Arvidson, Raymond E., Alan B. Binder and Kenneth L. Jones THE SURFACE OF MARS 1978 Mar p 76 [399]

		, ,
		17 st 22 st 24 st 25 st
		N 1-1 0-1 11 (12)
		τ,

Index to Authors

Boore

- Benson, Andrew A., and Richard F Lee the ROLEOF WAX IN OCEANIC FOOD CHAINS, 1975 Mar p 76 [1318]
- Benson, Herbert, and Robert Keith Wallace THE PHYSIOLOGY OF MEDITATION, 1972 Feb p 84 [1242]
- Bentley, David, and Ronald R Hoy THE SEUROBIOLOGY OF CRICKET SONG, 1974 Aug p 34 [1302]
- Benzer, Seymour the fine structure of the Gene, 1962 Jan p 70 [120], Genetic dissection of Behavior, 1973 Dec p 24 [1285]
- Benzinger, T H THE HUMAN THERMOSTAT, 1961 Jan p 134 [129]
- Beranek, Leo L Noise, 1966 Dec p 66 [306] Berelson, Bernard, and Ronald F Freedman a STUDY IN FERTILITY CONTROL, 1964 May p 29 [621], THE HUMAN POPULATION, 1974 Sept p 30
- Berenyi, Ivan computers in eastern europe, 1970 Oct p 102
- Beresford, Maurice a Deserted Medieval VILLAGE IN ENGLAND, 1976 Oct p 116 Berg, Howard C HOW BACTERIA SWIM, 1975 Aug p 36
- Berge, Glenn L, and George A Scielstad THE MAGNETIC FIELD OF THE GALAXY, 1965 June p. 46
- Berger, Harold Neutron Radiography, 1962 Nov p 107 [287]
- Berkeley, Edmund C SIMPLE SIMON, 1950 Nov p 40
- Berkowitz, Leonard THE EFFECTS OF OBSERVING VIOLENCE, 1964 Feb p 35 [481]
- Berlyne, Daniel E conflict and arousal, 1966 Aug p 82 [500]
- Berman, Arthur I observatories in space, 1963 Aug p 28
- Bernal, J D THE STRUCTURE OF LIQUIDS, 1960 Aug p 124
- Berns, Michael W, and Donald E Rounds CELL SURGERY BY LASER, 1970 Feb p 98 [1170] Bernstein, Alex, and M de V Roberts
- COMPUTER V CHESS-PLAYER, 1958 June p 96 Bernstein, Joseph TSUNAMIS, 1954 Aug p 60 Beroza, Morton, and Martin Jacobson Insect
- ATTRACTANTS, 1964 Aug p 20 [189]
 Bernil, N J THE INDESTRUCTIBLE HYDRA, 1957
- Dec p 118, salpa, 1961 Jan p 150 Berry, Joseph and Olle Bjorkman High EFFICIENCY PHOTOSYNTHESIS, 1973 Oct. p 80 [128]
- Bertman, Bernard, and David J Sandiford
 "SECOND SOUND IN SOLID HELIUM, 1970 May
 p 92
- Bertman, Bernard, and Robert A Guyer solid HELIUM, 1967 Aug p 84
- Bertram, Brian C. R. THE SOCIAL SYSTEM OF LIONS, 1975 May p. 54
- Best, Jay Boyd PROTOPSYCHOLOGY, 1963 Feb p 54 [149]
- Beteille, Andre, and M. N. Stinivas The "Untouchables" of India, 1965 Dec. p. 13. Bethe, Hans A. The Hydrogen Bomb 11, 1950 Apr. p. 18, what holds the nucleus togethers, 1953 Sept. p. 58, The necessity of
- FISSION POWER, 1976 Jan p 21 [348]
 Bethe, Hans A. Richard L. Garwin, and Ronald
 F. Freedman ANTI BALLISTIC MISSILE SYSTEMS
 1968 Mar. p. 21
- Bettelheim, Bruno schizophrenicart a case Study, 1952 Apr p 30, Joey a Mechanical Boy, 1959 Mar p 116 [439]
- Bettelheim, Bruno, and Morris Janowitz. PRIJUDICL, 1950 Oct. p. 11

- Biale, J B the ripening of fruit, 1954 May p 40 [118]
- Bibby, Thomas G HISTORY IN A PEAT BOG, 1953 Oct p 84
- Bibby, Thomas G, and P V Glob a forgotten civilization of the persian gulf, 1960 Oct p 62
- Biddle, Martin the archaeology of winchester, 1974 May p 32
- Biddulph, Susann and Orlin the circulatory system of plants, 1959 Feb p 44 [53] Bierlein, John C the Journal Bearing, 1975
- July p 50
 Biermann, Ludwig F, and Rhea Lust THETAILS
- of comets, 1958 Oct p 44
 Biesele, John J Tissue culture and cancer,
- 1956 Oct p 50
 Bilaniuk, Olexa-Myron Semiconductor
- PARTICLE DETECTORS, 1962 Oct p 78 [284] Billingham, Rupert E, and Alan E Beer the EMBRYO AS A TRANSPLANT, 1974 April 36
- Billingham, Rupert E, and Willys K Silvers SKIN TRANSPLANTS AND THE HAMSTER, 1963 Jan p 118 [148]
- Billington, Douglas S IONIZING RADIATION AND METALS, 1959 Sept p 200
- Binder, Alan B, Raymond E Arvidson and Kenneth L Jones the surface of Mars, 1978 Mar p 76 [399]
- Binford, Lewis R. and Sally R STONE TOOLS AND HUMAN BEHAVIOR, 1969 Apr p 70 [643]
- Bing, Richard J HEART METABOLISM, 1957 Feb
- Birch, Herbert G, Alexander Thomas and Stella Chess the origin of personality, 1970 Aug p 102 [529]
- Birley, Robin a frontier post in roman Britain, 1977 Feb p 38 [692]
- Bishop, J.A., and Laurence M. Cook MOTHS MELANISM AND CLEAN AIR, 1975 Jan p. 90 [1314]
- Bisplinghoff, R L THE SUPERSONIC TRANSPORT, 1964 June p 25
- Bitter, Francis ultrastrong magnetic fields, 1965 July p 64
- Bitterman, M E THE EVOLUTION OF INTELLIGENCE, 1965 Jan p 92 [490]
- Bizzi, Emilio the coordination of eye head movements, 1974 Oct p 100 [1305]
- Bjork, Lars E an experiment in work satisfaction, 1975 Mar p 17
- Bjorkman, Olle, and Joseph Berry High EFFICIENCY PHOTOSYNTHESIS, 1973 Oct p 80 [1281]
- Blaauw, Adriaan Young Stars, 1956 Feb p 36 Blackett, P M S is the atomic bomb an absolute weapon?, 1949 Mar p 13, steps toward disarmament, 1962 Apr p 45
- Blackham, E Donnell the physics of the piano, 1965 Dec p 88
- Blackler, Antonie W, and Michail Fischberg HOW CELLS SPECIALIZE, 1961 Sept p 124 [94] Blackwell, D E THE ZODIACAL LIGHT, 1960 July
- Blackwell, David and Richard Bellman RED DOG BLACKJACK AND POKER, 1951 Jan p 44 Blake, Judith The CHANGING STATUS OF WOMEN IN DEVELOPED COUNTRIES, 1974 Sept p 136 Blatt, John M TIME REVERSAL, 1956 Aug p 107 Blegen, Carl W KING NESTOR'S PALACE, 1958 May p 110
- Bloch, M. R. THE SOCIAL INFLUENCE OF SALT, 1963 July p. 88
- Bloch, Raymond THE ETRUSCANS, 1962 Feb p 82, THE ORIGINS OF THE OLYMPIC GAMES, 1968 Aug p 78

- Bloom, Arnold L optical pumping, 1960 Oct p 72
- Bloom, Harold, and Harold F Walton CHEMICAL PROSPECTING, 1957 July p 41 Bloom, Justin L, and Glenn T Seaborg the SYNTHETIC ELEMENTS IV, 1969 Apr p 56, FAST
- BREEDER REACTORS, 1970 Nov p 13 [339] Blough, Donald S EXPERIMENTS IN ANIMAL PSYCHOPHYSICS, 1961 July p 113 [458]
- Blumenfeld, Hans the Modern Metropolis, 1965 Sept p 64
- Blumenstock, David I the upper atmosphere, 1949 Jan p 30, weather instruments, 1951 Dec p 64
- Blumer, Max Polycyclic Aromatic COMPOUNDS IN NATURE, 1976 Mar p 34 Blumstein, Alfred, and Seymour Deitchman AIR TRAFFIC CONTROL, 1960 Dec p 47
- Bobeck, Andrew H, and H E D Scovil
 MAGNETIC BUBBLES, 1971 June p 78
- Bodian, David THE PARALYTIC PLAGUE, 1950
 Aug p 22
- Bodmer, Walter F, and Luigi Luca Cavalli-Sforza intelligence and race, 1970 Oct p 19 [1199]
- Boehm, George A W TITANIUM ANEW METAL, 1949 Apr p 48 [258]
- Boehm, George A W, and Teru Hayashi ARTIFICIAL MUSCLE, 1952 Dec p 18
- Boehm, George A. W., H. B. Goodrich and R. H. Knapp the origins of us scientists, 1951 July p. 15
- Boerma, Addeke H a world agricultural plan, 1970 Aug p 54 [1186]
- Bogert, Charles M HOW REPTILES REGULATE THEIR BODY TEMPERATURE, 1959 Apr p 105 Bohr, Niels Tribute to Albert Einstein 1879 1955, 1955 June p 31
- Bok, Bart J The Milky Way, 1950 Feb p 30, THE SOUTHERN SKY, 1952 July p 46, A NATIONAL RADIO OBSERVATORY, 1956 Oct p 56, THE ARMS OF THE GALAXY, 1959 Dec p 92, THE LARGE CLOUD OF MAGELLAN, 1964 Jan p 32, THE BIRTH OF STARS, 1972 Aug p 48
- Bok, Sissela the ethics of giving placebos, 1974 Nov p 17
- Bolef, Dan I, and Richard D English Defense AGAINST BOMBER ATTACK, 1973 Aug p 11 Bolin, Bert THE CARBON CYCLE, 1970 Sept p 124 [1193]
- Bolt, Bruce A the fine structure of the Earth sinterior, 1973 Mar p 24 [906]
 Bonalti, Enrico the origin of metal deposits in the oceanic lithosphere, 1978 Feb p 54 [929]
- Bonner, James CHEMICAL WARFARE AMONG THE PLANTS, 1949 Mar p 48
- Bonner, John Tyler the social amoebae, 1949
 June p 44, volvox a colony of cells, 1950
 May p 52, the horn of the unicorn, 1951
 Mar p 42, d arcy thompson, 1952 Aug
 p 60, the growth of mushrooms, 1956 May
 p 97, differentiation in social amoebae,
 1959 Dec p 152, how slime molds
 communicate, 1963 Aug p 84 [164],
 hormones in social amoebae and mammals,
- 1969 June p 78
 Bonner, W A., and P O'B Montgomery A
 "FLYING-SPOT" MICROSCOPE, 1958 May p 38
 Bonney, Walter T HIGH SPEED RESEARCH
- AIRPLANES, 1953 Oct p 36
 Boon, George C COUNTERFEITING IN ROMAN
- BRITAIN, 1974 Dec. p. 120
 Boore, David M. THE MOTION OF THE GROUND IN
 EARTHQUAKES, 1977 Dec. p. 68 [928]

Asch, Solomon E OPINIONS AND SOCIAL PRESSURE, 1955 Nov p 31 [450] Ashby, Eric Leaf Shape, 1949 Oct p 22 Asheroft, N W LIQUID METALS, 1969 July p 72 Ashkin, Arthur the pressure of laser light, 1972 Feb p 62

Asmundson, Sally J, and Eric T Pengelley ANNUAL BIOLOGICAL CLOCKS, 1971 Apr p 72

Astbury, W T FLAGELLA, 1951 Jan p 20 Astin, Allen V STANDARDS OF MEASUREMENT, 1968 June p 50

Athay, R Grant THE SOLAR CHROMOSPHERE, 1962 Feb p 50

Atkinson, Richard C, and Richard M Shiffrin THE CONTROL OF SHORT TERM MEMORY, 1971 Aug p 82 [538]

Attneave, Fred MULTISTABILITY IN PERCEPTION, 1971 Dec p 62 [540]

Atwater, Montgomery M SNOW AVALANCHES, 1954 Jan p 26

Atwood, Genevieve THE STRIP MINING OF WESTERN COAL, 1975 Dec p 23

Auden, W H A NEW YEAR GREETING, 1969 Dec p 134

Austin, Leonard G FUEL CELLS, 1959 Oct p 72 Avery, George S, Jr the dying oaks, 1957 May

Avery, Mary Ellen, Nai-San Wang and H William Taeusch, Jr THE LUNG OF THE NEWBORN INFANT, 1973 Apr p 74

Axelrod, Julius NEUROTRANSMITTERS, 1974 June p 58 [1297]

Axelrod, Julius, and Richard J Wurtman THE PINEAL GLAND, 1965 July p 50 [1015] Ayer, A J CHANCE, 1965 Oct p 44

Ayres, Eugene the fuel problem, 1949 Dec p 32, POWER FROM THE SUN, 1950 Aug p 16, WINDOWS, 1951 Feb p 60, AN AUTOMATIC CHEMICAL PLANT, 1952 Sept p 82, THE FUEL SITUATION, 1956 Oct p 43

Azbel', M Ya, M I Kaganov and I M Lifshitz CONDUCTION ELECTRONS IN METALS, 1973 Jan p 88

Baade, Walter THE CONTENT OF GALAXIES, 1956 Sept p 92

Babcock, Horace W THE MAGNETISM OF THE sun, 1960 Feb p 52

Bacher, Robert F THE HYDROGEN BOMB III, 1950 May p 11

Bachmann, H G THE ORIGIN OF ORES, 1960 June p 146

Backer, Stanley YARN, 1972 Dec p 46 Badash, Lawrence HOW THE NEWER ALCHEMY WAS RECEIVED, 1966 Aug p 88

Bahadori, Mehdi N PASSIVE COOLING SYSTEMS IN IRANIAN ARCHITECTURE, 1978 Feb p 144 17051

Bahcall, John N NEUTRINOS FROM THE SUN, 1969 July p 28

Bailey, Herbert S, Jr THE VOYAGE OF THE CHALLENGER, 1953 May p 88

Bailey, Herbert S, Jr, and Albert W Tucker TOPOLOGY, 1950 Jan p 18 Baker, D James, Jr MODELS OF OCEANIC

CIRCULATION, 1970 Jan p 114 [890] Baker, Peter F THE NERVEANON, 1966 Mar p 74 [1038]

Bakker, Robert T DINOSAUR RENAISSANCE, 1975 Apr p 38 [916] Baldwin, Ralph B THE CRATERS OF THE MOON,

1949 July p 20

Bales, Robert F HOW PEOPLE INTERACT IN CONFERENCES, 1955 Mar p 31

Baltimore, David, and Deborah H Spector THE MOLECULAR BIOLOGY OF POLIOVIRUS, 1975 May p 24

Bandura, Albert BEHAVIORAL PSYCHOTHERAPY, 1967 Mar p 78 [505]

Bank, T P THE ALEUTS, 1958 Nov p 112 Barad, Morton L LOW ALTITUDE IET STREAMS. 1961 Aug p 120

Baranger, Michel, and Raymond A Sorensen THE SIZE AND SHAPE OF ATOMIC NUCLEI, 1969 Aug p 58

Barber, Bernard THE ETHICS OF EXPERIMENTATION WITH HUMAN SUBJECTS, 1976 Feb p 25

Barber, Theodore X EXPERIMENTS IN HYPNOSIS, 1957 Apr p 54

Barger, Vernon D, and David B Cline HIGH ENERGY SCATTERING, 1967 Dec p 76 Barghoorn, Elso S THE OLDEST FOSSILS, 1971 May p 30 [895]

Barish, Barry C EXPERIMENTS WITH NEUTRINO BEAMS, 1973 Aug p 30

Barker, M E WARM CLOTHES, 1951 Mar p 56 Barnard, Chester I ARMS RACE V CONTROL, 1949 Nov p 11, a national science policy, 1957 Nov p 45

Barnea, Joseph GEOTHERMAL POWER, 1972 Jan p 70 [898]

Barnes, Virgil E TEKTITES, 1961 Nov p 58 [802]

Barnett, S A RATS, 1967 Jan p 78 Barrett, Alan H RADIO SIGNALS FROM HYDROXYL RADICALS, 1968 Dec p 36

Barron, Frank THE PSYCHOLOGY OF IMAGINATION, 1958 Sept p 150 [432]

Barron, Frank, Murray E Jarvik and Sterling Bunnell, Jr the hallucinogenic drugs, 1964 April 29 [483]

Barry, J M THE SYNTHESIS OF MILK, 1957 Oct p 121

Barthel, Thomas S THE TALKING BOARDS OF EASTER ISLAND, 1958 June p 61

Barthold, LO, and H G Pfeiffer HIGH VOLTAGE POWER TRANSMISSION, 1964 May

Bartholomew, George A, and Bernd Heinrich TEMPERATURE CONTROL IN FLYING MOTHS, 1972 June p 70 [1252]

Bartholomew, George A, and Jack W Hudson DESERT GROUND SQUIRRELS, 1961 Nov p 107 Bartlett, Paul D Free RADICALS, 1953 Dec p 74

Bartley W W, III LEWIS CARROLL S LOST BOOK on Logic, 1972 July p 38

Bascom, Willard THE DISPOSAL OF WASTE IN THE OCEAN, 1974 Aug p 16 THE MOHOLE, 1959 Apr p 41, OCEAN WAVES, 1959 Aug p 74 [828], BEACHES, 1960 Aug p 80 [845], TECHNOLOGY AND THE OCEAN, 1969 Sept p 198 [887]

Baserga, Renato, and Walter E Kısıeleskı AUTOBIOGRAPHIES OF CELLS, 1963 Aug p 103 [165]

Bass, Arnold M, and Charles M Herzfeld FROZEN FREE RADICALS, 1957 Mar p 90 [263] Bass, George F A BYZANTINE TRADING VENTURE, 1971 Aug p 22

Bassett, C Andrew L ELECTRICAL EFFECTS IN BONE, 1965 Oct p 18

Bassett, William A, and Taro Takahashi THE COMPOSITION OF THE EARTH S INTERIOR, 1965 June p 100

Bassham, J A THE PATH OF CARBON IN PHOTOSY NTHESIS, 1962 June p 88 [122] Bassuk, Ellen L, and Samuel Gerson DEINSTITUTIONALIZATION AND MENTAL HEALTH SERVICES, 1978 Feb p 46 [581]

Batra, Lekh R, and Suzanne W T THEFUNGUS GARDENS OF INSECTS, 1967 Nov p 112. [1086] Baum, William A ELECTRONIC PHOTOGRAPHY OF STARS, 1956 Mar p 81

Baumeister, Philip, and Gerald Pincus OPTICAL INTERFERENCE COATINGS, 1970 Dec p 58 Bazelon, David L PSYCHIATRISTS AND THE

ADVERSARY PROCESS, 1974 June p 18 Beach, Alice PLANETS FROM PALOMAR, 1953 Feb p 17

Beadle, George W THE GENES OF MEN AND MOLDS, 1948 Sept p 30[1], IONIZING RADIATION AND THE CITIZEN, 1959 Sept p 219

Beale, Ivan L, and Michael C Corballis on TELLING LEFT FROM RIGHT, 1971 Mar p 96 [535]

Beals, C S FOSSIL METEORITE CRATERS, 1958 July p 32

Beams, Jesse W ultrahigh speed rotation, 1961 Apr p 134

Bearn, A G THE CHEMISTRY OF HEREDITARY DISEASE, 1956 Dec p 126

Bearn, A G and James L German III CHROMOSOMES AND DISEASE, 1961 Nov p 66

Bebbington, William P THE REPROCESSING OF NUCLEAR FUELS, 1976 Dec p 30

Beck, Jacob The Perception of Surface COLOR 1975 Aug p 62 [565]

Beck, Stanley D AN INSECT AND A PLANT, 1958 May p 87, INSECTS AND THE LENGTH OF THE DAY, 1960 Feb p 108

Becker, John V RE ENTRY FROM SPACE, 1961 Jan p 49

Becker, Joseph J PERMANENT MAGNETS, 1970 Dec p 92

Becklin, Eric E, and G Neugebauer THE BRIGHTEST INFRARED SOURCES, 1973 Apr

Beecher, Henry K ANESTHESIA, 1957 Jan p 70 Beer, Alan E., and Rupert E Billingham THE EMBRYO AS A TRANSPLANT, 1974 Apr p 36 Beermann, Wolfgang, and Ulrich Clever CHROMOSOME PUFFS, 1964 Apr p 50 [180] Bell, Richard H V A GRAZING ECOSYSTEM IN THE

SERENGETI, 1971 July p 86 [1228] Bellman, Richard CONTROL THEORY, 1964 Sept p 186

Bellman, Richard, and David Blackwell RED DOG BLACKJACK AND POKER, 1951 Jan p 44 Bello, Francis, and Maarten Schmidt THE EVOLUTION OF QUASARS, 1971 May p 54

Belousov, V V EXPERIMENTAL GEOLOGY, 1961 Feb p 96 Benade, Arthur H THE PHYSICS OF WOOD WINDS,

1960 Oct p 144 the physics of brasses, 1973 July p 24

Benditt, Earl P THE ORIGIN OF ATHEROSCLEROSIS 1977 Feb p 74 [1351]

Benedek, George B MAGNETIC RESONANCE AT HIGH PRESSURE, 1965 Jan p 102

Benfield, A. E. the EARTH'S MAGNETISM 1950 June p 20, the LARTH SHEAT, 1950 Dec p 54 Benjamin, J S MECHANICAL ALLOYING, 1976 May p 40

Bennet Clark, H C, and A W Ewing, THE LOVE 50 G OF THE FRUIT FLY, 1970 July p 84 [1183] Bennett, Edward L., Marian Cleeves Diamond and Mark R. Rosenzweig BRAIN CHANGES IN RESPONSE TO EXPERIENCE, 1972 Feb p 22

Bennett, Frederick D EXPLODING WIRES 1962 May p 102

- Benson, Andrew A, and Richard F Lee THE ROLE OF WAX IN OCEANIC FOOD CHAINS, 1975 Mar p 76 [1318]
- Benson, Herbert, and Robert Keith Wallace THE PHYSIOLOGY OF MEDITATION, 1972 Feb p 84 [1242]
- Bentley, David, and Ronald R. Hoy THE NEUROBIOLOGY OF CRICKET SONG, 1974 Aug p 34 [1302]
- Benzer, Seymour THE FINE STRUCTURE OF THE GENE, 1962 Jan p 70 [120], GENETIC DISSECTION OF BEHAVIOR, 1973 Dec p 24 [1285]
- Benzinger, T H THE HUMAN THERMOSTAT, 1961 Jan p 134 [129]
- Beranek, Leo L NOISE, 1966 Dec p 66 [306] Berelson, Bernard, and Ronald F Freedman A STUDY IN FERTILITY CONTROL, 1964 May p 29 [621], THE HUMAN POPULATION, 1974 Sept p 30
- Berenyi, Ivan Computers in Eastern Europe, 1970 Oct p 102
- Beresford, Maurice A DESERTED MEDIEVAL VILLAGE IN ENGLAND, 1976 Oct p 116
- Berg, Howard C How BACTERIA SWIM, 1975 Aug p 36
- Berge, Glenn L, and George A Seielstad THE MAGNETIC FIELD OF THE GALAXY, 1965 June
- Berger, Harold NEUTRON RADIOGRAPHY, 1962 Nov p 107 [287]
- Berkeley, Edmund C SIMPLE SIMON, 1950 Nov p 40
- Berkowitz, Leonard THE EFFECTS OF OBSERVING VIOLENCE, 1964 Feb p 35 [481] Berlyne, Daniel E CONFLICT AND AROUSAL, 1966
- Aug. p 82 [500] Berman, Arthur I OBSERVATORIES IN SPACE, 1963
- Aug p 28 Bernal, J D THE STRUCTURE OF LIQUIDS, 1960
- Aug. p 124
- Berns, Michael W, and Donald E. Rounds CELL SURGERY BY LASER, 1970 Feb p 98 [1170] Bernstein, Alex, and M de V Roberts
- COMPUTER V CHESS-PLAYER, 1958 June p 96 Bernstein, Joseph TSUNAMIS, 1954 Aug p 60 Beroza, Morton, and Martin Jacobson INSECT ATTRACTANTS, 1964 Aug p 20 [189]
- Bernil, N J THE INDESTRUCTIBLE HYDRA, 1957 Dec p 118, SALPA, 1961 Jan p 150
- Berry, Joseph and Olle Bjorkman High EFFICIENCY PHOTOSYNTHESIS, 1973 Oct p 80 [1281]
- Bertman, Bernard, and David J Sandiford "SECOND SOUND" IN SOLID HELIUM, 1970 May
- Bertman, Bernard, and Robert A Guyer SOLID HELIUM, 1967 Aug p 84
- Bertram, Brian C R. THE SOCIAL SYSTEM OF Lions, 1975 May p 54
- Best, Jay Boyd PROTOPSYCHOLOGY, 1963 Feb P 54 [149] Beteille, Andre, and M N Srinivas THE
- UNTOUCHABLES OF INDIA, 1965 Dec p 13 Bethe, Hans A THE HYDROGEN BOMB II, 1950 Apr p 18, WHAT HOLDS THE NUCLEUS TOGETHER?, 1953 Sept p 58, THE NECESSITY OF FISSION FOWER, 1976 Jan p 21 [348]
- Bethe, Hans A, Richard L Garwin, and Ronald F Freedman ANTI BALLISTIC MISSILE SYSTEMS, 1968 Mar p 21
- Bettelheim, Bruno SCHIZOPHRENIC ART A CASE STUDY, 1952 Apr p 30, JOHY A "MECHANICAL BOY", 1959 Mar p 116 [439]
- Bettelheim, Bruno, and Morris Janowitz. PREJUDICE, 1950 Oct p 11

- Biale, J B THE RIPENING OF FRUIT, 1954 May p 40 [118]
- Bibby, Thomas G HISTORY IN A PEAT BOG, 1953 Oct p 84
- Bibby, Thomas G, and P V Glob A FORGOTTEN CIVILIZATION OF THE PERSIAN GULF, 1960 Oct p 62
- Biddle, Martin THE ARCHAEOLOGY OF WINCHESTER, 1974 May p 32
- Biddulph, Susann and Orlin THE CIRCULATORY SYSTEM OF PLANTS, 1959 Feb p 44 [53]
- Bierlein, John C THE JOURNAL BEARING, 1975 Julyp 50
- Biermann, Ludwig F, and Rhea Lust THETAILS OF COMETS, 1958 Oct p 44
- Biesele, John J tissue culture and cancer, 1956 Oct p 50
- Bilaniuk, Olexa-Myron SEMICONDUCTOR PARTICLE DETECTORS, 1962 Oct p 78 [284] Billingham, Rupert E., and Alan E Beer THE
- embryo as a transplant, 1974 April 36 Billingham, Rupert E, and Willys K Silvers
- SKIN TRANSPLANTS AND THE HAMSTER, 1963 Jan p 118 [148]
- Billington, Douglas S IONIZING RADIATION AND METALS, 1959 Sept p 200
- Binder, Alan B, Raymond E Arvidson and Kenneth L Jones the surface of Mars, 1978 Mar p 76 [399]
- Binford, Lewis R. and Sally R STONE TOOLS AND HUMAN BEHAVIOR, 1969 Apr p 70 [643]
- Bing, Richard J HEART METABOLISM, 1957 Feb p 50
- Birch, Herbert G, Alexander Thomas and Stella Chess the origin of personality, 1970 Aug p 102 [529]
- Birley, Robin A FRONTIER POST IN ROMAN BRITAIN, 1977 Feb p 38 [692]
- Bishop, J A, and Laurence M Cook MOTHS MELANISM AND CLEAN AIR, 1975 Jan p 90 [1314]
- Bisplinghoff, R L THE SUPERSONIC TRANSPORT, 1964 June p 25
- Bitter, Francis ultrastrong magnetic fields,
- 1965 July p 64 Bitterman, M E THE EVOLUTION OF
- INTELLIGENCE, 1965 Jan p 92 [490] Bizzi, Emilio the coordination of eye head MOVEMENTS, 1974 Oct p 100 [1305]
- Bjork, Lars E. an experiment in work SATISFACTION, 1975 Mar p 17
- Bjorkman, Olle, and Joseph Berry нібн EFFICIENCY PHOTOSYNTHESIS, 1973 Oct p 80
- Blaauw, Adriaan Young stars, 1956 Feb p 36 Blackett, P M S IS THE ATOMIC BOMB AN ABSOLUTE WEAPON?, 1949 Mar p 13, STEPS TOWARD DISARMAMENT, 1962 Apr p 45
- Blackham, E. Donnell THE PHYSICS OF THE PIANO, 1965 Dec p 88
- Blackler, Antonie W, and Michail Fischberg HOW CELLS SPECIALIZE, 1961 Sept p 124 [94] Blackwell, D E. THE ZODIACAL LIGHT, 1960 July p 54
- Blackwell, David and Richard Bellman RED DOG BLACKJACK AND POKER, 1951 Jan p 44 Blake, Judith THE CHANGING STATUS OF WOMEN IN DEVELOPED COUNTRIES, 1974 Sept p 136 Blatt, John M TIME REVERSAL, 1956 Aug p 107
- Blegen, Carl W KING NESTOR'S PALACE, 1958 May p 110
- Bloch, \tilde{M} R. The social influence of salt, 1963 July p 88
- Bloch, Raymond THE ETRUSCANS, 1962 Feb p 82, THE ORIGINS OF THE OLYMPIC GAMES, 1968 Aug p 78

- Bloom, Arnold L OPTICAL PUMPING, 1960 Oct p 72
- Bloom, Harold, and Harold F Walton CHEMICAL PROSPECTING, 1957 July p 41 Bloom, Justin L, and Glenn T Seaborg THE SYNTHETIC ELEMENTS IV, 1969 Apr p 56, FAST BREEDER REACTORS, 1970 Nov p 13 [339]
- Blough, Donald S EXPERIMENTS IN ANIMAL PSYCHOPHYSICS, 1961 July p 113 [458]
- Blumenfeld, Hans THE MODERN METROPOLIS, 1965 Sept p 64
- Blumenstock, David I THE UPPER ATMOSPHERE, 1949 Jan p 30, WEATHER INSTRUMENTS, 1951 Dec p 64
- Blumer, Max POLYCYCLIC AROMATIC COMPOUNDS IN NATURE, 1976 Mar p 34
- Blumstein, Alfred, and Seymour Deitchman AIR TRAFFIC CONTROL, 1960 Dec p 47 Bobeck, Andrew H, and H E D Scovil
- MAGNETIC BUBBLES, 1971 June p 78 Bodian, David THE PARALYTIC PLAGUE, 1950 Aug p 22
- Bodmer, Walter F, and Luigi Luca Cavalli-Sforza INTELLIGENCE AND RACE, 1970 Oct p 19 [1199]
- Boehm, George A W TITANIUM ANEW METAL, 1949 Apr p 48 [258]
- Boehm, George A W, and Teru Hayashi ARTIFICIAL MUSCLE, 1952 Dec p 18
- Boehm, George A W, H B Goodrich and R H Knapp the origins of u.s scientists, 1951 July p 15
- Boerma, Addeke H A WORLD AGRICULTURAL PLAN, 1970 Aug p 54 [1186]
- Bogert, Charles M HOW REPTILES REGULATE THEIR BODY TEMPERATURE, 1959 Apr p 105 Bohr, Niels TRIBUTE TO ALBERT EINSTEIN 1879-
 - 1955, 1955 June p 31
- Bok, Bart J THE MILKY WAY, 1950 Feb p 30, THE SOUTHERN SKY, 1952 July p 46, A NATIONAL RADIO OBSERVATORY, 1956 Oct p 56, the arms of the Galaxy, 1959 Dec D 92, THE LARGE CLOUD OF MAGELLAN, 1964 Jan p 32, the birth of stars, 1972 Aug p 48
- Bok, Sissela. THE ETHICS OF GIVING PLACEBOS, 1974 Nov p 17
- Bolef, Dan I, and Richard D English DEFENSE AGAINST BOMBER ATTACK, 1973 Aug p 11 Bolin, Bert THE CARBON CYCLE, 1970 Sept
- p 124 [1193] Bolt, Bruce A THE FINE STRUCTURE OF THE EARTH SINTERIOR, 1973 Mar p 24 [906]
- Bonatti, Enrico the origin of metal deposits IN THE OCEANIC LITHOSPHERE, 1978 Feb p 54 [929]
- Bonner, James CHEMICAL WARFARE AMONG THE PLANTS, 1949 Mar p 48
- Bonner, John Tyler the social amoebae, 1949 June p 44, VOLVOY ACOLONY OF CELLS, 1950 May p 52, THE HORN OF THE UNICORN, 1951 Mar p 42, DARCY THOMPSON, 1952 Aug p 60, THE GROWTH OF MUSHROOMS, 1956 May p 97, differentiation in social amoebae, 1959 Dec p 152, HOW SLIME MOLDS COMMUNICATE, 1963 Aug p 84 [164], HORMONES IN SOCIAL AMOEBAE AND MAMMALS,
- 1969 June p 78 Bonner, W A., and P O'B Montgomery A "FLYING SPOT MICROSCOPE, 1958 May p 38
- Bonney, Walter T HIGH SPEED RESEARCH AIRPLANES, 1953 Oct. p 36 Boon, George C COUNTERFEITING IN ROMAN
- BRITAIN, 1974 Dec p 120 Boore, David M THE MOTION OF THE GROUND IN EARTHQUAKES, 1977 Dec p 68 [928]

- Borhegyi, Stephan F underwater Archaeology in the Maya Highlands, 1959 Mar p 100
- Bormann, F Herbert, and Gene E Likens THE NUTRIENT CYCLES OF AN ECOSYSTEM, 1970 Oct p 92 [1202]
- Bormann, F. Herbert, James R. Gosz, Richard T. Holmes and Gene E. Likens the FLOW OF ENERGY IN A FOREST ECOSYSTEM, 1978 Mar p. 92 [1384]
- Born, Max Physics, 1950 Sept p 28 Bornstein, Paul, and Russell Ross Elastic FIBERS IN THE BODY, 1971 June p 44 [1225]
- Bose, Nirmal Kumar CALCUTTA A PREMATURE METROPOLIS, 1965 Sept p 90
- Bostick, Winston H. PLASMOIDS, 1957 Oct p 87
- Boston Psychopathic Hospital, Six Staff Members of EXPERIMENTAL PSYCHOSES, 1955 June p 34
- Botelho, Stella Y TEARS AND THE LACRIMAL GLAND, 1964 Oct p 78
- Bovarnick, Marianna R RICKETTSIAE, 1955 Jan p 74
- Bower, T G R THE VISUAL WORLD OF INFANTS, 1966 Dec p 80 [502], THE OBJECT IN THE WORLD OF THE INFANT, 1971 Oct p 30 [539], REPETITIVE PROCESSES IN CHILD DEVELOPMENT, 1976 Nov p 38 [572]
- Bowers, Raymond Plasmas in solids, 1963 Nov. p 46, a solid state source of microwaves, 1966 Aug p 22
- Bowers, Raymond, and Harvey Brooks THE ASSESSMENT OF TECHNOLOGY, 1970 Feb p 13 [332]
- Bowers, Raymond, and Jeffrey Frey TECHNOLOGY ASSESSMENT AND MICROWAVE DIODES, 1972 Feb p 13
- Boycott, Brian B LEARNING IN THE OCTOPUS, 1965 Mar p 42 [1006]
- Boyd, William C Rh and THE RACES OF MAN, 1951 Nov p 22
- Boyden, Alan A THE BLOOD RELATIONSHIPS OF ANIMALS, 1951 July p 59
- Boyd-Orr, Lord John THE FOOD PROBLEM, 1950 Aug p 11
- Boyer, Carl B the invention of analytic geometry, 1949 Jan p 40, aristotles physics, 1950 May p 48
- Boyko, Hugo salt water agriculture, 1967 Mar p 89
- Boyle, W S LIGHT-WAVE COMMUNICATIONS, 1977 Aug p 40 [373]
- Boyse, Edward A, Lloyd J Old and H A Campbell L ASPARAGINE AND LEUKEMIA, 1968 Aug p 34
- Bozorth, Richard M MAGNETIC MATERIALS, 1955 Jan p 68
- Brachet, Jean THE LIVING CELL, 1961 Sept p 50
- Brady, Frank B ALL WEATHER AIRCRAFT LANDING, 1964 Mar p 25
- Brady, Joseph V ULCERS IN EXECUTIVE MONKEYS, 1958 Oct p 95 [425]
- Brady, Roscoe O HEREDITARY FAT METABOLISM DISEASES, 1973 Aug p 88
- Bragg, Sir Lawrence x RAY CRYSTALLOGRAPHY, 1968 July p 58 [325]
- Braham, Roscoe R, Jr LIFE OF A THUNDERSTORM, 1950 June p 48
- Braidwood, Robert J FROM CAVE TO VILLAGE, 1952 Oct p 62, THE AGRICULTURAL REVOLUTION, 1960 Sept p 130 [605]
- Braidwood, Robert J., and Halet Çambel AN EARLY FARMING VILLAGE IN TURKEY, 1970 Mar p 50

- Brainerd, Charles J THE ORIGINS OF NUMBER CONCEPTS, 1973 Mar p 101
- Branch, Daniel P, and James Marston Fitch
 PRIMITIYEARCHITECTURE AND CLIMATE, 1960
 Dec p 134
- Brandt, N B, and N I Ginzburg SUPERCONDUCTIVITY AT HIGH PRESSURE, 1971 Apr p 83
- Brandt, Werner Channeling in Crystals, 1968
 Mar p 90 positrons as a probe of the solid
 state, 1975 July p 34
- Braude, A I BACTERIAL ENDOTOXINS, 1964 Mar p 36
- Braun, Armin C Plant Cancer, 1952 June p 66, the reversal of tumor growth, 1965 Nov p 75
- Brazier, Mary A B THE ANALYSIS OF BRAIN WAVES, 1962 June p 142
- Breck, D W, and J V Smith MOLECULAR SIEVES, 1959 Jan p 85
- Brenner, S S METAL WHISKERS, 1960 July p 64
- Breslow, Ronald THE NATURE OF AROMATIC MOLECULES, 1972 Aug p 32
- Brett, J R THE SWIMMING ENERGETICS OF SALMON, 1965 Aug p 80 [1019]
- Bridgman, P W SYNTHETIC DIAMONDS, 1955 Nov p 42
- Briggs, Asa Technology and Economic DEVELOPMENT, 1963 Sept p 52
- Brill, Robert H ANCIENT GLASS, 1963 Nov p 120
- Brill, Winston J BIOLOGICAL NITROGEN FIXATION, 1977 Mar p 68 [922]
- Brindley, G S AFTERIMAGES, 1963 Oct p 84 [1089]
- Britten, Roy J, and David E Kohne REPEATED SEGMENTS OF DNA, 1970 Apr p 24 [1173]
- Broadbent, Donald E ATTENTION AND THE PERCEPTION OF SPEECH, 1962 Apr p 143 [467]
- Broers, A. N., and M. Hatzakis MICROCIRCUITS BY ELECTRON BEAM, 1972 Nov. p. 34
- Bronfenbrenner, Une THE ORIGINS OF ALIENATION, 1974 Aug p 53 [561]
- Bronowski, J THE CREATIVE PROCESS, 1958 Sept p 58, THE CLOCK PARADOX, 1963 Feb p 134
- Brooks, Harvey, and Raymond Bowers THE ASSESSMENT OF TECHNOLOGY, 1970 Feb p 13 [332]
- Broom, Robert The APE MEN, 1949 Nov p 20 [832]
- Brophy, J. H., H. W. Hayden and R. C. Gibson SUPERPLASTIC METALS, 1969 Mar. p. 28
- Brower, Lincoln Pierson Ecological CHEMISTRY, 1969 Feb p 22 [1133]
- Brown, Arthur A, and Horace C Levinson OPERATIONS RESEARCH, 1951 Mar p 15
- Brown, Donald D THE ISOLATION OF GENES, 1973 Aug p 20 [1278]
- Brown, Frank A, Jr BIOLOGICAL CLOCKS AND THE FIDDLER CRAB, 1954 Apr p 34
- Brown, Gordon S, and Donald P Campbell CONTROL SYSTEMS, 1952 Sept p 56
- Brown, Harold, and Gerald W Johnson NON MILITARY USES OF NUCLEAR EXPLOSIVES, 1958 Dec p 29
- Brown, Harrison the age of the solar system, 1957 Apr p 80 [102], human materials production as a process in the biosphere, 1970 Sept p 194 [1198]
- Brown, James Cooke Loglan, 1960 June p 53 Brown, James H the desert puppish, 1971 Nov p 104 [1236]
- Brown, John F., Jr INCLUSION COMPOUNDS, 1962
 July p. 82 [280]

- Brown, Lester R Human food production as a process in the biosphere, 1970 Sept p 160 [1196]
- Browne, William R, and John A Coffman CORONA CHEMISTRY, 1965 June p 90 Bruce-Chwatt L, L, and Corlos A. Alverd
- Bruce-Chwatt, L J, and Carlos A Alvarado
 MALARIA, 1962 May p 86
 Bruce-Mitford B. L. S.
- Bruce-Mitford, R. L. S. The Sutton hoo Shipburial, 1951 Apr. p. 24, the treasure of St. Ninians S., 1960 Nov. 154
- Brues, Charles T INSECTS IN AMBER, 1951 Nov p 56 [838]
- Brunauer, Stephen, and L E Copeland the CHEMISTRY OF CONCRETE, 1964 Apr p 80 Bruun, Anton F ANIMALS OF THE ABYSS, 1957 Nov p 50
- Bryan, W B, and J R Heirtzler the floor of the mid atlantic rift, 1975 Aug p 78 [918]
- Bryant, Howard C, and Nelson Jarmie THE GLORY, 1974 July p 60
- Bryant, Vaughn M, Jr, and Glenna Williams
 Dean THE COPROLITES OF MAN, 1975 Jan
 p 100 [687]
- Bryant, Lynwood the origin of the automobile engine, 1967 Mar p 102, RUDOLF DIESEL AND HIS RATIONAL ENGINE, 1969 Aug p 108
- Bryant, Peter J, Susan V Bryant and Vernon French BIOLOGICAL REGENERATION AND PATTERN FORMATION, 1977 July p 66 [1363]
- Bucher, Walter H THE CRUST OF THE EARTH, 1950 May p 32
- Buchhold, Theodore A APPLICATIONS OF SUPER CONDUCTIVITY, 1960 Mar p 74 [270]
- Buck, Elisabeth, and John Buck SYNCHRONOUS FIREFLIES, 1976 May p 74
- Buck, John, and Elisabeth Buck SYNCHRONOUS
- FIREFLIES, 1976 May p 74
 Buckhout, Robert EYEWITNESS TESTIMONY, 1974
- Dec p 23 [562]
 Bullard, Sir Edward The Detection of
- UNDERGROUND EXPLOSIONS, 1966 July p 19, THE ORIGIN OF THE OCEANS, 1969 Sept p 66 [880]
- Bullen, K E THE INTERIOR OF THE EARTH, 1955 Sept p 56 [804]
- Bump, T R ATHIRD GENERATION OF BREEDER REACTORS, 1967 May p 25
- Bumpus, F Merlin, Irvine H Page and Hans J Schwartz Angiotensin, 1959 Mar p 54 Bundy, Francis P Superhard Materials, 1974
- Aug p 62
 Bunker, Don L COMPUTER EXPERIMENTS IN CHEMISTRY, 1964 July p 100
- Bunnell, Sterling, Jr., Frank Barron and Murray E Jarvik The HALLUCINOGENIC DRUGS, 1964 Apr p 29 [483]
- Burbidge, E Margaret, and C Roger Lynds
 THE ABSORPTION LINES OF QUASI STELLAR
 OBJECTS, 1970 Dec p 22
- Burbidge, Geoffrey THE ORIGIN OF COSMIC RAYS 1966 Aug p 32
- Burbidge, Geoffrey, and E Margaret STELLAR POPULATIONS, 1958 Nov p 44 [203],
- Burbidge, Geoffrey, and E Margaret PECULIAR GALAXIES, 1961 Feb p 50, SUBDWARF STARS, 1961 June p 111
- Burbidge, Geoffrey, and Fred Hoyle Antimatter, 1958 Apr p 34, the problem of the quasi stellar objects, 1966 Dec p 40 13051
- Burgess, J Wesley SOCIAL SHIDERS, 1976 Mar p 100
- Burgus, Roger, and Roger Guillemin Till HORMONES OF THE HYPOTHALAMUS, 1972 Nop 24 [1260]

Burke, Derek C. THE STATUS OF INTERFERON, 1977 Apr. p. 42. [1356]

Burke, Kevin C., and J. Tuzo Wilson. HOT SPOTS ON THE EARTH'S SURFACE, 1976 Aug. p. 46.

Burnet, Sir Macfarlane, VIRUSES, 1951 May p. 43 [2]; THE INFLUENZA VIRUS, 1953 Apr. p. 27; HOW ANTIBODIES ARE MADE, 1954 Nov. p. 74; THE STRUCTURE OF THE INFLUENZA VIRUS, 1957 Feb. p. 37; the mechanism of immunity, 1961 Jan. p. 58 [78]; THE THYMUS GLAND, 1962 Nov. p. 50. [138]

Burwell, Robert L., Jr., and Vladimir Haensel. CATALYSIS, 1971 Dec. p. 46.

Busignies, Henri, COMMUNICATION CHANNELS, 1972 Sept. p. 98.

Bustad, Leo K. PIGS IN THE LABORATORY, 1966 June p. 94. [1045]

Buswell, Arthur M., and Worth H. Rodebush. WATER, 1956 Apr. p. 76. [262]

Builer, James N. PELAGIC TAR, 1975 June p. 90. Builer, Robert A. Curiosity in Monkeys, 1954 Feb. p. 70.

Butler, S. T. ATOMOSPHERIC TIDES, 1962 Dec. p. 48.

Butler, W. L. and Robert J. Downs. LIGHT AND PLANT DEVELOPMENT, 1960 Dec. p. 56. [107] Butterfield, Herbert. THE SCIENTIFIC REVOLUTION, 1960 Sept. p. 173.

Buzzati-Traverso, A. THE STATE OF GENETICS, 1951 Oct. p. 22.

Byard, Margaret M. POETIC RESPONSES TO THE COPERNICAN REVOLUTION, 1977 June p. 120. [367]

- Cadart, Jean. THE EDIBLE SNAIL, 1957 Aug.
- Cady, Walter G. CRYSTALS AND ELECTRICITY, 1949 Dec. p. 46.

Cahill, J. Laurence, Jr. the magnetosphere, 1965 Mar. p. 58.

Caims, John. THE BACTERIAL CHROMOSOME, 1966 Jan. p. 36 [1030]; THE CANCER PROBLEM, 1975 Nov. p. 64. [1330]

Caldwell, Roy L., and Hugh Dingle. STOMATOPODS, 1976 Jan. p. 80.

Calhoun, John B. POPULATION DENSITY AND SOCIAL PATHOLOGY, 1962 Feb. p. 139. [506] Callahan, J. J. THE CURVATURE OF SPACE IN A

FINITE UNIVERSE, 1976 Aug. p. 90. Calvin, Melvin, and Geoffrey Eglinton.

CHEMICAL FOSSILS, 1967 Jan. p. 32. [308] Cambel, Halet, and Robert J. Braidwood. AN EARLY FARMING VILLAGE IN TURKEY, 1970 Mar. p. 50.

Cameron, A. G. W. THE ORIGIN AND EVOLUTION OF THE SOLAR SYSTEM, 1975 Sept. p. 32.

Cameron, I. R. METEORITES AND COSMIC RADIATION, 1973 July p. 64. Cambi, Jeffrey M. FLIGHT ORIENTATION IN

LOCUSTS, 1971 Aug. p. 74. [1231] Campbell, Allan M. How viruses insert their DNA INTO THE DNA OF THE HOST CELL, 1976 Dec. p. 102. [1347]

Campbell, Angus, Gerald Gurin and Warren E. Miller, TELEVISION AND THE ELECTION, 1953 May p. 46; THE ELECTORAL SWITCH OF 1952, 1954 May p. 31.

Campbell, Arthur A., Ronald F. Freedman and Pascal K. Whelpton, FAMILY PLANNING IN THE Us. 1959 Apr. p. 50.

Campbell, Donald P., and Gordon S. Brown. CONTROL SYSTEMS, 1952 Sept. p. 56.

Campbell, Fergus W., and Lamberto Maffei. CONTRAST AND SPATIAL FREQUENCY, 1974 Nov. p. 106. [1308]

Campbell, H. A., Lloyd J. Old and Edward A. Boyse. L-ASPARAGINE AND LEUKEMIA, 1968 Aug. p. 34.

Campbell, John P. vertical-takeoff aircraft, 1960 Aug. p. 41.

Cann, J. R., J. E. Dixon and Colin Renfrew. OBSIDIAN AND THE ORIGINS OF TRADE, 1968 Mar. p. 38.

Cantril, Hadley. PSYCHOLOGY, 1950 Sept. p. 79; A STUDY OF ASPIRATIONS, 1963 Feb. p. 41.

Capaldi, Roderick A. A DYNAMIC MODEL OF CELL MEMBRANES, 1974 Mar. p. 26. [1292]

Caplan, Nathan S., and Jeffery M. Paige. A STUDY OF GHETTO RIOTERS, 1968 Aug. p. 15.

Capra, J. Donald, and Allen B. Edmundson. THE ANTIBODY COMBINING SITE, 1977 Jan. p. 50. [1350]

Carey, Francis G. FISHES WITH WARM BODIES, 1973 Feb. p. 36. [1266]

Carey, Niall, and P. C. Constantinides, THE ALARM REACTION, 1949 Mar. p. 20. [4]

Carlson, Frederic R., Jr., and Albert L. Zobrist. AN ADVICE-TAKING CHESS COMPUTER, 1973 June p. 92.

Carnap, Rudolf. what is probability?, 1953 Sept. p. 128.

Cast, Archie. The Navigation of the green TURTLE, 1965 May p. 78. [1010]

Carr, Harry Jay, Henry W. Ryder and Paul Herget. FUTURE PERFORMANCE IN FOOTRACING. 1976 June p. 109.

Carr, Michael H. THE VOLCANOES OF MARS, 1976 Jan. p. 32.

Carrington, John F. THE TALKING DRUMS OF AFRICA, 1971 Dec. p. 90.

Carter, Anne P. THE ECONOMICS OF TECHNOLOGICAL CHANGE, 1966 Apr. p. 25.

Carter, Barry E. NUCLEAR STRATEGY AND NUCLEAR WEAPONS, 1974 May p. 20.

Cartledge, G. H. studies in corrosion, 1956 May p. 35.

Casey, Richard G., and George Nagy. ADVANCES IN PATTERN RECOGNITION, 1971 Apr. p. 56. Casimir, H. B. G. BROKEN ENGLISH, 1956 Mar.

p. 96. Casson, Lionel. TRADE IN THE ANCIENT WORLD, 1954 Nov. p. 98.

Cattell, Raymond B. THE NATURE AND MEASUREMENT OF ANXIETY, 1963 Mar. p. 96. [475]

Cavalli-Sforza, Luigi Luca. "GENETIC DRIFT" IN an italian population, 1969 Aug. p. 30; the GENETICS OF HUMAN POPULATIONS, 1974 Sept. p. 80.

Cavalli-Sforza, Luigi Luca, and Walter F. Bodmer. INTELLIGENCE AND RACE, 1970 Oct. p. 19. [1199]

Cavers, David F. THE ATOMIC ENERGY ACT OF 1954, 1954 Nov. p. 31.

Cerami, Anthony, and Charles M. Peterson. CYANATE AND SICKLE-CELL DISEASE, 1975 Apr. p. 44, [1319]

Ceraso, John. THE INTERFERENCE THEORY OF FORGETTING, 1967 Oct. p. 117. [509]

Cerny, Joseph, and Arthur M. Poskanzer. EXOTIC LIGHT NUCLEI, 1978 June p. 60. [3010] Chadwick, John. LIFE IN MYCENAEAN GREECE, 1972 Oct. p. 36, [681]

Chaitin, Gregory J. RANDOMNESS AND MATHEMATICAL PROOF, 1975 May p. 47. Chalmers, Bruce. How WATER FREEZES, 1959 Feb. p. 114. The photovoltaic generation of electricity, 1976 Oct. p. 34.

Champagnat, Alfred. PROTEIN FROM PETROLEUM, 1965 Oct. p. 13. [1020]

Chanaud, Robert C. AERODYNAMIC WHISTLES, 1970 Jan. p. 40.

Chang, Hsien-Wu, and Gilbert W. King. MACHINE TRANSLATION OF CHINESE, 1963 June p. 124.

Changeux, Jean-Pierre. THE CONTROL OF BIOCHEMICAL REACTIONS, 1965 Apr. p. 36.

Chapanis, Alphonse. COLOR BLINDNESS, 1951 Mar. d. 48; psychology and the instrument PANEL, 1953 Apr. p. 74 [496]; INTERACTIVE HUMAN COMMUNICATION, 1975 Mar. p. 36.

Chapman, Carleton B., and Jere H. Mitchell. THE PHYSIOLOGY OF EXERCISE, 1965 May p. 88.

Chapman, Clark R. THE NATURE OF ASTEROIDS. 1975 Jan. p. 24.

Chapman, David S., and Henry N. Pollack. THE FLOW OF HEAT FROM THE EARTH'S INTERIOR, 1977 Aug. p. 60. [927]

Chapman, Sydney. TIDES IN THE ATMOSPHERE, 1954 May p. 36; the earth in the sun's ATMOSPHERE, 1959 Oct. p. 64.

Charles, Philip A., and J. Leonard Culhane. xrays from supernova remnants, 1975 Dec. p. 38.

Charles, R. J. the nature of glasses, 1967 Sept. p. 126.

Charlesby, A. ionizing radiation and organic CHEMISTRY, 1959 Sept. p. 180.

Charnes, Abraham, and William W. Cooper. LINEAR PROGRAMMING, 1954 Aug. p. 21.

Charpie, Robert A. THE GENEVA CONFERENCE, 1955 Oct. p. 27; GENEVA: REACTORS, 1955 Oct. p. 56.

Charters, A. C. HIGH-SPEED IMPACT, 1960 Oct. p. 128

Chatfield, Paul O., and Charles P. Lyman. HIBERNATION, 1950 Dec. p. 18.

Chen, Francis F. THE LEAKAGE PROBLEM IN FUSION REACTORS, 1967 July p. 76.

Cheng, K.-J., J. W. Costerton and G. G. Geesey HOW BACTERIA STICK 1978 Jan. p. 86. [1379] Chess, Stella, Alexander Thomas and Herbert

G. Birch. the origin of personality, 1970 Aug. p. 102, [529]

Chew, Geoffrey F., Murray Gell-Mann and Arthur H. Rosenfeld, STRONGLY INTERACTING PARTICLES, 1964 Feb. p. 74. [296] Chigier, Norman A. vortexes in aircraft

WAKES, 1974 Mar. p. 76. Child III, Charles G. SURGICAL INTERVENTION,

1973 Sept. p. 90. Chinitz, Benjamin, NEW YORK: A METROPOLITAN

REGION, 1965 Sept. p. 134. Chinitz, Wallace. ROTARY ENGINES, 1969 Feb.

p. 90. Chipman, Robert A. DE FOREST AND THE TRIODE

DETECTOR, 1965 Mar. p. 92. Chisholm, Brock. SOCIAL MEDICINE, 1949 Apr. p. 11.

Chisolm, J. Julian, Jr. LEAD POISONING, 1971

Feb. p. 15. [1211] Christianson, John, THE CELESTIAL PALACE OF

TYCHO BRAHE, 1961 Feb. p. 118.

Christie, Stanley G., R. F. Mallina, Theodore R. Miller and Philip Cooper, surgical stapling, 1962 Oct. p. 48. Claassen, Howard H., Henry Selig and John G.

Maim, the Chemistry of the noble gases, 1964 May p. 66.

Borhegyi, Stephan F UNDERWATER ARCHAEOLOGY IN THE MAYA HIGHLANDS, 1959 Mar p 100

Bormann, F Herbert, and Gene E Likens THE NUTRIENT CYCLES OF AN ECOSYSTEM, 1970 Oct p 92 [1202]

Bormann, F Herbert, James R Gosz, Richard T Holmes and Gene E Likens THE FLOW OF ENERGY IN A FOREST ECOSYSTEM, 1978 Mar p 92 [1384]

Born, Max Physics, 1950 Sept p 28 Bornstein, Paul, and Russell Ross ELASTIC FIBERS IN THE BODY, 1971 June p 44 [1225]

Bose, Nirmal Kumar CALCUTTA A PREMATURE METROPOLIS, 1965 Sept p 90

Bostick, Winston H PLASMOIDS, 1957 Oct p 87

Boston Psychopathic Hospital, Six Staff Members of EXPERIMENTAL PSYCHOSES, 1955 June p 34

Botelho, Stella Y TEARS AND THE LACRIMAL GLAND, 1964 Oct p 78

Bovarnick, Marianna R RICKETTSIAE, 1955 Jan

Bower, T G R THE VISUAL WORLD OF INFANTS, 1966 Dec p 80 [502], THE OBJECT IN THE WORLD OF THE INFANT, 1971 Oct p 30 [539], REPETITIVE PROCESSES IN CHILD DEVELOPMENT, 1976 Nov p 38 [572]

Bowers, Raymond Plasmas in solids, 1963 Nov p 46, a solid state source of MICROWAVES, 1966 Aug p 22

Bowers, Raymond, and Harvey Brooks THE ASSESSMENT OF TECHNOLOGY, 1970 Feb p 13 [332]

Bowers, Raymond, and Jeffrey Frey TECHNOLOGY ASSESSMENT AND MICROWAVE DIODES, 1972 Feb p 13

Boycott, Brian B LEARNING IN THE OCTOPUS, 1965 Mar p 42 [1006]

Boyd, William C Rh and the races of Man, 1951 Nov p 22

Boyden, Alan A THE BLOOD RELATIONSHIPS OF ANIMALS, 1951 July p 59

Boyd Orr, Lord John the food problem, 1950 Aug p 11

Boyer, Carl B THE INVENTION OF ANALYTIC GEOMETRY, 1949 Jan p 40, ARISTOTLES PHYSICS, 1950 May p 48

Boyko, Hugo salt water agriculture, 1967 Mar p 89

Boyle, W S LIGHT WAVE COMMUNICATIONS, 1977 Aug p 40 [373]

Boyse, Edward A, Lloyd J Old and H A Campbell L ASPARAGINE AND LEUKEMIA, 1968 Aug p 34

Bozorth, Richard M MAGNETIC MATERIALS, 1955 Jan p 68

Brachet, Jean THE LIVING CELL, 1961 Sept p 50 [90]

Brady, Frank B ALL WEATHER AIRCRAFT LANDING, 1964 Mar p 25

Brady, Joseph V ULCERS IN EXECUTIVE MONKEYS, 1958 Oct p 95 [425]

Brady, Roscoe O HEREDITARY FAT METABOLISM DISEASES, 1973 Aug p 88

Bragg, Sir Lawrence x Ray Crystallography, 1968 July p 58 [325]

Braham, Roscoe R, Jr LIFE OF A THUNDERSTORM, 1950 June p 48

Braidwood, Robert J FROM CAVE TO VILLAGE, 1952 Oct p 62, THE AGRICULTURAL REVOLUTION, 1960 Sept p 130 [605]

Braidwood, Robert J, and Halet Çambel AN EARLY FARMING VILLAGE IN TURKEY, 1970

Mar p 50

Brainerd, Charles J THE ORIGINS OF NUMBER CONCEPTS, 1973 Mar p 101

Branch, Daniel P, and James Marston Fitch PRIMITIVE ARCHITECTURE AND CLIMATE, 1960 Dec p 134

Brandt, N B, and N I Ginzburg SUPERCONDUCTIVITY AT HIGH PRESSURE, 1971

Brandt, Werner Channeling in Crystals, 1968 Mar p 90 Positrons as a probe of the solid STATE, 1975 July p 34

Braude, A I BACTERIAL ENDOTOXINS, 1964 Mar p 36

Braun, Armin C PLANT CANCER, 1952 June p 66, the reversal of tumor growth, 1965 Nov p 75

Brazier, Mary A B the analysis of brain waves, 1962 June p 142

Breck, D W, and J V Smith MOLECULAR SIEVES, 1959 Jan p 85

Brenner, S S METAL WHISKERS, 1960 July p 64

Breslow, Ronald THE NATURE OF AROMATIC MOLECULES, 1972 Aug p 32

Brett, J R THE SWIMMING ENERGETICS OF SALMON, 1965 Aug p 80 [1019] Bridgman, P W SYNTHETIC DIAMONDS, 1955 Nov p 42

Briggs, Asa Technology and Economic DEVELOPMENT, 1963 Sept p 52 Brill, Robert H ANCIENT GLASS, 1963 Nov

Brill, Winston J BIOLOGICAL NITROGEN FIXATION, 1977 Mar p 68 [922] Brindley, G S AFTERIMAGES, 1963 Oct p 84

[1089] Britten, Roy J, and David E Kohne REPEATED

SEGMENTS OF DNA, 1970 Apr p 24 [1173] Broadbent, Donald E ATTENTION AND THE

PERCEPTION OF SPEECH, 1962 Apr p 143 [467] Broers, A N, and M Hatzakis MICROCIRCUITS BY ELECTRON BEAM, 1972 Nov p 34

Bronfenbrenner, Urie THE ORIGINS OF ALIENATION, 1974 Aug p 53 [561]

Bronowski, J THE CREATIVE PROCESS, 1958 Sept p 58, THE CLOCK PARADOX, 1963 Feb p 134

Brooks, Harvey, and Raymond Bowers THE ASSESSMENT OF TECHNOLOGY, 1970 Feb p 13 [332]

Broom, Robert THE APE MEN, 1949 Nov p 20 [832]

Brophy, J H, H W Hayden and R C Gibson SUPERPLASTIC METALS, 1969 Mar p 28

Brower, Lincoln Pierson Ecological CHEMISTRY, 1969 Feb p 22 [1133]

Brown, Arthur A, and Horace C Levinson OPERATIONS RESEARCH, 1951 Mar p 15

Brown, Donald D THE ISOLATION OF GENES, 1973 Aug p 20 [1278]

Brown, Frank A, Jr BIOLOGICAL CLOCKS AND THE FIDDLER CRAB, 1954 Apr p 34 Brown, Gordon S, and Donald P Campbell

CONTROL SYSTEMS, 1952 Sept p 56 Brown, Harold, and Gerald W Johnson NON MILITARY USES OF NUCLEAR EXPLOSIVES 1958

Dec p 29 Brown, Harrison the age of the solar system, 1957 Apr p 80 [102], HUMAN MATERIALS PRODUCTION AS A PROCESS IN THE BIOSPHERE,

1970 Sept p 194 [1198] Brown, James Cooke LOGLAN, 1960 June p 53 Brown, James H the desert puppish, 1971 Nov p 104 [1236]

Brown, John F. Jr INCLUSION COMPOUNDS 1962 July p 82 [280]

Brown, Lester R HUMAN FOOD PRODUCTION ASA PROCESS IN THE BIOSPHERE, 1970 Sept p 160 [1196]

Browne, Wilnam R, and John A Coffman CORONA CHEMISTRY, 1965 June p 90 Bruce-Chwatt, L J, and Carlos A Alvarado MALARIA, 1962 May p 86

Bruce-Mitford, R. L S THE SUTTON HOO SHIPBURIAL, 1951 Apr p 24, THE TREASURE OF ST NINIANS'S, 1960 Nov 154

Brues, Charles T INSECTS IN AMBER, 1951 Nov p 56 [838]

Brunauer, Stephen, and L E Copeland THE CHEMISTRY OF CONCRETE, 1964 Apr p 80 Bruun, Anton F ANIMALS OF THE ABYSS, 1957 Nov p 50

Bryan, W B, and J R Heirtzler THE FLOOR OF THE MID ATLANTIC RIFT, 1975 Aug p 78 [918] Bryant, Howard C, and Nelson Jarmie THE GLORY, 1974 July p 60

Bryant, Vaughn M, Jr, and Glenna Williams Dean THE COPROLITES OF MAN, 1975 Jan p 100 [687]

Bryant, Lynwood THE ORIGIN OF THE AUTOMOBILE ENGINE, 1967 Mar p 102, RUDOLF DIESEL AND HIS RATIONAL ENGINE, 1969 Aug p 108

Bryant, Peter J, Susan V Bryant and Vernon French BIOLOGICAL REGENERATION AND PATTERN FORMATION, 1977 July p 66 [1363]

Bucher, Walter H THE CRUST OF THE EARTH, 1950 May p 32

Buchhold, Theodore A APPLICATIONS OF SUPER CONDUCTIVITY, 1960 Mar p 74 [270]

Buck, Elisabeth, and John Buck synchronous FIREFLIES, 1976 May p 74

Buck, John, and Elisabeth Buck SYNCHRONOUS FIREFLIES, 1976 May p 74

Buckhout, Robert EYEWITNESS TESTIMONY, 1974 Dec p 23 [562]

Bullard, Sir Edward THE DETECTION OF underground explosions, 1966 July p 19, THE ORIGIN OF THE OCEANS, 1969 Sept p 66 [880]

Bullen, K E THE INTERIOR OF THE EARTH, 1955 Sept p 56 [804]

Bump, T R ATHIRD GENERATION OF BREEDER REACTORS, 1967 May p 25

Bumpus, F Merlin, Irvine H Page and Hans J Schwartz angiotensin, 1959 Mar p 54 Bundy, Francis P superhard materials, 1974 Aug p 62

Bunker, Don L COMPUTER EXPERIMENTS IN CHEMISTRY, 1964 July p 100

Bunnell, Sterling, Jr, Frank Barron and Murray E Jarvik the Hallucinogenic drugs 1964 Apr p 29 [483]

Burbidge, E Margaret, and C Roger Lynds THE ABSORPTION LINES OF QUASI STELLAR овјестѕ, 1970 Dec р 22

Burbidge, Geoffrey THE ORIGIN OF COSMIC RAYS, 1966 Aug p 32

Burbidge, Geoffrey, and E Margaret STELLAR POPULATIONS, 1958 Nov p 44 [203].

Burbidge, Geoffrey, and E Margaret PECULIAR GALAXIES, 1961 Feb p 50, SUBDWARF STARS, 1961 June p 111

Burbidge, Geoffrey and Fred Hoyle ANTIMATTER, 1958 Apr p 34 THE PROBLEM OF THE QUASI STELLAR OBJECTS 1966 Dec p 40 [305]

Burgess, J Wesley SOCIAL SPIDERS 1976 Mar p 100

Burgus, Roger and Roger Guillemin Till HORMONES OF THE HYPOTHALAMI . 1972 NOV p 24 [1260]

Crowle, Alfred J. DELAYED HYPERSENSITIVITY, 1960 Apr. p. 129.

Cruikshank, Dale P., and David Morrison. THE GALILEAN SATELLITES OF JUPITER, 1976 May p. 108.

Cruxent, José M., and Irving Rouse. EARLY MAN IN THE WEST INDIES, 1969 Nov. p. 42. [652] Csapo, Arpad. Progesterone, 1958 Apr. p. 40. 163]

Cuff, Frank B., Jr., and L. McD. Schetky.
DISLOCATIONS IN METALS, 1955 July p. 80. [204]
Culhane, J. Leonard, and Philip A. Charles. xRAYS FROM SUPERNOVA REMNANTS, 1975 Dec.
p. 38.

Cullity, B. D. diffusion in metals, 1957 May p. 103; aligned crystals in metals, 1959 Apr. p. 125.

Cunningham, Bruce A. The STRUCTURE AND FUNCTION OF HISTOCOMPATIBILITY. ANTIGENS, 1977 Oct. p. 96. [1369]

Cunningham, Burris B. ULTRAMICROCHEMISTRY, 1954 Feb. p. 76.

Curtis, Byrd. C., and David R. Johnston. HYBRID WHEAT, 1969 May p. 21.

D

Dahlberg, Gunnar. AN EXPLANATION OF TWINS, 1951 Jan. p. 48.

Dales, George F. THE DECLINE OF THE HARAPPANS, 1966 May p. 92.

Dairymple, G. Brent, Allan Cox and Richard R.Doell. REVERSALS OF THE EARTH'S MAGNETIC FIELD, 1967 Feb. p. 44.

Dalton, A. G. THE PRACTICE OF QUALITY CONTROL, 1953 Mar. p. 29.

Daly, Patricia, and Dexter Perkins, Jr. A HUNTERS' VILLAGE IN NEOLITHIC TURKEY, 1968 Nov. p. 96.

Daly, Reginald A. GEOLOGY, 1950 Sept. p. 36. Daniel, Glyn E. the idea of man's antiquity, 1959 Nov. p. 167.

Danielli, J. F. on transplanting nuclei, 1952 Apr. p. 58.

Daniels, Farrington. HIGH TEMPERATURES CHEMISTRY, 1954 Sept. p. 109.

Daniels, Farrington, Jr., Jan C. van der Leun and Brian E. Johnson. SUNBURN, 1968 July p. 38.

Darling, F. Fraser, wildlife Husbandry in Africa, 1960 Nov. p. 123.

Darlington, C. D. THE ORIGIN OF DARWINISM, 1959 May p. 60.

Darragh, P. J., A. J. Gaskin and J. V. Sanders.
OPALS, 1976 Apr. p. 84.

Dairow, Karl K. Davisson and Germer, 1948 May p. 50; the quantum theory, 1952 Mar. p. 47. [205]

Dash, J. G. TWO-DIMENSIONAL MATTER, 1973 May p. 30.

Dash, W. C. and A. G. Tweet. OBSERVING
DISLOCATIONS IN CRYSTALS, 1961 Oct. p. 107.
Davenport, Horace W. WHY THE STOMACH DOES
NOT DIGEST ITSELF, 1972 Jan. p. 86. [1240]

Davenport, William. RLD-FEATHER MONEY, 1962 Mar. p. 94.

David, Edward E., Jr lars for computers, 1955 Feb. p. 92; the reproduction of sound, 1961 Aug. p. 72.

Davidson, Enc H. HORMONES AND GENES, 1965 June p. 36. [1013]

Davies, R. W., and R. Amann, SCILNCE POLICY IN

THE USS R., 1969 June p. 19.
Davis, Harry M. RADIO WAVES AND MATTER,
1948 Sept. p. 16; MATHEMATICAL MACHINES,

1949 Apr. p. 28; LOW TEMPERATURE PHYSICS, 1949 June p. 30. [206]

Davis, Kingsley. Population, 1963 Sept. p. 62 [645]; The urbanization of the human population, 1965 Sept. p. 40 [659]; The migrations of human populations, 1974 Sept. p. 92.

Davis, Martin, and Reuben Hersh.

NONSTANDARD ANALYSIS, 1972 June p. 78;

HILBERT'S 10TH PROBLEM, 1973 Nov. p. 84.

Davis, Michael M. NATIONAL HEALTH INSURANCE, 1949 June p. 11.

Davis, Philip J. Number, 1964 Sept. p. 50. Davis, Stanley N., and Sullivan S. Marsden, Jr. GEOLOGICAL SUBSIDENCE, 1967 June p. 93.

Davis, Stanley W. STRESS IN COMBAT, 1956 Mar. p. 31.

Dawkins, Michael J. R., and David Hull. THE PRODUCTION OF HEAT BY FAT, 1965 Aug. p. 62.

Dawson, T. J. KANGAROOS, 1977 Aug. p. 78. [1366]

Dayhoff, Margaret Oakley. COMPUTER ANALYSIS OF PROTEIN EVOLUTION, 1969 July p. 86. [1148] De Bakey, Michael E., and Leonard Engel.

BLOOD-VESSEL SURGERY, 1961 Apr. p. 88. de Bruyne, Norman A. The Action of

ADHESIVES, 1962 Apr. p. 114. de Camp, L. Sprague. The end of the monkey

de Camp, L. Sprague. THE END OF THE MONKES WAR, 1969 Feb. p. 15.

de Duve, Christian. THE LYSOSOME, 1963 May p. 64. [156]

de Heinzelin, Jean. ISHANGO, 1962 June p. 105. de Lumley, Henry. A PALEOLITHIC CAMP AT NICE, 1969 May p. 42.

de Nevers, Noel. The Secondary Recovery of Petroleum, 1965 July p. 34; Tar Sands and Oil Shales, 1966 Feb. p. 21; Liquid Natural Gas, 1967 Oci. p. 30; Enforcing the Clean Air act of 1970, 1973 June p. 14.

de Santillana, Giorgio. Greek astronomy, 1949 Apr. p. 44; alessandro volta, 1965 Jan. p. 82.

de Vaucouleurs, Gérard. Mars 1953 May p. 65; THE SUPERGALAXY, 1954 July p. 30; THE CLOUDS OF MAGELLAN, 1956 Apr. p. 52.

Dean, Geoffrey. Pursuit of a disease, 1957 Mar. p. 133; THE MULTIPLE SCLEROSIS PROBLEM, 1970 July p. 40.

DeBenedetti, Sergio. Mesonic atoms, 1956 Oct. p. 93 [207]; THE MOSSBAUER EFFECT, 1960 Apr. p. 72. [271]

DeBenedetti, Sergio, and H. C. Corben. THE ULTIMATE ATOM, 1954 Dec. p. 88.

Debye, Peter J. W. HOW GIANT MOLECULES ARE MEASURED, 1957 Sept. p. 90.

Deering, R. A. ULTRAVIOLET RADIATION AND NUCLEIC ACID, 1962 Dec. p. 135. [143]

Deevey, Edward S., Jr. Living records of the ice age, 1949 May p. 48 [834]; the probability of death, 1950 Apr. p. 58; life in the depths of a pond, 1951 Oct. p. 68; radiocarbon dating, 1952 Feb. p. 24 [811]; the end of the moas, 1954 Feb. p. 84; the human crop, 1956 Apr. p. 105; bogs, 1958 Oct. p. 114 [840]; the human population, 1960 Sept. p. 194 [608]; mineral cycles, 1970 Sept. p. 148. [1195]

Degens, Egon T., and David A. Ross, THE RED SEA HOT BRINES, 1970 Apr. p. 32.

Deitchman, Seymour, and Alfred Blumstein. AIR-TRAFFIC CONTROL, 1960 Dec. p. 47.

Delbrück, Max, and Mary Bruce Delbrück.

BACTERIAL VIRUSES AND SEX, 1948 Nov. p. 46.
Delbrück, Max, and Roderick K. Clayton.

PURPLE BACTERIA, 1951 Nov. p. 68.

DeLong, Howard, UNSOLVED PROBLEMS IN ARITHMETIC, 1971 Mar. p. 50.

Delvaille, John P., and Herbert W. Schnopper. THE X-RAY SKY, 1972 July p. 26.

Delwiche, C. C. THE NITROGEN CYCLE, 1970 Sept. p. 136. [1194]

Demeny, Paul. THE POPULATIONS OF THE UNDERDEVELOPED COUNTRIES, 1974 Sept. p. 148.

Denenberg, Victor H. EARLY EXPERIENCE AND EMOTIONAL DEVELOPMENT, 1963 June p. 138. [478]

Denevan, William M., and James J. Parsons. PRE-COLUMBIAN RIDGED FIELDS, 1967 July p. 92.

Denison, William C. LIFE IN TALL TREES, 1973 June p. 74. [1274]

Denton, Eric. the Buoyancy of Marine Animals, 1960 July p. 118; reflectors in Fishes, 1971 Jan. p. 64. [1209]

Denton, George H., and Stephen C. Porter. NEOGLACIATION, 1970 June p. 100.

Deregowski, Jan B. pictorial perception and culture, 1972 Nov. p. 82. [551]

Derjaguin, Boris V. The Force between molecules, 1960 July p. 47; superdense water, 1970 Nov. p. 52.

Derjaguin, Boris V., and D. B. Fedoseev. THE SYNTHESIS OF DIAMOND AT LOW PRESSURE, 1975 Nov. p. 102.

Deutsch, Armin J. The Sun, 1948 Nov. p. 26; The abundance of the elements, 1950 Oct. p. 14.

Deutsch, Diana. Musical Illusions, 1975 Oct. p. 92. [566]

Devey, Gilbert B., and Peter N. T. Wells ULTRASOUND IN MEDICAL DIAGNOSIS, 1978 May p. 98. [1389]

DeVore, Irven, and S. L. Washburn. The SOCIAL LIFE OF BABOONS, 1961 June p. 62. [614] Dewey, John F. PLATE TECTONICS, 1972 May

Dewey, John F. Plate Tectonics, 1972 May p. 56. [900]

Deyts, Simone-Antoinette. THE SACRED SOURCE OF THE SEINE, 1971 July p. 65. Diamond, Marian Cleeves, Mark R. Rosenzweig

Diamond, Marian Cleeves, Mark R. Rosenzweig and Edward L. Bennett. Brain Changes in RESPONSE TO EXPERIENCE, 1972 Feb. p. 22. [541]

Dibner, Bern. MOVING THE OBELISK, 1951 June p. 58.

DiCara, Leo V. Learning in the autonomic nervous system, 1970 Jan. p. 30. [525] Dicke, R. H. the eotvos experiment, 1961 Dec. p. 84.

Dickerson, Richard E. THE STRUCTURE AND HISTORY OF AN ANCIENT PROTEIN, 1972 Apr. p. 58. [1245]

Dickinson, Dale F. COSMIC MASERS, 1978 June p. 90. [3011]

Dickman, Robert L. BOK GLOBULES, 1977 June p. 66. [366]

Dietz, Robert S. The Pacific Floor, 1952 Apr. p. 19; astroblemes, 1961 Aug. p. 50 [801]; The Sea's Deep Scattering Layers, 1962 Aug. p. 44 [866]; GEOSYNCLINES, MOUNTAINS AND CONTINENT-BUILDING, 1972 Mar. p. 30. [899] Dietz, Robert S., and John C. Holden, the

BREAKUP OF PANGAEA, 1970 Oct. p. 30. [892] Dietz, Robert S., Russell V. Lewis and Andreas B. Rechnitzer. The BATHYSCAPH, 1958 Apr.

B. Rechnitzer. The BATHYSCAPH, 1958 Apr. p. 27.
Dilger, William C. The Behavior of Lovebirds,

1962 Jan. p. 88

Dingle Herbert convenees

Dingle, Herbert, COSMOLOGY AND SCIENCE, 1956 Sept. p. 224.

Dingle, Hugh, and Roy L. Caldwell. STOMATOPODS, 1976 Jan. p. 80.

Dingle, John H. THEILLS OF MAN, 1973 Sept. p. 76.

- Clague, Ewan. LABOR FORCE, 1951 Sept. p. 36. Clark, Brian F. C., and Kjeld A. Marcker. How PROTEINS START, 1968 Jan. p. 36. [1092]
- Clark, David H., and F. Richard Stephenson. HISTORICAL SUPERNOVAS, 1976 June p. 100.
- Clark, George W. x-ray Stars in Globular Clusters, 1977 Oct. p. 42. [385] Clark, George W., and William I. Kraushage
- Clark, George W., and William L. Kraushaar. GAMMA RAY ASTRONOMY, 1962 May p. 52.
- Clark, Grahame. A STONE AGE HUNTERS' CAMP, 1952 May p. 20.
- Clark, J. Desmond. EARLY MAN IN AFRICA, 1958 July p. 76.
- Clark, John R. THERMAL POLLUTION AND AQUATIC LIFE, 1969 Mar. p. 18. [1135]
- Clark, Karl A. THE ATHABASKA TAR SANDS, 1949 May p. 52.
- Clarke, Bryan. THE CAUSES OF BIOLOGICAL DIVERSITY, 1975 Aug. p. 50. [1326]
- Clarke, C. A. THE PREVENTION OF "RHESUS" BABIES, 1968 Nov. p. 46. [1126]
- Clarke, R. W. LOCATING RADIO SOURCES WITH THE MOON, 1966 June p. 30.
- Classe, André. THE WHISTLED LANGUAGE OF LA GOMERA, 1957 Apr. p. 111.
- Clauser, Henry R. ADVANCED COMPOSITE MATERIALS, 1973 July p. 36.
- Clayton, Roderick K., and Max Delbrück. PURPLE BACTERIA, 1951 Nov. p. 68.
- Clements, John A. Surface tension in the Lungs, 1962 Dec. p. 120.
- Clevenger, Sarah. LOWER PIGMENTS, 1964 June p. 84. [186]
- Clever, Ulrich, and Wolfgang Beermann. CHROMOSOME PUFFS, 1964 Apr. p. 50. [180]
- Cline, David B., Alfred K. Mann and Carlo Rubbia. The Detection of Neutral Weak CURRENTS, 1974 Dec. p. 108; The SEARCH FOR NEW FAMILIES OF ELEMENTARY PARTICLES, 1976 Jan. p. 44.
- Cline, David B., and Vernon D. Barger. High-ENERGY SCATTERING, 1967 Dec. p. 76.
- Cloud, Preston, and Aharon Gibor. THE OXYGEN CYCLE, 1970 Sept. p. 110. [1192]
- Clowes, Royston C. THE MOLECULE OF INFECTIOUS DRUG RESISTANCE, 1973 Apr. p. 18. [1269]
- Coale, Ansley J. THE HISTORY OF THE HUMAN POPULATION, 1974 Sept. p. 40.
- Cobb, William C., and John S. Niederhauser. THE LATE BLIGHT OF POTATOES, 1959 May p. 100. [109]
- Cochran, Neal P. OIL AND GAS FROM COAL, 1976 May p. 24.
- Cockrill, W. Ross. THE WATER BUFFALO, 1967 Dec. p. 118. [1088]
- Coe, Michael D. THE CHINAMPAS OF MEXICO, 1964 July p. 90. [648]
- Coffman, John A., and William R. Browne. CORONA CHEMISTRY, 1965 June p. 90.
- Cohen, Bernard L. THE DISPOSAL OF RADIOACTIVE WASTES FROM FISSION REACTORS, 1977 June p. 21. [364]
- Cohen, Carolyn. THE PROTEIN SWITCH OF MUSCLE CONTRACTION, 1975 Nov. p. 36. [1329]
- Cohen, I. Bernard. In Defense of Benjamin Franklin, 1948 Aug. p. 36; Galileo, 1949 Aug. p. 40; Maxwell's Poetry, 1952 Mar. p. 62; Pioneers in the Theory of Heat, 1954 Sept. p. 60; an Interview with einstein, 1955 July p. 68; Isaac Newton, 1955 Dec. p. 73; Stephen Hales, 1976 May p. 98.
- Cohen, John. Subjective probability, 1957 Nov. p. 128 [427]; Psychological time, 1964 Nov. p. 116.
- Cohen, Paul J., and Reuben Hersh. NON-CANTORIAN SET THEORY, 1967 Dec. p. 104.

- Cohen, Stanley N. THE MANIPULATION OF GENES 1975 July p. 24. [1324]
- Colbert, Edwin H. THE ANCESTORS OF MAMMALS, 1949 Mar. p. 40.
- Cole, David É. THE WANKEL ENGINE, 1972 Aug. p. 14.
- Cole, Fay-Cooper. A WITNESS AT THE SCOPES TRIAL, 1959 Jan. p. 120.
- Cole, Jonathan R., Stephen Cole and Leonard C. Rubin. PEER REVIEW AND THE SUPPORT OF SCIENCE, 1977 Oct. p. 34. [698]
- Cole, LaMont C. THE ECOSPHERE, 1958 Apr. p. 83. [144]
- Cole, Stephen, Leonard C. Rubin and Jonathan R. Cole. PEER REVIEW AND THE SUPPORT OF SCIENCE, 1977 Oct. p. 34. [698]
- Collier, H. O. J. Kinins, 1962 Aug. p. 111 [132]; ASPIRIN, 1963 Nov. p. 96. [169]
- Collier, John and Mary. AN EXPERIMENT IN APPLIED ANTHROPOLOGY, 1957 Jan. p. 37.
- Collins, George B. SCINTILLATION COUNTERS, 1953 Nov. p. 36.
- Colp, Ralph, Jr. ERNEST STARLING, 1951 Oct. p. 56.
- Colwell, Robert N. REMOTE SENSING OF NATURAL RESOURCES, 1968 Jan. p. 54.
- Comer, James P. THE SOCIAL POWER OF THE NEGRO, 1967 Apr. p. 21. [633]
- Comfort, Alex. THE LIFE SPAN OF ANIMALS, 1961 Aug. p. 108.
- Compton, Karl T. ENGINEERS, 1951 Sept. p. 65. Comroe, Julius H., Jr. THE LUNG, 1966 Feb. p. 56. [1034]
- Concoran, Paul, James Marston Fitch and John Templer. THE DIMENSIONS OF STAIRS, 1974 Oct. p. 82.
- Condit, Carl W. THE WIND BRACING OF BUILDINGS, 1974 Feb. p. 92.
- Cone, Clarence D., Jr. the soaring flight of BIRDS, 1962 Apr. p. 130.
- Conklin, Groff. CANCER AND ENVIRONMENT, 1949 Jan. p. 11.
- Connes, Pierre. How LIGHT IS ANALYZED, 1968 Sept. p. 72.
- Constantinides, P. C., and Niall Carey. THE ALARM REACTION, 1949 Mar. p. 20. [4] Contini, Andrea, Georges H. Werner and
- Bachisio Latte. TRACHOMA, 1964 Jan. p. 79. Converse, Philip E., and Howard Schuman.
- Converse, Philip E., and Howard Schuman.
 "SILENT MAJORITIES" AND THE VIETNAM WAR,
 1970 June p. 17. [656]
- Cook, Earl. THE FLOW OF ENERGY IN AN INDUSTRIAL SOCIETY, 1971 Sept. p. 134. [667]
- Cook, J. S. COMMUNICATION BY OPTICAL FIBER, 1973 Nov. p. 28.
- Cook, Laurence M., and J. A. Bishop. MOTHS. MELANISM AND CLEAN AIR, 1975 Jan. p. 90. [1314]
- Cook, Nathan H. computer-managed parts manufacture, 1975 Feb. p. 22.
- Cook, Newell C. METALLIDING, 1969 Aug. p. 38. Coons, Steven Anson. The USES OF COMPUTERS IN TECHNOLOGY, 1966 Sept. p. 176.
- Cooper, Alan F., Jr., and John H. Crowe. CRYPTOBIOSIS, 1971 Dec. p. 30. [1237]
- CRYPTOBIOSIS, 1971 Dec. p. 30. [1237]
 Cooper, Charles F. THE ECOLOGY OF FIRE, 1961
 Apr. p. 150. [1099]
- Cooper, Louis Z. GERMAN MEASLES, 1966 July p. 30.
- Cooper, Max D., and Alexander R. Lawton III. THE DEVELOPMENT OF THE IMMUNE SYSTEM, 1974 Nov. p. 58. [1306]
- Cooper, Philip, R. F. Mallina, Theodore R. Miller and Stanley G. Christie. SURGICAL STAPLING, 1962 Oct. p. 43.
- Cooper, William W., and Abraham Charnes. LINEAR PROGRAMMING, 1954 Aug. p. 21.

- Coopersmith, Stanley. STUDIES IN SELF-ESTEEM, 1968 Feb. p. 96. [511]
- Copeland, L. E., and Stephen Brunauer. THE CHEMISTRY OF CONCRETE, 1964 Apr. p. 80.
- Coppi, Bruno, and Jan Rem, the tokamak APPROACH IN FUSION RESEARCH, 1972 July p. 65.
- Corballis, Michael C., and Ivan L. Beale. on TELLING LEFT FROM RIGHT, 1971 Mar. p. 96. [535]
- Corballis, Michael C., and Olga Eizner Favreau. NEGATIVE AFTEREFFECTS IN VISUAL PERCEPTION, 1976 Dec. p. 42. [574]
- Corbató, F. J., and R. M. Fano. Time-sharing on Computers, 1966 Sept. p. 128.
- Corben, H. C., and S. DeBenedetti. THE ULTIMATE ATOM, 1954 Dec. p. 88.
- Corey, Robert B., Linus Pauling and Roger Hayward. THE STRUCTURE OF PROTEIN MOLECULES, 1954 July p. 51. [31]
- Cornish, Joseph J., III. THE BOUNDARY LAYER, 1954 Aug. p. 72.
- Costerton, J. W., G. G. Geesey and K.-J. Cheng HOW BACTERIA STICK, 1978 Jan. p. 86. [1379]
- Courant Freet D. a 100-BH LION-VOLT
- Courant, Ernest D. A 100-BILLION-VOLT ACCELERATOR, 1953 May p. 40.
- Courant, Richard. MATHEMATICS IN THE MODERN WORLD, 1964 Sept. p. 40.
- Covino, Benjamin G., and Raymond J. Hock. HYPOTHERMIA, 1958 Mar. p. 104.
- Cowan, George A. A NATURAL FISSION REACTOR, 1976 July p. 36.
- Cowgill, Ursula M. THE PEOPLE OF YORK: 1538-1812, 1970 Jan. p. 104.
- Cox, Allan, G. Brent Dalrymple and Richard R. Doell. REVERSALS OF THE EARTH'S MAGNETIC FIELD, 1967 Feb. p. 44.
- Cox, Everett F. Atomic Bomb Blast Waves, 1953 Apr. p. 94.
- Cox, Keith G. KIMBERLITE PIPES, 1978 Apr. p. 120. [931]
- Craig, Paul P., William B. Sampson and Myron Strongin. Advances in Superconducting MAGNETS, 1967 Mar. p. 114.
- Cranberg, Lawrence. FAST-NEUTRON SPECTROSCOPY, 1964 Mar. p. 79.
- Crane, H. R. THE g FACTOR OF THE ELECTRON, 1968 Jan. p. 72.
- Crary, A. P. THE ANTARCTIC, 1962 Sept. p. 60. [857]
- Crawford, Bryce, Jr. CHEMICAL ANALYSIS BY INFRARED, 1953 Oct. p. 42. [257]
- Crewdson, Richard C., and Ronald K. Linde. SHOCK WAVES IN SOLIDS, 1969 May p. 82.
- Crewe, Albert V. a high-resolution scanning electron microscope, 1971 Apr. p. 26.
- Crick, F. H. C. THE STRUCTURE OF THE HEREDITARY MATERIAL, 1954 Oct. p. 54; NUCLEIC ACIDS, 1957 Sept. p. 188 [54]; THE GENETIC CODE, 1962 Oct. p. 66 [123]; THE GENETIC CODE: III, 1966 Oct. p. 55. [1052]
- Croce, Carlo M., and Hilary Koprowski. THE GENETICS OF HUMAN CANCER, 1978 Feb. p. 117. [1381]
- Crombie, A. C. Helmholtz, 1958 Mar. p. 94; Descartes, 1959 Oct. p. 160; early conclpts of the senses and the mind, 1964 May p. 108. [184]
- Crow, James F. IONIZING RADIATION AND EVOLUTION, 1959 Sept. p. 138. [55] Crowder, Billy L., and Frederick F. Morehead,
- Jr. ION IMPLANTATION, 1973 Apr. p. 64. Crowe, John H., and Alan F. Cooper, Jr. CRYPTOBIOSIS, 1971 Dec. p. 30. [1237]

Emlen, Stephen T THE STELLAR ORIENTATION SYSTEM OF A MIGRATORY BIRD, 1975 Aug. p 102 [1327]

Emmett, John L, John Nuckolls and Lowell Wood FUSION POWER BY LASER IMPLOSION, 1974 June p 24

Emmons, Howard W FIRE AND FIRE PROTECTION, 1974 July p 21

Engel, Leonard Smelting under pressure, 1948 May p 54, the philips air engine, 1948 July p 52, the bingham plan, 1948 Oct p 7, Gas from the mine, 1950 June p 52

Engel, Leonard, and C Walton Lillehei OPEN HEART SURGERY, 1960 Feb p 76 Engel, Leonard, and Maurice Ewing SEISMIC SHOOTING AT SEA, 1962 May p 116

Engel, Leonard, and Michael E De Bakey BLOOD-VESSEL SURGERY, 1961 Apr p 88 Engelman, Donald M, and Peter B Moore NEUTRON SCATTERING STUDIES OF THE

RIBOSOME, 1976 Oct p 44
English, Richard D, and Dan I Bolef defense
AGAINST BOMBER ATTACK, 1973 Aug p 11
Epel, David the Program of Fertilization,

1977 Nov p 128 [1372] Ephrussi, Boris, and Mary C Weiss hybrid somatic cells, 1969 Apr p 26 [1137] Epstein, Emanuel Roots, 1973 May p 48 [1271]

Epstein, R. H, and R S Edgar the genetics of a bacterial virus, 1965 Feb p 70 [1004] Epstein, William nuclear freezones, 1975 Nov p 25 the proliferation of nuclear weapons, 1975 Apr p 18

Eneson, David B, and Goesta Wollin Micro-PALEONTOLOGY, 1962 July p 96 [856] Erwin, Wallace R., and Richard M Lemmon HIGH ENERGY REACTIONS OF CARBON, 1975 Jan p 72

Esch, Harald THE EVOLUTION OF BEE LANGUAGE,

1967 Apr p 96 [1071] Eshleman, Von R. the atmospheres of Mars and Venus, 1969 Mar p 78

Eshleman, Von R., and Allen M Peterson RADAR ASTRONOMY, 1960 Aug p 50 Essmann, Uwe, and Hermann Trauble THE MAGNETIC STRUCTURE OF SUPERCONDUCTORS,

1971 Mar p 74
Estes, J Worth, and Paul Dudley White
WILLIAM WITHERING AND THE PURPLE
FOXGLOVE, 1965 June p 110

Etkin, William HOW A TADPOLE BECOMES A FROG,

1966 May p 76 [1042] Ettel, Peter C, and Elwyn L Simons GIGANTOPITHECUS 1970 Jan p 76

Euler, Leonhard Leonhard Euler and the KOENGSBERG BRIDGES, 1953 July p 66 Evans, Clifford, and Betty J Meggers a TRA

Evans, Clifford, and Betty J Meggers a trans-Pacific contact in 2000 BC, 1966 Jan p 28 Evans, David C computer logic and memory, 1966 Sept p 74

Evans, Howard E. PREDATORY WASPS, 1963 Apr p. 144

Evans, Howard E., and Robert W. Matthews THE SAND WASPS OF AUSTRALIA, 1975 Dec p. 108

Evans John W SOLAR FLARES, 1951 Dec p 17 Evans John M., Jr. and James S. Albus ROBOT SYSTEMS, 1976 Feb. p. 76

Evans Ralph M SEEING LIGHT AND COLOR, 1949 Aug. p. 52, MAXWELL S COLOR PHOTOGRAPH,

1961 Nov. p. 118
Evarts, Edward V. Brain Mechanisms in Movement. 1973 July p. 96. [1277]
Evenari, Michael, and Dov. Koller Ancient. Masters of the Desirt, 1956 Apr. p. 39.

ž

Everhart, Thomas E, and Thomas L. Hayes THE SCANNING ELECTRON MICROSCOPE, 1972 Jan p 54

Ewen, Harold I radio waves from interstellar hydrogen, 1953 Dec p 42 Ewert, Jörg-Peter the neural basis of visually guided behavior, 1974 Mar p 34 [1293] Ewing, A W, and H C Bennet-Clark the love

SONG OF THE FRUIT FLY, 1970 July p 84 [1183] Ewing, Maurice, and Leonard Engel Seismic SHOOTING AT SEA, 1962 May p 116 Eysenck, H J THE MEASUREMENT OF

MOTIVATION, 1963 May p 130 [477]

 F_{i}

Fairbridge, Rhodes W THE CHANGING LEVEL OF THE SEA, 1960 May p 70

Faller, James E, and E Joseph Wampler the LUNAR LASER REFLECTOR, 1970 Mar p 38 Faller, Larry Relaxation Methods in Chemistry, 1969 May p 30

Fano, R. M., and F. J. Corbato Time Sharing on Computers, 1966 Sept. p. 128

Fantz, Robert L the origin of form perception, 1961 May p 66 [459]
Fartis, Edmond J Male Fertility, 1950 May p 16

Favreau, Olga Eizner, and Michael C Corballis NEGATIVE AFTEREFFECTS IN VISUAL PERCEPTION, 1976 Dec p 42 [574]

Feder, H S, and A E. Spencer TELEPHONE switching, 1962 July p 132

Feder, Howard M ESCAPE RESPONSES IN MARINE INVERTEBRATES, 1972 July p 92 [1254]
Fedoseev, D B, and Boris V Derjaguin the SYNTHESIS OF DIAMOND AT LOW PRESSURE, 1975

Nov p 102 Fein, Jack M microvascular surgery for stroke, 1978 Apr p 58 [1385]

Feinberg, Gerald ordinary Matter, 1967 May p 126, Light, 1968 Sept p 50, particles that go faster than Light, 1970 Feb p 68 Feinberg, Gerald, and Maurice Goldhaber the

conservation laws of physics, 1963 Oct.
p 36

Feiss, Julian W MINERALS, 1963 Sept p 128 Feistel, Horst Cryptography and computer PRIVACY, 1973 May p 15

Feld, M. S., and V. S. Letokhov laser spectroscopy, 1973 Dec. p. 69 Feldstein, Martin S. The MEDICAL ECONOMY,

1973 Sept p 151 Fender, Derek H control mechanisms of the

EYE, 1964 July p 24
Fenn, Wallace O Potassium, 1949 Aug p 16.

THE MECHANISM OF BREATHING, 1960 Jan p 138

Fenner, Frank the Rabbit Plague, 1954 Feb p 30

Fergason, James L LIQUID CRYSTALS, 1964 Aug. p. 76

Ferguson, Elizabeth A PRIMITIVE MEDICINE, 1948 Sept p 24

Ferguson, Eugene S the origins of the steam engine, 1964 Jan p 98, the measurement of the "Man day", 1971 Oct p 96

Fernstrom, John D., and Richard J. Wurtman NUTRITION AND THE BRAIN, 1974 Feb. p. 84 [1291]

Ferster, Charles B ARITHMETIC BEHAVIOR IN CHIMPANZEES, 1964 May p 98 [484]
Fertig, Daniel S, and Vaughan W Edmonds.
THE PHYSIOLOGY OF THE HOUSE MOUSE, 1969
Oct. p 103 [1159]

Festinger, Leon Cognitive dissonance, 1962 Oct p 93 [472]

Few, Arthur A THUNDER, 1975 July p 80
Fiddes, John C THE NUCLEOTIDE SEQUENCE OF A
VIRAL DNA, 1977 Dec p 54 [1374]
Field, William O GLACIERS, 1955 Sept p 84

Fieser, Louis F steroids, 1955 Jan p 52 [8] Fine, Jacob traumatic shock, 1952 Dec p 62 Fine, M M the beneficiation of iron ores, 1968 Jan p 28

[809]

Finnell, H H THE DUST STORMS OF 1948, 1948
Aug p 7, THE DUST STORMS OF 1954, 1954 July p 25

Fischberg, Michail, and Antonie W Blackler HOW CELLS SPECIALIZE, 1961 Sept p 124 [94] Fish, Marie Poland Animal Sounds in the Sea, 1956 Apr p 93

Fisher, Alan E. CHEMICAL STIMULATION OF THE BRAIN, 1964 June p 60 [485]

Fisher, Harry L RUBBER, 1956 Nov p 74
Fisher, Robert L, and Roger Revelle THE
TRENCHES OF THE PACIFIC, 1955 Nov p 36
[814]

Fisher, W Halder THE ANATOMY OF INFLATION 1953-1975, 1971 Nov p 15

Fitch, James Marston the Curtain Wall, 1955 Mar p 44, the Control of the Luminous Environment, 1968 Sept p 190

Fitch, James Marston, and Daniel P Branch
PRIMITIVE ARCHITECTURE AND CLIMATE, 1960
Dec p 134

Fitch, James Marston, John Templer and Paul Corcoran the Dimensions of Stairs, 1974 Oct p 82

Oct p 82
Flagg, John F, and Edwin L Zebroski atomic
PILE CHEMISTRY, 1952 July p 62

Flanagan, James L THE SYNTHESIS OF SPEECH, 1972 Feb p 48

Flandro, Gary A, and George Sotter RESONANT COMBUSTION IN ROCKETS, 1968 Dec p 94 Flannelly, Kevin, and Richard Lore RAT

societies, 1977 May p 106 [577]
Fleischer, R. L., P. B. Price and R. M. Walker

NUCLEAR TRACKS IN SOLIDS, 1969 June p 30 Flemings, Merton C the solidification of castings, 1974 Dec p 88

Flemming, Arthur S MOBILIZATION, 1951 Sept p 89

Fletcher, J M and F Hudswell GENEVA CHEMISTRY, 1955 Oct. p 34 Flood, H William, and Bernard S Lee

Fluidization, 1968 July p 94
Flower, Andrew R. world oil production,

1978 Mar p 42 [930]

Fiver Vary and Marione R. Townsend To

Flyger, Vagn, and Maijone R. Townsend the MIGRATION OF POLAR BEARS, 1968 Feb p 108 [1102]

Fohs, F Julius MIDDLE EAST OIL, 1948 Sept. p 9 Folkman, Judah THE VASCULARIZATION OF TUMORS, 1976 May p 58 [1339]

Folsome, Clair E., James G. Lawless and Keith A. Kvenvolden Organic Matter in METEORITES, 1972 June p. 38 [902]

Ford, James A Mound Builders of the Mississippi, 1952 Mar p 22, the history of a peruvian valley, 1954 Aug p 28

Ford, Kenneth W MAGNETIC MONOPOLES, 1963
Dec. p 122

Fortes, Meyer PRIMITIVE KINSHIP, 1959 June p 146

Fosier, Hal RADAR AND THE WEATHER, 1953 July D 34

Fowler, Melvin L. Apre Columbias Urbas Center on the Mississippi, 1975 Aug. p. 92 [688]

. . . .

Dirac, P A M THE EVOLUTION OF THE PHYSICIST'S PICTURE OF NATURE, 1963 May p 45

Disney, Michael J, and Philippe Veron BL LACERTAE OBJECTS, 1977 Aug p 32 [372] Dixon, Frank J, and Richard A Lerner the HUMAN LYMPHOCYTE AS AN EXPERIMENTAL ANIMAL, 1973 June p 82 [1275]

Dixon, J E, J R Cann and Colin Renfrew OBSIDIAN AND THE ORIGINS OF TRADE, 1968 Mar p 38

Dobzhansky, Theodosius the Genetic Basis of evolution, 1950 Jan p 32 [6], Genetics, 1950 Sept p 55, the present evolution of Man, 1960 Sept p 206 [609]

Dobzhansky, Theodosius, and João Murça-Pires STRANGLER TREES, 1954 Jan p 78

Doell, Richard R, Allan Cox and G Brent Dalrymple REVERSALS OF THE EARTH S MAGNETIC FIELD, 1967 Feb p 44

Doerner, Friedrich Karl, and Theresa Goell THE TOMB OF ANTIOCHUS I, 1956 July p 38

Dole, Vincent P BODY FAT, 1959 Dec p 70

Doef Feling The STANDARD TO THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF T

Dorf, Erling the petrified forests of YELLOWSTONE PARK, 1964 Apr p 106 Doty, Paul proteins, 1957 Sept p 173 [7]

Doty, Paul Proteins, 1957 Sept p 173 [7] Double, D D, and A Hellawell the SOLIDIFICATION OF CEMENT, 1977 July p 82 [370]

Doumani, George A, and Wiliam E. Long the ANCIENT LIFE OF THE ANTARCTIC, 1962 Sept p. 168 [863]

Dovring, Folke Soybeans, 1974 Feb p 14 Dowling, John E NIGHT BLINDNESS, 1966 Oct p 78 [1053]

Downs, Robert J, and W L Butler LIGHT AND PLANT DEVELOPMENT, 1960 Dec p 56 [107] Dozier, Edward P the hopi and the tewa, 1957 June p 126

Drake, Elisabeth, and Robert C Reid the importation of Liquefied Natural Gas, 1977 Apr p 22 [358]

Drake, Frank, and Carl Sagan the search for extraterrestrial intelligence, 1975 May p 80 [347]

Drake, Stillman Galileo's discovery of the Law of free fall, 1973 May p 84 the role of music in Galileo's experiments, 1975 June p 98, Galileo and the first mechanical computing device, 1976 Apr p 104

Drake, Stillman, and James MacLachlan GALILEO'S DISCOVERY OF THE PARABOLIC TRAJECTORY, 1975 Mar p 102

Dransfeld, Klaus KILOMEGACYCLE ULTRASONICS, 1963 June p 60

Dreesman, Gordon R, Joseph L Melnick and F Blaine Hollinger VIRAL HEPATITIS, 1977 July p 44 [1365]

Drell, Sidney D ELECTRON POSITRON
ANNIHILATION AND THE NEW PARTICLES, 1975
June p 50

Drell, Sidney D, and Frank von Hippel
LIMITED NUCLEAR WAR, 1976 Nov p 27

Drexhage, Karl H MONOMOLECULAR LAYERS AND LIGHT, 1970 Mar p 108

Drinker, Cecil K the physiology of whales, 1949 July p 52

Drobeck, Hans Peter, and Reginald D
Manwell Toloplasmosis, 1953 Feb p 86
Dubos, Rene J Tuberculosis, 1949 Oct p 30,
SECOND THOUGHTS ON THE GERM THEORY, 1955
May p 31

Dudrick, Stanley J., and Jonathan E. Rhoads TOTAL INTRAVENOUS FEEDING, 1972 May p. 73 Dulbecco. Renato. THE INDUCTION OF CANCER BY VIRUSES, 1967 Apr. p. 28 [1069] Dunn, Leslie C GENETIC MONSTERS, 1950 June p 16

Dunn, Leslie C and Stephen P THE JEWISH COMMUNITY OF ROME, 1957 Mar p 118 Dunn-Rankin, Peter THE VISUAL CHARACTERISTICS OF WORDS, 1978 Jan p 122 [580]

Duveen, Denis I Lavoisier, 1956 May p 84 Duwez, Pol High Temperatures Materials, 1954 Sept p 98

Dyal, Palmer, and Curtis W Parkin THE MAGNETISM OF THE MOON, 1971 Aug p 62 Dyckman, John W TRANSPORTATION IN CITIES, 1965 Sept p 162

Dye, James L the solvated electron, 1967 Feb p 76, anions of the alkali metals, 1977 July p 92 [368]

Dyke, W P ADVANCES IN FIELD EMISSION, 1964 Jan p 108

Dyson, Freeman J field theory, 1953 Apr p 57 [208], what is heat?, 1954 Sept p 58, innovation in physics, 1958 Sept p 74, mathematics in the physical sciences, 1964 Sept p 129, energy in the universe, 1971 Sept p 50 [662]

Dyson-Hudson, Rada and Neville Subsistence HERDING IN UGANDA, 1969 Feb p 76

E

Easby, Dudley T, Jr Early METALLURGY IN THE NEW WORLD, 1966 Apr p 72

Eastlund, Bernard J, and William C. Gough THE PROSPECTS OF FUSION POWER, 1971 Feb p 50 [340]

Eastman, G Yale THE HEAT PIPE, 1968 May p 38

Eaton, G Gray the social order of Japanese MACAQUES, 1976 Oct p 96 [1345] Eaton, Joseph W, and Robert J Weil the

MENTAL HEALTH OF THE HUTTERITES, 1953 Dec

p 31 [440] Ebert, James D the first heartbeats, 1959

Mar p 87 [56] Ebert, Robert H THE MEDICAL SCHOOL, 1973 Sept p 138

Eccles, Sir John the Physiology of imagination, 1958 Sept p 135 [65], the synapse, 1965 Jan p 56 [1001]

Echlin, Patrick THE BLUE GREEN ALGAE, 1966

June p 74, POLLEN, 1968 Apr p 80 [1105]

Eckhardt, Robert B POPULATION GENETICS AND HUMAN ORIGINS, 1972 Jan p 94 [676] Eddy. John A The CASE OF THE MISSING

Eddy, John A THE CASE OF THE MISSING SUNSPOTS, 1977 May p 80 [925]

Edelman, Gerald M THE STRUCTURE AND FUNCTION OF ANTIBODIES, 1970 Aug p 34 [1185]

Edelson, Burton I GLOBAL SATELLITE COMMUNICATIONS, 1977 Feb p 58 [353]

Edgar, R. S., and R. H. Epstein The GENETICS OF A BACTERIAL VIRUS, 1965 Feb. p. 70 [1004] Edgar, R. S., and William B. Wood BUILDING A BACTERIAL VIRUS, 1967 July p. 60 [1079]

Edmonds, Vaughan W, and Daniel S Fertig. THE PHYSIOLOGY OF THE HOUSE MOLSE, 1969 Oct p 103 [1159]

Edmundson, Allen B, and J Donald Capra THE ANTIBODY COMBINING SITE, 1977 Jan p 50 (1350)

Edson, Lee, Samuel A Schaaf and Lawrence Talbot ULTRAHIGH ALTITUDE AERODYNAMICS, 1958 Jan p 36

Edwards, Clive A SOIL POLLUTANTS AND SOIL ANIMALS, 1969 Apr p 88 [1138]

Edwards, John S insect assassins, 1960 June p 72
Edwards, L K high speed tube transportation, 1965 Aug p 30
Edwards, R G mammalian eggs in the

LABORATORY, 1966 Aug p 72 [1047]
Edwards, R G, and Ruth E Fowler Human
EMBRYOS IN THE LABORATORY, 1970 Dec p 44
[1206]

Effler, Donald B SURGERY FOR CORONARY DISEASE, 1968 Oct p 36
Efron, Bradley, and Carl Morris Stein's

PARADOX IN STATISTICS, 1977 May p 119 [363] Eggen, O J STARS IN CONTACT, 1968 June p 34 Eglinton, Geoffrey, and Melvin Calvin CHEMICAL FOSSILS, 1967 Jan p 32 [308]

Eglinton, Geoffrey, James R. Maxwell and Colin T Pillinger the Carbon Chemistry of the Moon, 1972 Oct p 80

Ehrenberg, W MAXWELL'S DEMON, 1967 Nov p 103 [317]

Ehrenreich, Henry the electrical properties of materials, 1967 Sept p 194

Ehricke, Krafft A, and George Gamow A ROCKET AROUND THE MOON, 1957 June p 47 Ehrlich, Paul R, and Peter H Raven BUTTERFLIES AND PLANTS, 1967 June p 104

[1076]
Eibl-Eibesfeldt, Irenaus the fighting behavior of animals, 1961 Dec p 112 [470]

Einstein, Albert on the Generalized theory of Gravitation, 1950 Apr p 13

Eisch, John J, and Henry Gilman LITHIUM, 1963 Jan p 88

Eiseley, Loren C antiquity of modern man, 1948 July p 16, is man here to stay?, 1950 Nov p 52, is man alone in space?, 1953 July p 80, fossil man, 1953 Dec p 65, man the firemaker, 1954 Sept p 52, charles darwin, 1956 Feb p 62 [108], oreopithecus homunculus or monkey?, 1956 June p 91, alfred russel wallace, 1959 Feb p 70, charles lyell, 1959 Aug p 98 [846]

Eisenberg, Leon PSYCHIATRIC INTERVENTION, 1973 Sept p 116

Eklund, Carl R THE ANTARCTIC SKUA 1964 Feb

Eldrenkamp, Lowell B, Ellis Levin and Donald D Viele THE LUNAR ORBITER MISSIONS TO THE MOON, 1968 May p 58

Elias, Thomas S, and Howard S Irwin URBAN TREES, 1976 Nov p 110

Eliassen, Rolf STREAM POLLUTION, 1952 Mar p 17

Ellis H S and E J Jensen PIPELINES, 1967
Jan p 62

Ellison, W D EROSION BY RAINDROP, 1948 Nov p 40 [817]

Elsasser, Walter M THE EARTH AS A DYN MO 1958 May p 44

Elvey, C. T., and Franklin E. Roach Aurora AND AIRGLOW, 1955 Sept p 140 Emerson, Ralph Molds and Men, 1952 Jan p 28 [115]

Emerson, Thomas I COMMUNICATION AND FREEDOM OF EXPRESSION 1972 Scpt p 163 [680]

Emery, K. O. THE CONTINENTAL SHELVES 1969 Sept. p. 106 [882]

Emery, Walter B THE TOMBS OF THE LIRST
THARAOHS 1957 July p 106

Emiliani, Cesare Ancient in Mierateres 1958
Feb p 54 [815]

Emlen, John T, and Richard L. Penney 1111 NAVIGATIO FOR PENGENNS 1966 Oct. p. 104

- Gibor, Aharon Acetabularia a useful giant cell, 1966 Nov p 118 [1057]
- Gibor, Aharon, and Preston Cloud THE OXYGEN CYCLE, 1970 Sept p 110 [1192]
- Gibson, Alan R, and Mitchell Glickstein visual cells in the pons of the brain, 1976 Nov p 90 [573]
- Gibson, Eleanor J, and Richard D Walk THE "VISUAL CLIFF", 1960 Apr p 64 [402]
- Gibson, R. C, H W Hyden and J H Brophy SUPERPLASTIC METALS, 1969 Mar p 28 Giddings, J L, Jr EARLY MAN IN THE ARCTIC, 1954 June p 82
- Gierer, Alfred Hydra as a model for the development of biological form, 1974 Dec p 44 [1309]
- Gilbert, Perty W THE BEHAVIOR OF SHARKS, 1962 July p 60 [127]
- Gilbert, Walter, and Mark Ptashne GENETIC REPRESSORS, 1970 June p 36 [1179]
- Gill, James R., and Ralph L Miller URANIUM FROM COAL, 1954 Oct p 36
- Gilliard, E. Thomas THE EVOLUTION OF BOWERBIRDS, 1963 Aug p 38 [1098]
- Gillie, R. Bruce ENDEMIC GOITER, 1971 June p 92
- Gilman, Henry, and John J Eisch LITHIUM, 1963 Jan p 88
- Gilman, John J fracture in solids, 1960 Feb p 94, the nature of ceramics, 1966 Sept p 112
- Gilman, Peter A, and Victor P Start the CIRCULATION OF THE SUN S ATMOSPHERE, 1968
 Jan p 100
- Gilman, Roger H CARGO HANDLING, 1968 Oct p 80
- Gilmore, Raymond M THE RETURN OF THE GRAY WHALE, 1955 Jan p 62
- Gingerich, Owen the solar system beyond neptune, 1959 Apr p 86, copernicus and tycho, 1973 Dec p 86
- Ginzberg, Eli the pluralistic economy of the U.S., 1976 Dec p 25, the job problem, 1977 Nov p 43 [701]
- Ginzburg, N I, and N B Brandt
 SUPERCONDUCTIVITY AT HIGH PRESSURE, 1971
 Apr p 83
- Ginzburg, V L ARTIFICIAL SATELLITES AND THE THEORY OF RELATIVITY, 1959 May p 149, THE ASTROPHYSICS OF COSMIC RAYS, 1969 Feb p 50
- Ginzton, Edward L THE KLYSTRON, 1954 Mar p 84
- Ginzton, Edward L , and William F Kirk the TWO-MILE ELECTRON ACCELERATOR, 1961 Nov p 49 [322]
- Giordmaine, J A THE INTERACTION OF LIGHT WITH LIGHT, 1964 Apr p 38
- Gitlin, David, and Charles A Janeway AGAMMAGLOBULINEMIA, 1957 July p 93 Glaessner, Martin F PRE CAMBRIAN ANIMALS,
- 1961 Mar p 72 [837] Glaser, Donald A THE BUBBLE CHAMBER, 1955 Feb. p. 46 [214]
- Feb p 46 [214] Glashow, Sheldon Lee QUARKS WITH COLOR AND
- FLAVOR 1975 Oct p 38
 Glass, Billy P, and Bruce C Heezen TENTITES
 AND GEOMAGNETIC REVERSALS, 1967 July
- Glass, H Bentley THE GENETICS OF THE DUNKERS, 1953 Aug. p. 76 [1062], MALPERTUIS, A FORGOTTEN GLNIUS, 1955 Oct p. 100
- Glavitsch Hans Comfuter Control of LLICTRIC POWER SYSTEMS, 1974 Nov p 34 Glazer, Nathan the Renewal of Cities, 1965 Sept p 194

- Glazier, William H THE TASK OF MEDICINE, 1973 Apr p 13
- Gleitman, Henry PLACE LEARNING, 1963 Oct p 116 [479]
- Glesinger, Egon the MEDITERRANEAN PROJECT, 1960 July p 86 Glickstein, Mitchell, and Alan R Gibson
- VISUAL CELLS IN THE PONS OF THE BRAIN, 1976 Nov p 90 [573] Glob, P V, and Thomas G Bibby A
- Glob, P V, and Thomas G Bibby A FORGOTTEN CIVILIZATION OF THE PERSIAN GULF, 1960 Oct p 62
- Glock, Charles Y, and Joseph T Klapper TRIAL BY NEWSPAPER, 1949 Feb p 16
- Gluckman, Max the rise of a zulu empire, 1960 Apr p 157
- Glucksberg, Sam, and Robert M Kraus social and nonsocial speech, 1977 Feb p 100 [576]
- Goddard, James L THE MEDICAL BUSINESS, 1973 Sept p 161
- Goell, Theresa, and Friedrich Karl Doerner THE TOMB OF ANTIOCHUS 1, 1956 July p 38
- Gogel, Walter C THE ADJACENCY PRINCIPLE IN VISUAL PERCEPTION, 1978 May p 126 [582]
- Goldberg, Leo ULTRAVIOLET ASTRONOMY, 1969
 June p 92
 Coldbebra Alfred Schorff, and Michael Martin
- Goldhaber, Alfred Scharff, and Michael Martin Nieto the mass of the photon, 1976 May p 86
- Goldhaber, Maurice, and Gerald Feinberg. THE CONSERVATION LAWS OF PHYSICS, 1963 Oct p 36
- Goldmark, Peter C COMMUNICATION AND THE COMMUNITY, 1972 Sept p 142 [678]
- Goldreich, Peter tides and the Earth Moon system, 1972 Apr p 42
- Goldschmidt, Arthur the development of the Us south, 1963 Sept p 224
- Goldschmidt, Richard B PHENOCOPIES, 1949 Oct p 46
- Goldschmidt, Walter THE BRIDEPRICE OF THE SEBEI, 1973 July p 74
- Goldstein, Kurt prefrontal lobotomy analysis and warning, 1950 Feb p 44 [445]
- Goldstein, M S, and Rachmiel Levine THE ACTION OF INSULIN, 1958 May p 99
- Goldwater, Leonard J MERCURY IN THE ENVIRONMENT, 1971 May p 15 [1221]

 Gombrich F. H. THE VISUAL IMAGE, 1972 Set
- Gombrich, E H THE VISUAL IMAGE, 1972 Sept p 82 [548]
- Goodenough, Ursula W, and R. P Levine the genetic activity of mitochondria and chloroplasts, 1970 Nov p 22 [1203] Goodfield, June the tunnel of eupalinus,
- 1964 June p 104 Goodrich, H B, R H Knapp and George A
- W Boehm THE ORIGINS OF U.S SCIENTISTS, 1951 July p 15
- Gordienko, P. A. THE ARCTIC OCEAN, 1961 May p. 88
- Gordon, Barbara THE SUPERIOR COLLICULUS OF THE BRAIN, 1972 Dec p 72 [553]
- Gordon, Cyrus H THE GREEKS AND THE HEBREWS, 1965 Feb p 102
- Gordon, James P THE MASER, 1958 Dec p 42
 [215]
- Gordon, Manuel J THE CONTROL OF SEX, 1958 Nov p 87
- Gordon, Richard, and Antone G Jacobson THE SHAPING OF TISSUES IN EMBRYOS, 1978 June p 106 [1391]
- Gordon, Richard, Gabor T Herman and Steven A Johnson IMAGE RECONSTRUCTION FROM PROJECTIONS, 1975 Oct p 56
- Gordy. Walter THE SHORTEST RADIO WAVES, 1957 May p. 46

- Gorenstein, Paul, and Wallace Tucker SUPER NOVA REMNANTS, 1971 July p 74
- Gorini, Luigi antibiotics and the genetic code, 1966 Apr p 102
- Gosling, J. T., and A. J. Hundhausen waves in The Solar wind, 1977 Mar. p. 36 [1353]
- Gosselin, Edward A, and Lawrence S Lerner Giordano Bruno, 1973 Apr p 86
- Gosz, James R, Richard T Holmes, Gene E. Likens and F Herbert Bormann The Flow of ENERGY IN A FOREST ECOSYSTEM, 1978 Mar p 92 [1384]
- Gott, J Richard, III, James E Gunn, David N Schramm and Beatrice M Tinsley WILL THE UNIVERSE EXPAND FOREVER?, 1976 Mar p 62
- Gottlieb, Bernhard a New Theory of Tooth DECAY, 1948 Oct p 20
- Gough, William C, and Bernard J Eastlund
 THE PROSPECTS OF FUSION POWER, 1971 Feb
 p 50 [340]
- Govindjee and Eugene I Rabinowitch THE ROLE OF CHLOROPHYLL IN PHOTOSYNTHESIS, 1965 July p 74 [1016]
- Govindjee and Rajni Govindjee the ABSORPTION OF LIGHT IN PHOTOSYNTHESIS, 1974 Dec p 68 [1310]
- Graham, L C, Homer Jensen, Leonard J
 Porcello and Emmett N Leith Side Looking
 AIRBORNERADAR, 1977 Oct p 84 [386]
- Graham, Ronald L THE COMBINATORIAL MATHEMATICS OF SCHEDULING, 1978 Mar p. 124 [3001]
- p 124 [3001] Grant, Verne THE FERTILIZATION OF FLOWERS,
- 1951 June p 52 [12]
 Gray, George W THE ULTIMATE PARTICLES, 1948
 June p 26, "THE GREAT RAVELLED KNOT, 1948
 Oct p 26 [13], COSMIC RAYS, 1949 Mar p 28,
 PAULING AND BEADLE, 1949 May p 16, THE
 ANTIBIOTICS, 1949 Aug p 26, THE NOBEL
 PRIZES, 1949 Dec p 11, CORTISONE AND ACTH.
- 1950 Mar p 30 [14], the Ultracentrifuge, 1951 June p 42 [82], sickle cellanemia, 1951 Aug p 56, electrophoresis, 1951 Dec p 45 [83], the Universe from Palomar, 1952
- Feb p 43, a larger and older universe, 1953 June p 56, human growth, 1953 Oct p 65 [1063], the yerkes laboratories, 1955
- Feb p 67, unknown viruses, 1955 Mar p 60, life at high altitudes, 1955 Dec
- p 58, the Lamont Geological Observatory, 1956 Dec p 83, "the organizer, 1957 Nov p 79 [103]
- Gray, Sir James How FISHES SWIM, 1957 Aug p 48 [1113]
- Greeley, Andrew M, and Paul B Sheatsley
 ATTITUDES TOWARD RACIAL INTEGRATION, 1971
 Dec p 13 [673]
- Greeley, Andrew M. D. Garth Taylor and Paul B. Sheatsley attitudes toward racial INTEGRATION, 1978 June p. 42 [707]
- INTEGRATION, 1978 June p 42 [707]
 Green, David E ENZYMES IN TEAMS, 1949 Sept p 48 [15], THE METABOLISM OF FATS, 1954 Jan p 32 [16], BIOLOGICAL OXIDATION, 1958 July p 56, THE SYNTHESIS OF FAT, 1960 Feb p 46
- [67], THE MITOCHONDRION, 1964 Jan p 63 Greenberg, Bernard FLIES AND DISEASE, 1965 July p 92
- Greenberg, Donald P COMPUTER GRAPHICS IN ARCHITECTURE, 1974 May p 98
 - Greenberg, J Mayo interstellar grains, 1966 Oct p 106
- Greenberg, Leon A ALCOHOL IN THE BODY, 1953
 Dec p 86
- Greenberger, Martin THE USES OF COMPUTERS IN ORGANIZATIONS, 1966 Sept. p. 192
 Greene, Charles H. Glass, 1961 Jan. p. 92

- Fowler, Ruth E., and R. G. Edwards. Human EMBRYOS IN THE LABORATORY, 1970 Dec. p. 44. [1206]
- Fowler, T. K., and Richard F. Post. PROGRESS TOWARD FUSION POWER, 1966 Dec. p. 21.

Fowler, William A. THE ORIGIN OF THE ELEMENTS, 1956 Sept. p. 82.

Fowler, William A., and Jay M. Pasachoff.

DEUTERIUM IN THE UNIVERSE, 1974 May p. 108.

Fowler, William B., and Nicholas P. Samios. THE OMEGA-MINUS EXPERIMENT, 1964 Oct. p. 36.

Fox, C. Fred. the structure of cell membranes, 1972 Feb. p. 30. [1241] Fox, H. Munio. blood pigments, 1950 Mar.

p. 20.

Fraas, Arthur P., and Moshe J. Lubin, Fusion by LASER, 1971 June p. 21.

Fraenkel-Conrat, Heinz. REBUILDING A VIRUS, 1956 June p. 42 [9]; THE GENETIC CODE OF A VIRUS, 1964 Oct. p. 46. [193]

Frank, Howard, and Ivan T. Frisch. NETWORK ANALYSIS, 1970 July p. 94.

Frank, Sylvia. CAROTENOIDS, 1956 Jan. p. 80. Franklin, K. L. RADIO WAVES FROM JUPITER, 1964 July p. 34.

Franzini-Armstrong, Clara, and Keith R. Porter. THE SARCOPLASMIC RETICULUM, 1965 Mar. p. 72. [1007]

Fraser, Alistair B., and William H. Mach. MIRAGES, 1976 Jan. p. 102.

Fraser, Dean, and C. A. Knight. THE MUTATION OF VIRUSES, 1955 July p. 74. [59]

Fraser, R. D. B. KERATINS, 1969 Aug. p. 86. [1155]

Frazer, A. H. HIGH-TEMPERATURE PLASTICS, 1969 July p. 96.

Freedman, Daniel Z., and Peter van Nieuwenhuizen supergravity and the unification of the Laws of Physics, 1978 Feb. p. 126. [397]

Freedman, Lawrence Zelic. "TRUTH" DRUGS, 1960 Mar. p. 145. [497]

Freedman, Ronald F., and Bernard Berelson. A STUDY IN FERTILITY CONTROL, 1964 May p. 29 [621]; THE HUMAN POPULATION, 1974 Sept. n. 30.

Freedman, Ronald F., Pascal K. Whelpton and Arthur A. Campbell. FAMILY PLANNING IN THE U.S., 1959 Apr. p. 50.

Freeman, Arthur J., and Henry H. Kolm.
INTENSE MAGNETIC FIELDS, 1965 Apr. p. 66.
Frei, Emil, III, and Emil J. Freireich. LEUKEMIA,
1964 May p. 88.

Freimer, Earl H., and Maclyn McCarty. RHEUMATIC FEVER, 1965 Dec. p. 66.

Freireich, Emil J., and Emil Frei III. LEUKEMIA, 1964 May p. 88.

Frejka, Tomas, the prospects for a stationary world population, 1973 Mar. p. 15. [683] French, J. D. the reticular formation, 1957

May p. 54. [66]
French, Vernon, Peter J. Bryant and Susan V.
Bryant. BIOLOGICAL REGENERATION AND
PATTERN FORMATION, 1977 July p. 66. [1363]

Frey, Jeffrey, and Raymond Bowers. TECHNOLOGY ASSESSMENT AND MICROWAVE DIODES, 1972 Feb. p. 13.

Frieden, Earl, the enzyme substrate complex, 1959 Aug. p. 119; the chemistry of amphibian metamorphosis, 1963 Nov. p. 110 [170]; the biochemistry of copper, 1968 May p. 102; the chemical elements of life, 1972 July p. 52.

Friedman, Herbert, ROCKET ASTRONOMY, 1959 June p. 52; X-RAY ASTRONOMY, 1964 June p. 36. Friedmann, Theodore, PRENATAL DIAGNOSIS OF GENETIC DISEASE, 1971 Nov. p. 34, [1234] Frings, Hubert and Mable Tips, 1984, 1984

Frings, Hubert and Mable, THE LANGUAGE OF CROWS, 1959 Nov. p. 119.

Frisch, Ivan T., and Howard Frank. NETWORK ANALYSIS, 1970 July p. 94.

Frisch, O. R. on the feasibility of coal-driven power stations, 1956 Mar. p. 93; molecular beams, 1965 May p. 58.

Frith, H. J. INCUBATOR BIRDS, 1959 Aug. p. 52. Fritsch, A. R., and Glenn T. Seaborg. THE SYNTHETIC ELEMENTS: III, 1963 Apr. p. 68. [293]

Fritts, Harold C. Tree RINGS AND CLIMATE, 1972 May p. 92. [1250]

Fromkin, Victoria A. SLIPS OF THE TONGUE, 1973 Dec. p. 110. [556]

Fromm, Erich. The oedipus myth, 1949 Jan. p. 22; The nature of dreams, 1949 May p. 44. [495]

Fromm, Jacob E., and Francis H. Harlow. COMPUTER EXPERIMENTS IN FLUID DYNAMICS, 1965 Mar. p. 104.

Fruton, Joseph S. Proteins, 1950 June p. 32. [10] Fuhrman, Frederick A. TETRODOTOXIN, 1967 Aug. p. 60. [1080]

Fullman, Robert L. THE GROWTH OF CRYSTALS, 1955 Mar. p. 74.

Funkenstein, Daniel H. THE PHYSIOLOGY OF FEAR AND ANGER, 1955 May p. 74. [428]

Furtado, Celso. THE DEVELOPMENT OF BRAZIL, 1963 Sept. p. 208.

Furth, Harold P., Morton A. Levine and Ralph W. Waniek. STRONG MAGNETIC FIELDS, 1958 Feb. p. 28.

Furth, J. J., and Jerard Hurwitz. Messenger RNA, 1962 Feb. p. 41. [119]

Furth, R. the limits of measurement, 1950 July p. 48. [255]

G

Gale, Ernest F. experiments in protein synthesis, 1956 Mar. p. 42.

Gallagher, Leonard V., and Bruce S. Old. THE CONTINUOUS CASTING OF STEEL, 1963 Dec. p. 74.

Gamow, George, Galaxies in Flight, 1948 July p. 20; origin of the ice, 1948 Oct. p. 40; supernovae, 1949 Dec. p. 18; turbulence in space, 1952 June p. 26; modern cosmology, 1954 Mar. p. 54; information transfer in the Living cell, 1955 Oct. p. 70; the evolutionary universe, 1956 Sept. p. 136 [211]; the principle of uncertainty, 1958 Jan 51 [212]; the exclusion principle, 1959 July p. 74; gravity, 1961 Mar. p. 94. [264]

Gamow, George, and Krafft A. Ehricke. A ROCKET AROUND THE MOON, 1957 June p. 47. Gamow, R. Igor, and John F. Harris. THE INFRARED RECEPTORS OF SNAKES, 1973 May p. 94. [1272]

Gans, Carl. How SNAKES MOVE, 1970 June p. 82.

Gans, Carl, and Anthony C. Pooley. THE NILE CROCODILE, 1976 Apr. p. 114.

Garbell, Maurice A. The sea that spills into a desert, 1963 Aug. p. 94; the Jordan Valley plan, 1965 Mar. p. 23.

Gardels, Keith, and Robert Herman. VEHICULAR TRAFFIC FLOW, 1963 Dec. p. 35.

Gardner, Lytt I. DEPRIVATION DWARFISM, 1972 July p. 76. [1253] Gardner, Martin. LOGIC MACHINES, 1952 Mar. p. 68; FLEXAGONS, 1956 Dec. p. 162; CANTIME GO BACKWARD?, 1966 Jan. p. 98.

Garfield, Sidney R. THE DELIVERY OF MEDICAL CARE, 1970 Apr. p. 15.

Garner, H. F. RIVERS IN THE MAKING, 1966 Apr. p. 84.

Garwin, Richard L. Antisubmarine Warfare AND NATIONAL SECURITY, 1972 July p. 14. [345] Garwin, Richard L., and Hans A. Bethe, Anti-

BALLISTIC-MISSILE SYSTEMS, 1968 Mar. p. 21. Gaskin, A. J., P. J. Darragh and J. V. Sanders. OPALS, 1976 Apr. p. 84.

Gast, Paul W., Wilmot Hess, Robert Kovach and Gene Simmons, the exploration of the MOON, 1969 Oct. p. 54. [889]

Gates, David M. Heat transfer in plants, 1965 Dec. p. 76 [1029]; the flow of energy in the biosphere, 1971 Sept. p. 88. [664]

Gates, Marshall, ANALGESIC DRUGS, 1966 Nov. p. 131. [304]

Gaudin, A. M. SEPARATING SOLIDS WITH BUBBLES, 1956 Dec. p. 99.

Gauri, K. Lal the preservation of stone, 1978 June p. 126. [3012]

Gaut, Norman E., and Victor P. Starr. NEGATIVE VISCOSITY, 1970 July p. 72.

Gautier, T. N. THE IONOSPHERE, 1955 Sept. p. 126.

Gay, Helen. NUCLEAR CONTROL OF THE CELL, 1960 Jan. p. 126.

Gazzaniga, Michael S. the split brain in Man, 1967 Aug. p. 24. [508]

Geballe, T. H. NEW SUPERCONDUCTORS, 1971 Nov. p. 22.

Geesey, G. G., J. W. Costerton and K.-J. Cheng HOW BACTERIA STICK, 1978 Jan. p. 86. [1379] Gell-Mann, Murray, and E. P. Rosenbaum.

ELEMENTARY PARTICLES, 1957 July p. 72. [213]
Gell-Mann, Murray, Geoffrey F. Chew and
Arthur H. Rosenfeld. STRONGLY INTERACTING

Particles, 1964 Feb. p. 74. [296] Gerard, Ralph W. The Dynamics of Inhibition, 1948 Sept. p. 44; what is memory?, 1953 Sept.

p. 118. [11]
Gerbner, George. Communication and social environment, 1972 Sept. p. 152. [679]

German, James L., III, and A. G. Bearn. CHROMOSOMES AND DISEASE, 1961 Nov. p. 66. [150]

Germer, Lester H. THE STRUCTURE OF CRYSTAL SURFACES, 1965 Mar. p. 32.

Gershon-Cohen, Jacob, MEDICAL THERMOGRAPHY, 1966 Feb. p. 94.

Gerson, Samuel, and Ellen L. Bassuk DEINSTITUTIONALIZATION AND MENTAL HEALTH SERVICES, 1978 Feb. p. 46. [581]

Geschwind, Norman. Language and the BRAIN. 1972 Apr. p. 76. [1246] Gesell, Arnold. Infant vision, 1950 Feb. p. 20.

[401]
Gescow Alfred THE CHANGING HELLCOSTER

Gessow, Alfred. The Changing Helicopter. 1966 Apr. p. 38.

Gettens, Rutherford J. Science in the ART MUSEUM, 1952 July p. 22.

Ghiorso, Albert, and Glenn T. Scaborg. THE NEWEST SYNTHETIC ELEMENTS, 1956 Dec. p. 66. [243]

Ghirshman, R. THE ZIGGURAT OF TCHOGAZANBIL, 1961 Jan. p. 68.

Ghosh, A. K., and S. S. Hecker, the forming of sheet metal, 1976 Nov. p. 100.

Giacconi, Riccardo, x-ray stars, 1966 Dec. p. 36.

Giannini, Gabriel M. The Plasma Jet., 1957 Aug. p. 80; Electrical Propulsion in Space, 1961 Mar. p. 57.

*** .

Hayflick, Leonard HUMAN CELLS AND AGING, 1968 Mar p 32 [1103]

Haynes, C Vance, Jr ELEPHANT HUNTING IN NORTH AMERICA, 1966 June p 104 Haynes, Robert H, and Philip C Hanawalt THE

REPAIR OF DNA, 1967 Feb p 36

Hayward, Roger, Linus Pauling and Robert B Corey THE STRUCTURE OF PROTEIN MOLECULES, 1954 July p 51 [31]

Hazen, David C, and Rudolf F Lehnert Low SPEED FLIGHT, 1956 Apr p 46

Heady, Earl O THE AGRICULTURE OF THE US, 1976 Sept p 106

Heath, F G LARGE SCALE INTEGRATION IN ELECTRONICS, 1970 Feb p 22, ORIGINS OF THE BINARY CODE, 1972 Aug p 76

Hecker, S S, and A K Ghosh THE FORMING OF SHEET METAL, 1976 Nov p 100

Hediger, H ARE WILD ANIMALS IN CAPTIVITY REALLY WILD?, 1954 May p 76

Heeschen, D S RADIO GALAXIES, 1962 Mar p 41 (278)

Heezen, Bruce C THE ORIGIN OF SUBMARINE CANYONS, 1956 Aug p 36, THE RIFT IN THE OCEAN FLOOR, 1960 Oct p 98

Heezen, Bruce C, and Billy P Glass TEKTITES and geomagnetic reversals, 1967 July

Heezen, Bruce C, and Ian D MacGregor THE EVOLUTION OF THE PACIFIC, 1973 Nov p 102

Heilbrunn, L V CALCIUM AND LIFE, 1951 June p 60, heat death, 1954 Apr p 70 Heiles, Carl the STRUCTURE OF THE INTERSTELLAR MEDIUM, 1978 Jan p 74 [394]

Heilmeier, G H LIQUID CRYSTAL DISPLAY DEVICES, 1970 Apr p 100

Heimer, Lennart Pathways in the Brain, 1971 July p 48 [1227]

Heine-Geldern, Robert VANISHING CULTURES, 1957 May p 39

Heinrich, Bernd THE ENERGETICS OF THE BUMBLEBEE, 1973 Apr p 96 [1270]

Heinrich, Bernd, and George A Bartholomew TEMPERATURE CONTROL IN FLYING MOTHS, 1972 June p 70 [1252]

Heirtzler, J R, and W B Bryan THE FLOOR OF THE MID-ATLANTIC RIFT, 1975 Aug p 78 [918]

Heirtzler, James R THE LONGEST ELECTRO MAGNETIC WAVES, 1962 Mar p 128, SEA FLOOR SPREADING, 1968 Dec p 60 [875]

Heiskanen, Weikko A THE EARTH S GRAVITY, 1955 Sept p 164 [812]

Held, Richard PLASTICITY IN SENSORY MOTOR SYSTEMS, 1965 Nov p 84 [494]

Hellawell, A, and D D Double THE SOLIDIFICATION OF CEMENT, 1977 July p 82 [370]

Helm, E Eugene THE VIBRATING STRING OF THE PYTHAGOREANS, 1967 Dec p 92

Henderson, Donald A THE ERADICATION OF SMALLPOX, 1976 Oct p 25

Hendricks, Sterling B HOW LIGHT INTERACTS WITH LIVING MATTER, 1968 Sept p 174 Henisch, H K AMORPHOUS-SEMICONDUCTOR

SWITCHING, 1969 Nov p 30 Henry, George E ULTRASONICS, 1954 May p 54, RADIATION PRESSURE, 1957 June p 99

Herber, R. H MOSSBAULR SPECTROSCOPY, 1971 Oct p 86

Herbig, George H THE YOUNGEST STARS, 1967 Aug p 30 Herget, Paul, and John T Mengel TRACKING

SATELLITES BY RADIO, 1958 Jan p 23 Herget, Paul, Henry W Ryder and Harry Jay Carr FUTURE FERFORMANCE IN FOOTRACING, 1976 June p 109

Herman, Gabor T, Richard Gordon and Steven A Johnson image reconstruction from PROJECTIONS, 1975 Oct p 56

Herman, Robert, and Keith Gardels VEHICULAR TRAFFIC FLOW, 1963 Dec p 35

Heron, Woodburn THE PATHOLOGY OF BOREDOM, 1957 Jan p 52 [430] Herreshoff, Halsey C, and J N Newman THE STUDY OF SAILING YACHTS, 1966 Aug p 60

Herriott, Donald R APPLICATIONS OF LASER LIGHT, 1968 Sept р 140

Hersh, Reuben, and Martin Davis HILBERT'S 10TH PROBLEM, 1973 Nov p 84 NONSTANDARD ANALYSIS, 1972 June p 78

Hersh, Reuben, and Paul J Cohen NON CANTORIAN SET THEORY, 1967 Dec p 104

Hersh, Reuben, and Richard J Griego BROWNIAN MOTION AND POTENTIAL THEORY, 1969 Mar p 66

Hertz, David B, and Sandra Lloyd Lesser PEOPLE IN GROUPS, 1951 Feb p 26

Herwitz, Paul S THE THEORY OF NUMBERS, 1951 July p 52

Herzenberg, Leonord A, Richard G Sweet and Leonore A Herzenberg FLUORESCENCE ACTIVATED CELL SORTING, 1976 Mar p 108

Herzfeld, Charles M, and Arnold M Bass frozen free radicals, 1957 Mar p 90 [263]

Heslop-Harrison, Yolande CARNIVOROUS PLANTS, 1978 Feb p 104 [1382]

Hess, Eckhard H SPACE PERCEPTION IN THE CHICK, 1956 July p 71, IMPRINTING IN ANIMALS, 1958 Mar p 81 [416], SHADOWS AND DEPTH PERCEPTION, 1961 Mar p 138, ATTITUDE AND PUPIL SIZE, 1965 Apr p 46 [493] IMPRINTING IN A NATURAL LABORATORY, 1972 Aug p 24 [546], THE ROLE OF PUPIL SIZE IN COMMUNICATION, 1975 Nov p 110 [567]

Hess, Felix the aerodynamics of BOOMERANGS, 1968 Nov p 124

Hess, Wilmot, Robert Kovach, Paul W Gast and Gene Simmons THE EXPLORATION OF THE MOON, 1969 Oct p 54 [889]

Hewes, Gordon W THE ANTHROPOLOGY OF POSTURE, 1957 Feb p 122

Hewish, Antony Pulsars, 1968 Oct p 25 Hibbs, Albert R THE SURFACE OF THE MOON,

1967 Mar p 60 Hickling, Charles F THE CULTIVATION OF TILAPIA, 1963 May p 143

Hide, Raymond JUPITER'S GREAT RED SPOT, 1968

Feb p 74 Hildebrand, Milton How ANIMALS RUN, 1960

May p 148 Hill, R D resonance particles, 1963 Jan D 38 [290]

Hilleman, Maurice R, and Alfred A Tytell тне INDUCTION OF INTERFERON, 1971 July p 26 [1226]

Hiller, Lejaren A, Jr COMPUTER MUSIC, 1959 Dec p 109

Himwich, Harold E THE NEW PSYCHIATRIC DRUGS, 1955 Oct p 80

Hinkle, Peter C, and Richard E McCarthy HOW CELLS MAKE ATP, 1978 Mar p 104 [1383] Hinton, Sir Christopher ATOMIC POWER IN BRITAIN, 1958 Mar p 29

Hinton, H E. INSECT EGGSHELLS, 1970 Aug p 84 [1187]

Hirschhorn, Norbert, and William B Greenough III CHOLERA, 1971 Aug p 15 Hittinger, William C METAL ONIDE SEMICONDUCTOR TECHNOLOGY, 1973 Aug.

Hittinger, William C, and Morgan Sparks MICROELLCTRONICS, 1965 Nov p 56

Hoagland, Hudson SCHIZOPHRENIA AND STRESS, 1949 July p 44

Hoagland, Mahlon B NUCLEIC ACIDS AND PROTEINS, 1959 Dec p 55

Hoare, James P, and LaBoda, Mitchell A ELECTROCHEMICAL MACHINING, 1974 Jan p 30

Hock, Raymond J THE PHYSIOLOGY OF HIGH ALTITUDE, 1970 Feb p 52 [1168]

Hock, Raymond J, and Benjamin G Covino нуротнегміа, 1958 Маг р 104

Hockett, Charles F THE ORIGIN OF SPEECH, 1960 Sept p 88 [603] Hocking, Brian INSECT FLIGHT, 1958 Dec p 92

Hodge, Paul W DWARF GALAXIES, 1964 May

Hodges, David A MICROELECTRONIC MEMORIES, 1977 Sept p 130 [378]

Hodgson, Edward S TASTE RECEPTORS, 1961 May p 135

Hodgson, Harlow J Forage Crops, 1976 Feb

Hoffenberg, Marvin, and Wassily W Leontief THE ECONOMIC EFFECTS OF DISARMAMENT, 1961 Apr p 47 [611]

Hoffman, George A THE ELECTRICAL AUTOMOBILE, 1966 Oct p 34

Hoffman, James I, and Lawrence M Kushner SYNTHETIC DETERGENTS, 1951 Oct p 26

Hoffmann, Banesh THE INFLUENCE OF ALBERT EINSTEIN, 1949 Mar p 52, SHAKESPEARE THE PHYSICIST, 1951 Apr p 52

Hofstadter, Robert THE ATOMIC NUCLEUS, 1956 July p 55 [217]

Hogan, C Lester FERRITES, 1960 June p 92 Hogerton, John F THE ARRIVAL OF NUCLEAR POWER, 1968 Feb p 21

Hohn, E Otto the phalarope 1969 June p 104

[1146] Hokin, Lowell E, and Mabel R THE CHEMISTRY OF CELL MEMBRAN ES, 1965 Oct p 78 [1022]

Holden, John C, and Robert S Dietz THE BREAKUP OF PANGAEA, 1970 Oct p 30 [892]

Hollaender, Alexander, and George E Stapleton IONIZING RADIATION AND THE LIVING CELL, 1959 Sept p 94 Holland, John J SLOW INAPPARENT AND

RECURRENT VIRUSES, 1974 Feb p 32 [1289] Hollander, Willard F LETHAL HEREDITY, 1952

July p 58 Holldobler, Berthold K. COMMUNICATION

BETWEEN ANTS AND THEIR GUESTS, 1971 Mar p 86 [1218]

Holldobler, Berthold K, and Edward O Wilson WEAVER ANTS, 1977 Dec p 146 [1373] Holley, Robert W THE NUCLEOTIDE SEQUENCE OF

A NUCLEIC ACID, 1966 Feb p 30 [1033] Holliday, Leslie EARLY VIEWS ON FORCES BETWEEN ATOMS, 1970 May p 116

Hollinger, F Blaine, Joseph L Melnick and Gordon R. Dreesman VIRAL HEPATITIS, 1977 July p 44 [1365]

Hollomon, J Herbert THEUS PATENT SYSTEM, 1967 June p 19

Holloway, James K WEED CONTROL BY INSECT, 1957 July p 56

Holloway, Ralph L THE CASTS OF FOSSIL HOMINID BRAINS, 1974 July p 106 [686] Holmes, Richard T, James R. Gosz, Gene E.

Likens and F Herbert Bormann THE FLOW OF ENERGY IN A FOREST ECOSYSTEM, 1978 Mar p 92 [1384]

Holt, S J THE FOOD RESOURCES OF THE OCEAN, 1969 Sept p 178 [886] Holter, Heinz How THINGS GET INTO CELLS. 1961

Sept p 167 [96]

Greene, Harry S N on the development of CANCER, 1948 Dec. p. 40

Greenewalt, Crawford H HOW BIRDS SING, 1969 Nov p 126 [1162]

Greengard, Paul, and James A Nathanson SECOND MESSENGERS IN THE BRAIN, 1977 Aug p 108 [1368]

Greenough, William B, III, and Norbert Hirschhorn Cholera, 1971 Aug p 15

Greenstein, Jesse L dying stars, 1959 Jan p 46 [216], quasi stellar radio sources, 1963 Dec p 54

Greenwood, Ted RECONNAISSANCE AND ARMS CONTROL, 1973 Feb p 14 [346]

Gregg, Alan DOCTORS, 1951 Sept p 79

Gregg, Michael C THE MICROSTRUCTURE OF THE OCEAN, 1973 Feb p 64 [905]

Gregory, Derek P THE HYDROGEN ECONOMY, 1973 Jan p 13

Gregory, Richard L VISUAL ILLUSIONS, 1968 Nov p 66 [517]

Greulach, Victor A the rise of water in plants, 1952 Oct p 78, plant movements, 1955 Feb p 100

Griego, Richard J, and Reuben Hersh BROWNIAN MOTION AND POTENTIAL THEORY, 1969 Mar p 66

Griffin, Donald R THE NAVIGATION OF BIRDS, 1948 Dec p 18, THE NAVIGATION OF BATS, 1950 Aug p 52, BIRD SONAR, 1954 Mar p 78, MORE ABOUT BAT RADAR, 1958 July p 40 [1121]

Grinspoon, Lester Marihuana, 1969 Dec p 17 [524]

Grobstein, Clifford THE RECOMBINANT DNA DEBATE, 1977 July p 22 [1362]

Grodzins, Morton METROPOLITAN SEGREGATION, 1957 Oct p 33

Gross, Jerome Collagen, 1961 May p 120 Grossman, Lawrence the most primitive

OBJECTS IN THE SOLAR SYSTEM, 1975 Feb p 30 Grossweiner, Leonard I flash photolysis, 1960 May p 134

Groth, Edward J, P James E Peebles, Michael Seldner and Raymond M Soneira THE CLUSTERING OF GALAXIES, 1977 Nov p 76 [390]

[390]
Gruenberg, Ernest M THE EPIDEMIOLOGY OF
MENTAL DISEASE, 1954 Mar p 38 [441]
Grundfest, Harry ELECTRIC FISHES, 1960 Oct

p 115 Guhl, A M the social order of chickens, 1956 Feb p 42 [471]

Guillemin, Roger, and Roger Burgus the HORMONES OF THE HYPOTHALAMUS, 1972 NOV p 24 [1260]

Guillery, R W VISUAL PATHWAYS IN ALBINOS, 1974 May p 44 [1294]

Gumpert, Martin vesalius discoverer of the Human Body, 1948 May p 24, HISTOPLASMOSIS THE UNKNOWN INFECTION,

1948 June p 12
Gunn, James E, J Richard Gott III, David N
Schramm and Beatrice M Tinsley will the
UNIVERSE EXPAND FOREVER?, 1976 Mar p 62

Gurdon, J B TRANSPLANTED NUCLEI AND CELL
DIFFERENTIATION, 1968 Dec p 24 [1128]

Gurin, Gerald, Warren E. Miller and Angus Campbell Television and the election, 1953 May p 46, the electoral switch of 1952, 1954 May p 31

Gursky, Herbert, and Edward P J van den Heuvel x ray Emitting Doublestars, 1975 Mar p 24

Guttman, Norman, and Harry I Kalish EXPERIMENTS IN DISCRIMINATION, 1958 Jan p. 77 [403] Guyer, Robert A, and Bernard Bertman solid HELIUM, 1966 Aug p 84

H

Haag, William G THE BERING STRAIT LAND BRIDGE, 1962 Jan p 112

Haagen-Smit, A J SMELL AND TASTE, 1952 Mar p 28 [404], ESSENTIAL OILS, 1953 Aug p 70, THE CONTROL OF AIR POLLUTION, 1964 Jan p 24 [618]

Haber, Fritz the Heat Barrier, 1953 Dec p 80 Haber, Heinz the Human Body in Space, 1951 Jan p 16, FLIGHT ATTHE BORDERS OF SPACE, 1952 Feb p 20

Haber, Ralph Norman eidetic images, 1969 Apr p 36 [522], how we remember what we see, 1970 May p 104 [528]

Hadorn, Ernst fractionating the fruit fly, 1962 Apr p 100 [1166],

TRANSDETERMINATION IN CELLS, 1968 Nov p 110 [1127]

Haecock, R. L., H. M. Schurmeier and A. E. Wolfe the ranger missions to the moon, 1966 Jan p. 52

Haensel, Vladimir, and Robert L Burwell, Jr CATALYSIS, 1971 Dec p 46

Haerendel, Gerhard, and Reimar Lust ARTIFICIAL PLASMA CLOUDS IN SPACE, 1968 Nov p 80

Hafstad, Lawrence R REACTORS, 1951 Apr p 43

Hahn, Hans is there an infinity?, 1952 Nov p 76, geometry and intuition, 1954 Apr p 84

Hahn, Otto the discovery of fission, 1958 Feb p 76

Hailman, Jack P HOW AN INSTINCT IS LEARNED, 1969 Dec p 98 [1165]

Haken, Wolfgang, and Kenneth Appel THE SOLUTION OF THE FOUR COLOR MAP PROBLEM, 1977 Oct p 108 [387]

Hall, Calvin S WHAT PEOPLE DREAM ABOUT, 1951 May p 60

Hall, Edward T, Jr the anthropology of manners, 1955 Apr p 84

Hall, F Keith wood Pulp, 1974 Apr p 52 Hall, H Tracy ultrahigh pressures, 1959 Nov p 61

Hall, Marie Boas Robert Boyle, 1967 Aug p 96

Hall, Robert A, Jr PIDGIN LANGUAGES, 1959 Feb p 124

Hallam, A CONTINENTAL DRIFT AND THE FOSSIL RECORD, 1972 NOV p 56 [903], ALFRED WEGENER AND THE HYPOTHESIS OF CONTINENTAL DRIFT, 1975 Feb p 88

Halmos, Paul R NICOLAS BOURBARI, 1957 May p 88, INNOVATION IN MATHEMATICS, 1958 Sept p 66

Hamilton, William F , II, and Dana K Nance systems analysis of urban transportation, 1969 July p 19

Hammon, William McD encephalitis, 1949 Sept p 18, GAMMA GLOBULIN IN POLIO, 1953 July p 25

Hammond, E Cuyler THE EFFECTS OF SMOKING, 1962 July p 39

Hammond, Norman The Planning OF A MAYA CEREMONIAL CENTER, 1972 May p 82, THE EARLIEST MAYA, 1977 Mar p 116 [1355] Hanawalt, Philip C., and Robert H. Haynes, The

REPAIR OF DNA, 1967 Feb p 36 Hanfmann, George M A. EXCAVATIONS AT SARDIS, 1961 June p 124 Hannah-Alava, Aloha GENETIC MOSAICS, 1960 May p 118

Harary, Isaac HEART CELLS IN VITRO, 1962 May p 141

Harbison, Frederick EDUCATION FOR DEVELOPMENT, 1963 Sept p 140

Harlan, Jack R THE PLANTS AND ANIMALS THAT NOURISH MAN, 1976 Sept p 88 Harland, W Brian, and Martin J S Rudwick

THE GREAT INFRA CAMBRIAN ICE AGE, 1964
Aug p 28

Harlow, Francis H, and Jacob E Fromm
COMPUTER EXPERIMENTS IN FLUID DYNAMICS
1965 Mar p 104

Harlow, Harry F LOVE IN INFANT MONKEYS, 1959 June p 68 [429]

Harlow, Harry F, and Margaret Kuenne Harlow Learning to think, 1949 Aug p 36 [415], social deprivation in Monkeys, 1962 Nov p 136 [473]

Harmon, Leon D THE RECOGNITION OF FACES, 1973 Nov p 70 [555]

Harpstead, Dale D HIGH LYSINE CORN, 1971 Aug p 34 [1229]

Harris, Charles S, and Irvin Rock vision and Touch, 1967 May p 96 [507]

Harris, John F, and R Igor Gamow the Infrared receptors of snakes, 1973 May p 94 [1272]

Harns, John R THE RISE OF COAL TECHNOLOGY 1974 Aug p 92

Harris, William F Disclinations, 1977 Dec p 130 [393]

Hartline, H. K., William H. Miller and Floyd Ratliff HOW CELLS RECEIVE STIMULI, 1961 Sept p. 222 [99]

Hartman, Carl G PLAYING POSSUM, 1950 Jan p 52

Hartmann, Sven R PHOTON ECHOES, 1968 Apr p 32

Hartmann, William K the smaller bodies of the solar system, 1975 Sept p 142, cratering in the solar system, 1977 Jan p 84 [351]

Hartsell, S. E., and Robert F. Acker FLEMINGS LYSOZYME, 1960 June p. 132

Harvey, E Newton the Luminescence of Living things, 1948 May p 46

Hasler, Arthur D, and James A Larsen the HOMING SALMON, 1955 Aug p 72 [411] Hatzakis, M, and A N Broers MICROCIRCUITS

BY ELECTRON BEAM, 1972 Nov p 34
Hauser, Philip M THE CENSUS, 1951 Apr p 15,
THE CENSUS OF 1960, 1961 July p 39, MORE

THE CENSUS OF 1960, 1961 July p 39, MORE FROM THE CENSUS OF 1960, 1962 Oct p 30, THE CENSUS OF 1970, 1971 July p 17

Hawkes, Jacquetta STONEHENGE, 1953 June p 25

Hawking, Frank filariasis, 1958 July p 94, THE CLOCK OF THE MALARIA PARASITE, 1970 June p 123

Hawking, S W THE QUANTUM MECHANICS OF BLACK HOLES, 1977 Jan p 34 [349] Hawkins, David Mathematical Sieves, 1958 Dec p 105

Hayashi, Izuo, and Morton B Panish a New Class of Diode Lasers, 1971 July p 32. Hayashi, Teru How Cells Movi, 1961 Sept

Hayashi, Teru How Cells Movi, 1961 Sept p 184 [97] Hayashi, Feru, and George A. W. Boehm ARTIFICIAL MUSCLE, 1952 Dec. p 18

Hayden, H. W., R. C. Gibson and J. H. Brophy SUPERPLASTIC METALS, 1969 Mar. p. 26 Hayes, Thomas L., and Thomas E. Everhart THE SCANNING FLECTRON MICROLOPE, 1972 Jan. p. 54 Hayflick, Leonard Human Cells and aging, 1968 Mar p 32 [1103]

Haynes, C Vance, Jr elephant hunting in North America, 1966 June p 104

Haynes, Robert H, and Philip C Hanawalt THE REPAIR OF DNA, 1967 Feb p 36

Hayward, Roger, Linus Pauling and Robert B Corey the structure of protein molecules, 1954 July p 51 [31]

1954 July p 51 [31] Hazen, David C, and Rudolf F Lehnert Low SPEED FLIGHT, 1956 Apr p 46

Heady, Earl O THE AGRICULTURE OF THE US, 1976 Sept p 106

Heath, F G Large scale integration in electronics, 1970 Feb p 22, origins of the binary code, 1972 Aug p 76

Hecker, S. S., and A. K. Ghosh the forming of SHEET METAL, 1976 Nov. p. 100

Hediger, H ARE WILD ANIMALS IN CAPTIVITY
REALLY WILD, 1954 May p 76
Heechen D. G.

Heeschen, D S RADIO GALAXIES, 1962 Mar p 41 [278]

Heezen, Bruce C the origin of submarine canyons, 1956 Aug p 36, the rift in the ocean floor, 1960 Oct p 98

Heezen, Bruce C, and Billy P Glass tektites AND GEOMAGNETIC REVERSALS, 1967 July P 32

Heezen, Bruce C, and Ian D MacGregor THE EVOLUTION OF THE PACIFIC, 1973 Nov p 102 [911]

Heilbrunn, L. V. CALCIUM AND LIFE, 1951 June p. 60, HEAT DEATH, 1954 Apr. p. 70

Heiles, Carl the STRUCTURE OF THE
INTERSTELLAR MEDIUM, 1978 Jan p 74 [394]
Heilmeier, G. H. LIQUID CONTROL STRUCTURE

Heilmeier, G H LIQUID-CRYSTAL DISPLAY
DEVICES, 1970 Apr p 100
Heilmer I appear

Heimer, Lennart Pathways in the Brain, 1971 July p 48 [1227]

Heine Geldern, Robert vanishing cultures, 1957 May p 39

Heinrich, Bernd the energetics of the Bumblebee, 1973 Apr p 96 [1270]

Heinrich, Bernd, and George A Bartholomew TEMPERATURE CONTROL IN FLYING MOTHS, 1972 June p 70 [1252]

Hertzler, J. R., and W. B. Bryan THE FLOOR OF THE MID-ATLANTIC RIFT, 1975 Aug. p. 78 [918] Heitzler, James P.

Heitzler, James R THE LONGEST ELECTRO-MAGNETIC WAVES, 1962 Mar p 128, SEA FLOOR SPREADING, 1968 Dec p 60 [875] Heiskapen Walth

Heiskanen, Weikko A THE EARTH'S GRAVITY, 1955 Sept p 164 [812]

Held, Richard Plasticity in Sensory Motor Systems, 1965 Nov p 84 [494] Hellawell, A., and D. D. Double the SQUDIFICATION OF THE SOURCEST THE

SOLIDIFICATION OF CEMENT, 1977 July p 82 [370]
Helm, E. Eugene Tils und a

Helm, E. Eugene THE VIBRATING STRING OF THE
PYTHAGOREANS, 1967 Dec p 92
Henderson Does 14

Henderson, Donald A THE ERADICATION OF SMALLPOX, 1976 Oct p 25 Hendricks Steal

Hendricks, Sterling B How Light Interacts With Living Matter, 1968 Sept p 174 Henisch, H K. Amorphous-semiconductor Switching, 1969 Nov p 30

Henry, George E ultrasonics, 1954 May p 54, RADIATION PRESSURE, 1957 June p 99 Herber, R. H. MOSSBAUER SPECTROSCOP1, 1971 Out p 86

Herbig, George H THE YOUNGEST STARS, 1967

Herset, Paul, and John T. Mengel TRACKING
ANTILLITES BY RADIO 1958 Jan p 23
Herset, Paul, Henry W. Ryder and Harry Jay
Carl Illiar Herformance in Footracing
1976 June p 109

Herman, Gabor T, Richard Gordon and Steven A Johnson image reconstruction from PROJECTIONS, 1975 Oct p 56

Herman, Robert, and Keith Gardels Vehicular TRAFFIC FLOW, 1963 Dec p 35

Heron, Woodburn THE PATHOLOGY OF BOREDOM, 1957 Jan p 52 [430]

Herreshoff, Halsey C, and J N Newman THE STUDY OF SAILING YACHTS, 1966 Aug p 60

Herriott, Donald R Applications of Laser LIGHT, 1968 Sept p 140

Hersh, Reuben, and Martin Davis Hilbert's 10TH PROBLEM, 1973 Nov p 84 NONSTANDARD ANALYSIS, 1972 June p 78

Hersh, Reuben, and Paul J Cohen Non CANTORIAN SET THEORY, 1967 Dec p 104 Hersh, Reuben, and Richard J Griego BROWNIAN MOTION AND POTENTIAL THEORY, 1969 Mar p 66

Hertz, David B, and Sandra Lloyd Lesser PEOPLE IN GROUPS, 1951 Feb p 26

Herwitz, Paul S THE THEORY OF NUMBERS, 1951 July p 52

Herzenberg, Leonord A, Richard G Sweet and Leonore A Herzenberg Fluorescence ACTIVATED CELL SORTING, 1976 Mar p 108

Herzfeld, Charles M, and Amold M Bass FROZEN FREE RADICALS, 1957 Mar p 90 [263] Heslan-Hartsen, Volanda Canayarana

Heslop-Harrison, Yolande CARNIVOROUS
PLANTS, 1978 Feb p 104 [1382]
Hess Febbard H. Gregor States and States an

Hess, Eckhard H space perception in the chick, 1956 July p 71, "imprinting in animals, 1958 Mar p 81 [416], shadows and depth perception, 1961 Mar p 138, attitude and pupil size, 1965 Apr p 46 [493] "imprinting in a natural laboratory, 1972 Aug p 24 [546], the role of pupil size in communication, 1975 Nov p 110 [567]

Hess, Felix the aerodynamics of Boomerangs, 1968 Nov p 124

Hess, Wilmot, Robert Kovach, Paul W Gast and Gene Simmons THE EXPLORATION OF THE MOON, 1969 Oct p 54 [889]

Hewes, Gordon W THE ANTHROPOLOGY OF POSTURE, 1957 Feb p 122

Hewish, Antony pulsars, 1968 Oct p 25 Hibbs, Albert R the surface of the moon, 1967 Mar p 60

Hickling, Charles F THE CULTIVATION OF TILAPIA, 1963 May p 143

Hide, Raymond JUPITER'S GREAT RED SPOT, 1968 Feb p 74

Hildebrand, Milton How Animals Run, 1960 May p 148

Hill, R D resonance particles, 1963 Jan p 38 [290]

Hilleman, Maurice R, and Alfred A. Tytell the INDUCTION OF INTERFERON, 1971 July p. 26 [1226]

Hiller, Lejaren A Jr Computer Music, 1959
Dec p 109

Himwich, Harold E. THE NEW PSYCHIATRIC DRUGS, 1955 Oct p 80

Hinkle, Peter C, and Richard E. McCarthy HOW CELLS MAKE ATP, 1978 Mar. p. 104 [1383] Hinton, Sir Christopher Atomic Power in Britain, 1958 Mar. p. 29

Hinton, H E INSECT EGGSHELLS, 1970 Aug p 84 [1187]

Hirschhorn, Norbert, and William B Greenough III CHOLERA, 1971 Aug. p 15 Hitunger, William C METAL ONDE SEMICONDUCTOR TECHNOLOGY, 1973 Aug.

Hittinger, William C, and Morgan Sparks MICROELECTRONICS, 1965 Nov p 56

Hoagland, Hudson schizophrenia and stress, 1949 July p 44

Hoagland, Mahlon B NUCLEIC ACIDS AND PROTEINS, 1959 Dec p 55

Hoare, James P., and LaBoda, Mitchell A ELECTROCHEMICAL MACHINING, 1974 Jan p 30

Hock, Raymond J THE PHYSIOLOGY OF HIGH ALTITUDE, 1970 Feb p 52 [1168]

Hock, Raymond J, and Benjamin G Covino HYPOTHERMIA, 1958 Mar p 104 Hockett, Charles F THE ORIGIN OF SPEECH, 1960

Sept p 88 [603] Hocking, Brian Insect Flight, 1958 Dec p 92 Hodge, Paul W DWARF GALAXIES, 1964 May

p 78
Hodges, David A MICROELECTRONIC MEMORIES, 1977 Sept p 130 [378]

Hodgson, Edward S TASTE RECEPTORS, 1961 May p 135

Hodgson, Harlow J FORAGE CROPS, 1976 Feb p 60

Hoffenberg, Marvin, and Wassily W Leontief THE ECONOMIC EFFECTS OF DISARMAMENT, 1961 Apr p 47 [611]

Hoffman, George A THE ELECTRICAL AUTOMOBILE, 1966 Oct p 34

Hoffman, James I, and Lawrence M Kushner SYNTHETIC DETERGENTS, 1951 Oct p 26

Hoffmann, Banesh the INFLUENCE OF ALBERT EINSTEIN, 1949 Mar p 52, SHAKESPEARE THE PHYSICIST, 1951 Apr p 52

Hofstadter, Robert THE ATOMIC NUCLEUS, 1956 July p 55 [217]

Hogan, C Lesier ferrites, 1960 June p 92 Hogerton, John F the arrival of nuclear Power, 1968 Feb p 21

Hohn, E Otto THE PHALAROPE 1969 June p 104

Hokin, Lowell E, and Mabel R THE CHEMISTRY OF CELL MEMBRAN ES, 1965 Oct p 78 [1022] Holden, John C, and Robert S Dietz. THE BREAKUP OF PANGAEA, 1970 Oct p 30 [892]

Hollaender, Alexander, and George E Stapleton IONIZING RADIATION AND THE LIVING CELL, 1959 Sept p 94

Holland, John J slow inapparent and recurrent viruses, 1974 Feb p 32 [1289] Hollander, Willard F Lethal Heredity, 1952 July p 58

Holldobler, Berthold K. Communication BETWEEN ANTS AND THEIR GUESTS, 1971 Mar p. 86 [1218]

Holldobler, Berthold K, and Edward O Wilson WEAVER ANTS, 1977 Dec p 146 [1373] Holley, Robert W THE NUCLEOTIDE SEQUENCE OF

Holliday, Leslie Early views on Forces
BETWEEN ATOMS, 1970 May p 116

Hollinger, F. Blaine, Joseph L. Melnick and Gordon R. Dreesman VIRAL HEPATITIS, 1977 July p. 44 [1365]

Hollomon, J Herbert THE US PATENT SYSTEM,
1967 June p 19
Hollow J. Jan. 19

Holloway, James K WEED CONTROL BY INSECT.
1957 July p 56
Holloway, Poles t

Holloway, Raiph L THE CASTS OF FOSSIL HOMINID BRAINS, 1974 July p 106 [686] Holmes, Richard T., James R Gosz, Gene E. Likens and F. Herbert Rossey

Likens and F Herbert Bormann the Flow of ENERGY IN A FOREST ECOSYSTEM, 1978 Mar p 92 [1384] Holt, S J THE FOOD RESOURCES OF THE OCEAN,

1969 Sept p 178 [886]
Holter, Heinz How things get into cells, 1961
Sept p 167 [96]

- Holton, William C. THE LARGE-SCALE INTEGRATION OF MICROELECTRONIC CIRCUITS, 1977 Sept. p. 82. [376]
- Hong, Suk Ki, and Hermann Rahn. The diving WOMEN OF KOREA AND JAPAN, 1967 May p. 34. [1072]
- Hood, M. S. F. THE TARTARIA TABLETS, 1968 May p. 30.
- Hope-Taylor, Brian. NORMAN CASTLES, 1958 Mar. p. 42.
- Hopper, W. David. THE DEVELOPMENT OF AGRICULTURE IN DEVELOPING COUNTRIES, 1976 Sept. p. 196.
- Horn, Henry S. FOREST SUCCESSION, 1975 May p. 90. [1321]
- Horne, R. W. THE STRUCTURE OF VIRUSES, 1963 Jan. p. 48.
- Horowitz, Norman H. The Gene, 1956 Oct. p. 78 [17]; The SEARCH FOR LIFE ON MARS, 1977 Nov. p. 52. [389]
- Horridge, G. Adrian. THE COMPOUND EYE OF INSECTS, 1977 July p. 108. [1364]
- Hossli, Walter. STEAM TURBINES, 1969 Apr. p. 100.
- Hotchkiss, Rollin D., and Esther Weiss. TRANSFORMED BACTERIA, 1956 Nov. p. 48. [18] Hovanitz, William. INSECTS AND PLANT GALLS,
- 1959 Nov. p. 151. Howard, Richard A. Captain bligh and the BREADFRUIT, 1953 Mar. p. 88.
- Howard, Robert. THE ROTATION OF THE SUN, 1975 Apr. p. 106.
- Howard, Thomas E. RAPID EXCAVATION, 1967 Nov. p. 74.
- Howard-Jones, Norman. THE ORIGINS OF HYPODERMIC MEDICATION, 1971 Jan. p. 96.
- Howell, F. Clark. ISIMILA A PALEOLITHIC SITE IN AFRICA, 1961 Oct. p. 118.
- Howells, William W. THE DISTRIBUTION OF MAN, 1960 Sept. p. 112 [604]; HOMO ERECTUS, 1966 Nov. p. 46. [630]
- Hoy, Ronald R., and David Bentley. THE NEUROBIOLOGY OF CRICKET SONG, 1974 Aug. p. 34. [1302]
- Hoyle, Fred. ultrahigh temperatures, 1954 Sept. p. 144; the steady-state universe, 1956 Sept. p. 157.
- Hoyle, Fred, and Geoffrey Burbidge. ANTI-MATTER, 1958 Apr. p. 34; THE PROBLEM OF THE QUASI-STELLAR OBJECTS, 1966 Dec. p. 40. [305]
- Hoyle, Graham. THE LEAP OF THE GRASSHOPPER, 1958 Jan. p. 30; How is Muscle Turned on AND OFF?, 1970 Apr. p. 84. [1175]
- Hsu, Kenneth J. when the mediterranean dried up, 1972 Dec. p. 26 [904]; when the black sea was drained, 1978 May p. 52. [932]
- Huang, Su-Shu. Life outside the solar system, 1960 Apr. p. 55.
- Hubbard, Ruth, and Allen Kropf, Molecular ISOMERS IN VISION, 1967 June p. 64. [1075]
- Hubbert, M. King. THE ENERGY RESOURCES OF THE EARTH, 1971 Sept. p. 60. [663]
- Hubble, Edwin P. Five historic photographs from Palonar, 1949 Nov. p. 32.
- Hubel, David H. THE VISUAL CORTEX OF THE BRAIN, 1963 Nov. p. 54. [168]
- Hudson, Jack W., and George A. Bartholomew. DESERT GROUND SQUIRRELS, 1961 Nov. p. 107.
- Hudswell, F., and J. M. Fletcher, GENEVA CHEMISTRY, 1955 Oct. p. 34.
- Hughes, Donald J. The NUCLEAR REACTOR AS A RESEARCHINSTRUMENT, 1953 Aug. p. 23 [219]; INTERNATIONAL COOPERATION IN NUCLEAR FOWER, 1955 Apr. p. 31.
- Hughes, Vernon W. THE MUONICM ATOM, 1906 Apr. p. 93.

- Hull, Barbara E., and L. Andrew Staehelin.
 JUNCTIONS BETWEEN LIVING CELLS, 1978 May
 p. 140. [1388]
- Hull, David, and Michael J. R. Dawkins. THE PRODUCTION OF HEAT BY FAT, 1965 Aug. p. 62. Hulse, Joseph H., and David Spurgeon.
- TRITICALE, 1974 Aug. p. 72.
- Humphrey, John H., and John Griffiths Pedley ROMAN CARTHAGE, 1978 Jan. p. 110. [704]
- Humphrey, Paul A. THE VOYAGE OF THE ATKA, 1955 Sept. p. 50. Hundhausen, A. J., and J. T. Gosling. WAVES IN
- THE SOLAR WIND, 1977 Mar. p. 36. [1353] Hunt, R. Kevin, and Marcus Jacobson. THE ORIGINS OF NERVE-CELL SPECIFICITY, 1973 Feb. p. 26. [1265]
- Hunten, Donald M. THE OUTER PLANETS, 1975 Sept. p. 130.
- Hunter, Richard, and Ida Macalpine. PORPHYRIA AND KING GEORGE III, 1969 July p. 38. [1149]
- Hurley, Patrick M. RADIOACTIVITY AND TIME, 1949 Aug. p. 48; THE CONFIRMATION OF CONTINENTAL DRIFT, 1968 Apr. p. 52. [874]
- Hurwicz, Leonid. GAME THEORY AND DECISIONS, 1955 Feb. p. 78.
- Hurwitz, Jerard, and J. J. Furth. Messenger RNA, 1962 Feb. p. 41. [119]
- Hutchins, Carleen Maley. THE PHYSICS OF VIOLINS, 1962 Nov. p. 78.
- Hutchinson, G. Evelyn. THE BIOSPHERE, 1970 Sept. p. 44. [1188]
- Hutner, S. H., and John J. A. McLaughlin. POISONOUS TIDES, 1958 Aug. p. 92.
- Huxley, H. E. THE CONTRACTION OF MUSCLE, 1958 Nov. p. 66 [19]; THE MECHANISM OF MUSCULAR CONTRACTION, 1965 Dec. p. 18. [1026]
- Huxley, Julian. WORLD POPULATION, 1956 Mar. p. 64. [616]
- Hydén, Holger. SATELLITE CELLS IN THE NERVOUS SYSTEM, 1961 Dec. p. 62. [134]
- Hyman, Herbert H., and Paul B. Sheatsley.
 ATTITUDES TOWARD DESEGREGATION, 1956
 Dec. p. 35; ATTITUDES TOWARD
- DESEGREGATION, 1964 July p. 16. [623] Hynek, J. Allen, and Fred L. Whipple. OBSERVATIONS OF SATELLITE 1, 1957 Dec. p. 37

1

- Iben, Icko, Jr. Globular-Cluster stars, 1970 July p. 26.
- Ickx, Jacques. THE GREAT AUTOMOBILE RACE OF 1895, 1972 May p. 102.
- Idso, Sherwood B. DUST STORMS, 1976 Oct. p. 108.
- Idyll, C. P. THE ANCHOVY CRISIS, 1973 June p. 22. [1273]
- Infeld, Leopold, visit to dublin, 1949 Oct. p. 11; visit to england, 1949 Nov. p. 40;
- VISIT TO POLAND, 1949 Dec. p. 40. Ingalls, Albert G. a night on palomar, 1948 Aug. p. 12; ruling engines, 1952 June p. 45.
- Ingalls, Theodore H. Mongolism, 1952 Feb. p. 60; the strange case of the blind babbles, 1955 Dec. p. 40; congenital deformities, 1957 Oct. p. 109.
- Ingersoll, Andrew P. THE METERICAGE OF JUPITER, 1976 Mar. p. 46.
- Ingham, M. F. THE SPECTRUM OF THE ARGUON, 1972 Jan. p. 73.
- Ingle, Robert M. The LIFE OF AN ISTUARY, 1954 May p. 64.

- Ingram, Marylou, and Kendall Preston, Jr.
 AUTOMATIC ANALYSIS OF BLOOD CELLS, 1970
 Nov. p. 72.
- Ingram, Vernon M. HOW DO GENES ACT?, 1958 Jan. p. 68.
- Inose, Hiroshi. Communication Networks, 1972 Sept. p. 116.
- Inoué, Shinya, and Kayo Okazaki. BIOCRYSTALS, 1977 Apr. p. 82. [1357]
- Irving, Laurence. ADAPTATIONS TO COLD, 1966 Jan. p. 94. [1032]
- Irwin, Howard S. THE HISTORY OF THE AIRFLOW CAR, 1977 Aug. p. 98. [697]
- Irwin, Howard S., and Thomas S. Elias. URBAN TREES, 1976 Nov. p. 110.
- Irwin, Orvis C. Infant speech, 1949 Sept. p. 22. [417]
- Isaac, Glynn the food-sharing behavior of Protohuman hominids, 1978 Apr. p. 90. [706] Isaacs, Alick interferon, 1961 May p. 51 [87];
- FOREIGN NUCLEIC ACIDS, 1963 Oct. p. 46. [166] Isaacs, John D. the nature of oceanic life, 1969 Sept. p. 146. [884]
- Isaacs, John D., and Richard A. Schwartzlose. ACTIVE ANIMALS OF THE DEEP-SEA FLOOR, 1975 Oct. p. 84.
- Ittelson, W. H., and F. P. Kilpatrick. EXPERIMENTS IN PERCEPTION, 1951 Aug. p. 50. [405]
- Ittner, William B., III, and C. J. Kraus. SUPERCONDUCTING COMPUTERS, 1961 July p. 124.
- Iversen, Johannes. Forest Clearance in the stone age, 1956 Mar. p. 36.
- Ivey, Henry F. ELECTROLUMINESCENCE, 1957 Aug. p. 40. [221]

J

- Jackson, Don D. PSYCHOTHERAPY FOR SCHIZOPHRENIA, 1953 Jan. p. 58 [441]; SUICIDE, 1954 Nov. p. 88; SCHIZOPHRENIA, 1962 Aug. p. 65. [468]
- Jacob, François, and Elie L. Wollman. SEXUALITY IN BACTERIA, 1956 July p. 109 [50]: VIRUSES AND GENES, 1961 June p. 92. [89]
- Jacobs, William P. WHAT MAKES LLAVESTALL',
 1955 Nov. p. 82. [116]
- Jacobsen, Thomas W. 17,000 YEARS OF GREEK PREHISTORY, 1976 June p. 76.
- Jacobson, Antone G., and Richard Gordon. THE SHAPING OF TISSULS EMBRYOS, 1978 June p. 106. [1391]
- Jacobson, Lenore F., and Robert Rosenthal TEACHER EXPLCTATIONS FOR THE DISADVANTAGED, 1968 Apr. p. 19 [514]
- Jacobson, Marcus, and R. Kevin Hunt. His ORIGINS OF NERVE CELL SPECIFICITY, 1973 Feb p. 26. [1265]
- Jacobson, Martin, and Morton Beroza. INSECT ATTRACIANTS, 1964 Aug. p. 20 [189] Jaffe, Frederick S. Fund to Policy ON FERTILITY CONTROL, 1973 July p. 17.
- Jakobson, Roman VERBAL COMMUNICATION, 1972 Sept. p. 72. [547]
- James, David E. (10.1550) (10.1650) (10.1653), 1973 Aug. p. 60 [910]
- James, J. N. 1111 volvoit of Martin at 1, 1961 July p. 70, the volvoit of Martin at 1, 1966 Mar. p. 1966
- James, I. H. enormal senso proceeding, 1952. Nov. p. 30.
- James, Wends native a news according, 1775 Irec p. 14

Jameson, Michael H. How themistocles planned the battle of salamis, 1961 Mar. p. 111; the excavation of a drowned greek temple, 1974 Oct. p. 110.

Janeway, Charles A., and David Gitlin.
AGAMMAGLOBULINEMIA, 1957 July p. 93.
Janick, Jules, Carl H. Noller and Charles L.
Rhykerd, THE CYCLES OF PLANT AND ANIMAL
NUTRITION, 1976 Sept. p. 74.

Jannasch, Holger W., and Carl O. Wirsen. MICROBIAL LIFE IN THE DEEP SEA, 1977 June p. 42. [926]

Janowitz, Morris, and Bruno Bettelheim. PREJUDICE, 1950 Oct. p. 11.

Janssen, Raymond E. The BEGINNINGS OF COAL, 1948 July p. 46; THE HISTORY OF A RIVER, 1952 June p. 74.

Jarmie, Nelson, and Howard C. Bryant. THE GLORY, 1974 July p. 60.

Jarvik, Murray E., Frank Barron and Sterling Bunnell, Jr. the HALLIUCINOGENIC DRUGS, 1964 Apr. p. 29. [483]

Jasirow, Robert. Artificial satellites and the Earth's atmosphere, 1959 Aug. p. 37 [851]; the exploration of the moon, 1960 May p. 61.

Javan, Ali. The optical properties of MATERIALS, 1967 Sept. p. 238.

Jellinek, Stefan. ARTIFICIAL RESPIRATION, 1951 July p. 18.

Jenkins, David S. Fresh water from Salt, 1957 Mar. p. 37.

Jennings, Peter R. THE AMPLIFICATION OF AGRICULTURAL PRODUCTION, 1976 Sept. p. 180.

Jensen, David. THE HAGFISH, 1966 Feb. p. 82. [1035]

Jensen, E. J., and H. S. Ellis, PIPELINES, 1967 Jan. p. 62.

Jensen, Homer. THE AIRBORNE MAGNETOMETER, 1961 June p. 151.

Jensen, Homer, L. C. Graham, Leonard J.
Porcello and Emmett N. Leith, SIDE-LOOKING
AIRBORNE RADAR, 1977 Oct. p. 84. [386]

Jerison, Harry J. Paleoneurology and the evolution of mind, 1976 Jan. p. 90. [568] Jeme, Niels Kaj. The immune system, 1973 July p. 52. [1276]

Josse, Abram F. THE REVIVAL OF THERMO-ELECTRICITY, 1958 Nov. p. 31. [222]

Johansen, Kjell, AIR-BREATHING FISHES, 1968 Oct. p. 102. [1125]

Johansson, Gunnar, VISUAL MOTION PERCEPTION, 1975 June p. 76. [564]

Johnson, Arthur W. WEATHER SATELLITES, 1969 Jan. p. 52.

Johnson, Brian E., Farrington Daniels, Jr., and Jan C. van der Leun. SUNBURN, 1968 July p. 38.

Johnson, C. G. THE AERIAL MIGRATION OF INSECTS, 1963 Dec. p. 132. [173]

Johnson, Frank H. HEAT AND LIFE, 1954 Sept. p. 64.

Johnson, Gerald W., and Harold Brown, Non-MILITARY USES OF NUCLEAR EXPLOSIVES, 1958 Dec. p. 29.

Johnson, Jotham, the language of homer's Herges, 1954 May p. 70; the slow death of a City, 1954 July p. 66; the changing American language, 1955 Aug. p. 78.

Johnson, Steven A., Richard Gordon and Gabor T. Herman, IMAGE RECONSTRUCTION FROM FROJECTIONS, 1975 Oct. p. 56.

Johnston, David R., and Byrd C. Curtis. HYBRID WHIAT, 1969 May p. 21.

Johnston, James W., Jr., John E. Amoore and Martin Rubin. THE STEREOCHEMICAL THEORY OF ODOR, 1964 Feb. p. 42.

Jones, Alfred Winslow, THE NATIONAL SCIENCE FOUNDATION, 1948 June p. 7.

Jones, Jack Colvard. The Sexual Life of a mosquito, 1968 Apr. p. 108; the feeding behavior of mosquitoes, 1978 June p. 138. [1392]

Jones, Kenneth L., Raymond E. Arvidson and Alan B. Binder the surface of Mars, 1978 Mar. p. 76. [399]

Jones, Maitland, Jr. Carbenes, 1976 Feb. p. 101. Jones, R. Clark. How images are detected, 1968 Sept. p. 110.

Joravsky, David. THE LYSENKO AFFAIR, 1962 Nov. p. 41.

Jordan, W. H. RADIATION FROM A REACTOR, 1951 Oct. p. 54.

Josephson, Matthew. THE INVENTION OF THE ELECTRIC LIGHT, 1959 Nov. p. 98.

Jourard, Sidney M. A STUDY OF SELF-DISCLOSURE, 1958 May p. 77.

Jouvet, Michel. THE STATES OF SLEEP, 1967 Feb. p. 62. [504]

Judson, Sheldon. Arroyos, 1952 Dec. p. 71.
Julesz, Bela. texture and visual perception,
1965 Feb. p. 38 [318]; experiments in the
visual perception of texture, 1975 Apr.
p. 34. [563]

K

Kabat, Elvin A. Allergic mechanisms in nervous disease, 1949 July p. 16. Kac, Mark. probability, 1964 Sept. p. 92. Kadis, Solomon, Thomas C. Montie and Samuel J. Ajl. plague toxin, 1969 Mar. p. 92.

Kagan, Jerome. Do INFANTS THINK?, 1972 Mar. p. 74. [542]

Kaganov, M. I., M. Ya. Azbel' and I. M. Lifshitz. conduction electrons in metals, 1973 Jan. p. 88.

Kahan, Barry D., and Ralph A. Reisfeld. MARKERS OF BIOLOGICAL INDIVIDUALITY, 1972 June p. 28. [1251]

Kahn, David. MODERN CRYPTOLOGY, 1966 July p. 38.

Kalish, Harry I., and Norman Guttman. EXPERIMENTS IN DISCRIMINATION, 1958 Jan. p. 77. [403]

Kalmus, Hans. Inherited sense defects, 1952 May p. 64 [406]; More on the language of the Bees, 1953 July p. 60; the sun navigation of animals, 1954 Oct. p. 74; the chemical senses, 1958 Apr. p. 97.

Kamen, Martin D. Tracers, 1949 Feb. p. 30; discoveries in nitrogen fixation, 1953 Mar. p. 38; a universal molecule of living matter, 1958 Aug. p. 77.

Kamrass, Murray, PNEUMATIC BUILDINGS, 1956

June p. 131.

Kandel, Eric R. Nerve cells and Behavior, 1970 July p. 57. [1182]

Kanizsa, Gaetano, subjective contours, 1976 Apr. p. 48. [570]

Kantrowitz, Arthur. VERY HIGH TEMPERATURES, 1954 Sept. p. 132.

Kapany, Narinder S. FIBER OPTICS, 1960 Nov. p. 72.

Kaplan, Fred M. ENHANCED RADIATION WEAPONS, 1978 May p. 44. [3007] Kaplan, Martin M., and Robert G. Webster. THE EPIDEMIOLOGY OF INFLUENZA, 1977 Dec.

p. 88. [1375]

Kappas, Attallah, and Alvito P. Alvares. How THE LIVER METABOLIZES FOREIGN SUBSTANCES, 1975 June p. 22. [1322]

Karasek, F. W. ANALYTIC INSTRUMENTS IN PROCESS CONTROL, 1969 June p. 112.

Katchalsky, A., and S. Lifson. Muscle as a Machine, 1954 Mar. p. 72.

Katona, George. ECONOMIC PSYCHOLOGY, 1954 Oct. p. 31. [452]

Katz, Bernhard. The NERVE IMPULSE, 1952 Nov. p. 55 [20]; HOW CELLS COMMUNICATE, 1961 Sept. p. 209. [98]

Katz, Joseph J. the biology of heavy water, 1960 July p. 106.

Katz, Milton. Decision-making in the PRODUCTION OF POWER, 1971 Sept. p. 191. [671]

Kaufer, Herbert, David A. Sonstegard and Larry S. Matthews the surgical REPLACEMENT OF THE HUMAN KNEE JOINT, 1978 Jan. p. 44. [1378]

Kaufman, Lloyd, and Irvin Rock. The Moon ILLUSION, 1962 July p. 120. [462]
Kaufman, William. ASTHMA, 1952 Aug. p. 28.
Kay, Alan C. MICROELECTRONICS AND THE

PERSONAL COMPUTER, 1977 Sept. p. 230. [384] Kay, Marshall. THE ORIGIN OF CONTINENTS, 1955

Sept. p. 62. [816]

Keele, Denis. COLLECTIVE-EFFECT ACCELERATORS, 1972 Apr. p. 22.

Keeley, Lawrence H. THE FUNCTIONS OF PALEOLITHIC FLINT TOOLS, 1977 Nov. p. 108. [700]

Keeton, William T. THE MYSTERY OF PIGEON HOMING, 1974 Dec. p. 96. [1311]

Keffer, Frederic. The MAGNETIC PROPERTIES OF MATERIALS, 1967 Sept. p. 222.

Kelland, David, Henry H. Kolm, and John Oberteuffer. HIGH-GRADIENT MAGNETIC SEPARATION, 1975 Nov. p. 46.

Kellenberger, Edouard. The Genetic Control of the shape of a virus, 1966 Dec. p. 32. [1058]

Keller, Roy A. gas chromatography, 1961 Oct. p. 58. [276]

Kellerman, K. I. INTERCONTINENTAL RADIO ASTRONOMY, 1972 Feb. p. 72.

Kelley, James B. HEAT. COLD AND CLOTHING, 1956 Feb. p. 109.

Kellogg, Charles E. soil, 1950 July p. 30. [821] Kelly, Anthony, fiber-reinforced metals, 1965 Feb. p. 28; the nature of composite materials, 1967 Sept. p. 160.

Kelly, Clarence F. MECHANICAL HARVESTING, 1967 Aug. p. 50. [329]

Kelner, Albert. REVIVAL BY LIGHT, 1951 May p. 22.

Kemeny, John G. MAN VIEWED AS A MACHINE, 1955 Apr. p. 58.

Kemp, William B. The Flow of Energy in A HUNTING SOCIETY, 1971 Sept. p. 104. [665] Kendall, Henry W., and Wolfgang Panofsky. THE STRUCTURE OF THE PROTON AND THE

NEUTRON, 1971 June p. 60.

Kendrew, John C. The Three-Dimensional STRUCTURE OF A PROTEIN MOLECULE, 1961 Dec.

p. 96. [121] Kennard, C. H. L., and Don. B. Sullenger.

BORON CRYSTALS, 1966 July p. 96. Kennedy, Donald, insubtrion in visual systems, 1963 July p. 122 [162]; small systems of nerve cells, 1967 May p. 44. [1073]

Kenyon, Kathleen M. Ancient Jericho, 1954 Apr. p. 76; ancient Jerusalem, 1965 July p. 84.

- Kerker, Milton and Victor K. La Mer. LIGHT SCATTERED BY PARTICLES, 1953 Feb. p. 69. Kermode, G. O. FOOD ADDITIVES, 1972 Mar. p. 15.
- Kert, Paul F. the Earth's Uranium, 1951 May p. 17; Quick Clay, 1963 Nov. p. 132.
- Kershaw, David N. A NEGATIVE-INCOME-TAX EXPERIMENT, 1972 Oct. p. 19.
- Kettaní, M. Ali, and José P. Peixoto. The CONTROL OF THE WATER CYCLE, 1973 Apr. p. 46. [907]
- Kettlewell, H. B. D. DARWIN'S MISSING EVIDENCE, 1959 Mar. p. 48. [842]
- Keyfitz, Nathan. world resources and the world middle class, 1976 July p. 28.
- Keynes, Sir Geoffrey. AMBROISE PARE, 1956 Jan. p. 90.
- Keynes, Richard, THE NERVE IMPULSE AND THE SQUID, 1958 Dec. p. 83. [58]
- Kilgour, Frederick G. william Harvey, 1952 June p. 56; Galen, 1957 Mar. p. 105.
- Kilpatrick, F. P., and W. H. Ittelson. EXPERIMENTS IN PERCEPTION, 1951 Aug. p. 50. [405]
- Kim, Sung Hou, and Alexander Rich. THE THREE-DIMENSIONAL STRUCTURE OF TRANSFER RNA, 1978 Jan. p. 52. [1377]
- Kimble, George H. T. THE CHANGING CLIMATE, 1950 Apr. p. 48; THE GEOGRAPHY OF STEEL, 1952 Jan. p. 44.
- Kimura, Doreen, the asymmetry of the Human Brain, 1973 Mar. p. 70. [554]
- King, Gilbert W. Information, 1952 Sept. p. 132.
- King, Gilbert W., and Hsien-Wu Chang. MACHINE TRANSLATION OF CHINESE, 1963 June p. 124.
- King, John A. The social behavior of prairie dogs, 1959 Oct. p. 128.
- King-Hele, Desmond. The shape of the Earth, 1967 Oct. p. 67. [873]
- Kino, Gordon S., and John Shaw, acoustic surface waves, 1972 Oct. p. 50.
- Kirk, William T., and Edward L. Ginzton. THE TWO-MILE ELECTRON ACCELERATOR, 1961 Nov. p. 49. [322]
- Kirk, William T., and Martin L. Perl. HEAVY LEPTONS, 1978 Mar. p. 50. [398]
- Kirkpatrick, Paul. The x-RAY MICROSCOPE, 1949 Mar. p. 44.
- Kirshner, Robert P. supernovas in other Galaxies, 1976 Dec. p. 88.
- Kisieleski, Walter E., and Renato Baserga. AUTOBIOGRAPHIES OF CELLS, 1963 Aug. p. 103. [165]
- Kistiakowsky, G. B., and G. W. Rathjens. THE LIMITATION OF STRATEGIC ARMS, 1970 Jan. p. 19. [654]
- Klapper, Joseph T., and Charles Y. Glock, TRIAL BY NEWSPAPER, 1949 Feb. p. 16.
- Klebesadel, Ray W., and Ian B. Strong, COSMIC GAMMA-RAY BURSTS, 1976 Oct. p. 66.
- Kicin, H. Arthur, pieter bruegel the elder as a guide to 16th-century technology, 1978 Mar. p. 134. [3003]
- Klein, Richard G. ICE-AGEHUNTERS OF THE UKRAINE, 1974 June p. 96. [685]
- Kleinsmith, Lewis J., Gary S. Stein and Janet Swinchart Stein, CHROMOSOMAL PROTEINS AND GENE REGULATION, 1975 Feb. p. 46. [1315]
- Kleitman, Nathaniel Sleep, 1952 Nov. p. 34
 [431]; patterns of dreaming, 1960 Nov.
 p. 92. [460]
- Kline, Morts, projective geometry, 1955 Jan. p. 80; the straight line, 1956 Mar. p. 164; geometry, 1864 Sept. p. 60.

- Knapp, R. H., H. B. Goodrich and George A. W. Boehm. THE ORIGINS OF U.S. SCIENTISTS, 1951 July p. 15.
- Knauss, John A., THE CROMWELL CURRENT, 1961 Apr. p. 105.
- Knight, C. A., and Dean Fraser, THE MUTATION OF VIRUSES, 1955 July p. 74, [59]
- Knight, Charles and Nancy. Hallstones, 1971 Apr. p. 96; snow crystals, 1973 Jan. p. 100. Knipling, Edward F. the eradication of the screw-worm fly, 1960 Oct. p. 54.
- Knowles, John H. THE HOSPITAL, 1973 Sept. p. 128.
- Knox, William T. Cable Television, 1971 Oct. p. 22.
- Knudsen, Vern O. ARCHITECTURAL ACOUSTICS, 1963 Nov. p. 78.
- Knuth, Donald E. Algorithms, 1977 Apr. p. 63. [360]
- Kohler, Ivo. experiments with goggles, 1962 May p. 62. [465]
- Köhler, J. W. L. THE STIRLING REFRIGERATION CYCLE, 1965 Apr. p. 119.
- Kohne, David E., and Roy J. Britten. REPEATED SEGMENTS OF DNA, 1970 Apr. p. 24. [1173]
- Kolbeck, A. G., and D. R. Uhlmann, THE MICROSTRUCTURE OF POLYMERIC MATERIALS, 1975 Dec. p. 96.
- Kolers, Paul A. The Illusion of Movement, 1964 Oct. p. 98 [487]; Bilingualism and information processing, 1968 Mar. p. 78; experiments in reading, 1972 July p. 84. [545]
- Kolff, Willem J. an artificial heart inside the BODY, 1965 Nov. p. 38. [1023]
- Koller, Dov. Germination, 1959 Apr. p. 75. Koller, Dov, and Michael Evenari. Ancient MASTERS OF THE DESERT, 1956 Apr. p. 39.
- Kolm, Henry H., and Arthur J. Freeman. INTENSE MAGNETIC FIELDS, 1965 Apr. p. 66.
- Kolm, Henry H., and Richard D. Thornton. ELECTROMAGNETIC FLIGHT, 1973 Oct. p. 17.
- Kolm, Henry H., John Oberteuffer and David Kelland, High-Gradient Magnetic SEPARATION, 1975 Nov. p. 46.
- Kondo, Herbert, Michael Faraday, 1953 Oct. p. 90.
- Konigsberg, Irwin R. The embryological origin of muscle, 1964 Aug. p. 61.
- Konorski, Jerzy. Pavlov, 1949 Sept. p. 44. Kooyman, Gerald L. The weddell seal, 1969 Aug. p. 100. [1156]
- Kopac, M. J. Microsurgery, 1950 Oct. p. 48. Kopal, Zdenek. The Luminescence of the Moon, 1965 May p. 28.
- Koprowski, Hilary, and Abner Louis Notkins. HOW THE IMMUNE RESPONSE TO A VIRUS CAN CAUSE DISEASE. 1973 Jon. D. 22, [1263]
- CAUSE DISEASE, 1973 Jan. p. 22. [1263]
 Koprowski, Hilary, and Carlo M. Croce the
 GENETICS OF HUMAN CANCER, 1978 Feb. p. 117.
 [1381]
- Korff, Serge A. Counters, 1950 July p. 40. Korfmann, Manfred, the sling as a weapon, 1973 Oct. p. 34.
- Kornberg, Arthur, the synthesis of DNA, 1968 Oct. p. 64. [1124]
- Korringa, Pieter, Orsters, 1953 Nov. p. 86. Korsch, Burbara M., and Vida Francis Negrete. DOCTOR PATIENT COMMUNICATION, 1972 Aug. p. 66.
- Kort, V. G. THE ANTARCTIC OCEAN, 1962 Sept. p. 113. [860]
- Kortlandt, Admain, emsiz colzestio tite with, 1962 May p. 128, [463]
- Kosambi, D. D. sen sinic se sensistics, 146 Feb. p. 102; envisioner exemplorer prissers, 1567 Feb. p. 164

- Koshland, Daniel E., Jr. PROTEIN SHAPE AND BIOLOGICAL CONTROL, 1973 Oct. p. 52. [1280] Kovach, Robert, Wilmot Hess, Paul W. Gast and Gene Simmons. THE EXPLORATION OF THE MOON, 1969 Oct. p. 54. [889]
- Kraft, R. Wayne, CONTROLLED EUTECTICS, 1967 Feb. p. 86.
- Kraft, Robert P. pulsating stars and cosmic distances, 1959 July p. 48; exploding stars, 1962 Apr. p. 54.
- Kramer, Henry H., and Werner H. Wahl. NEUTRON-ACTIVATION ANALYSIS. 1967 Apr. p. 68.
- Kramer, Samuel Noah, sumerian "Farmer's Almanac", 1951 Nov. p. 54; the oldest laws, 1953 Jan. p. 26; the sumerians, 1957 Oct. p. 70.
- Kraus, C. J., and William B. Ittner III. Super-CONDUCTING COMPUTERS, 1961 July p. 124. Kraus, John D. Radio Telescopes, 1955 Mar. p. 36; The Radio SKY, 1956 July p. 32.
- p. 30; THE RADIO SKY, 1930 July p. 32.

 Kraushaar, William L., and George W. Clark.
 GAMMA RAY ASTRONOMY, 1962 May p. 52.
- Krauss, Robert M., and Sam Glucksberg, social and nonsocial speech, 1977 Feb. p. 100. [576]
- Krebs, Charles J., and Judith H. Myers. POPULATION CYCLES IN RODENTS, 1974 June p. 38, [1296]
- Kreiling, Frederick C. Leibniz, 1968 May p. 94. Kretchmer, Norman, Lactose and Lactase, 1972 Oct. p. 70. [1259]
- Kretzmer, Ernest R. COMMUNICATION TERMINALS, 1972 Sept. p. 130.
- Kroeber, A. L. Anthropology, 1950 Sept. p. 87. Krogh, August. The Language of the Bels, 1948 Aug. p. 18. [21]
- Krogman, Wilton M. The man-apts of south africa, 1948 May p. 16; the record of human illness, 1949 Jan. p. 52; the scars of human evolution, 1951 Dec. p. 54. [632]
- Kropf, Allen, and Ruth Hubbard. MOLLCULAR ISOMERS IN VISION, 1967 June p. 64. [1075] Kucherlapati, Raju S., and Frank H. Ruddle. Hybrid cells and human genes, 1974 July p. 36. [1300]
- Kuenen, Ph. H. sand, 1960 Apr. p. 94. Kunzler, J. E., and Morris Tanenbaum. SUPERCONDUCTING MAGNETS, 1962 June p. 60. [279]
- Kurath, Hans, the american languages, 1950 Jan. p. 48.
- Kurién, Björn, continental drift vnd evolution, 1969 Mar. p. 54 [877]; the Cavi bear, 1972 Mar. p. 60.
- Kushner, Lawrence M., and James I Hoffman SYNTHETIC DETERGENTS, 1951 Oct. p. 26.
- Kvenvolden, Keith A., James G. Lawless and Clair E. Folsome, ORDANIC MATTER IS METCORITES, 1972 June p. 38, [902] Kylstra, Johannes A. Experiments is water.
- Kylstra, Johannes A. experiments is wellb breathing, 1968 Aug. p. 66, [1123]

\mathcal{L}

- La Farge, Oliver, the production order of the Feb. p. 37.
- La Mer, Victor K., and Milion Kerker runti in arthresing routiers, 1933 Lett p. 63 Labada, Miliotell A., and Jan ex P. House experience run as inscriming, 1973 Jan 2002
- Lathapeda, Edward R. Die er erent de verd Lathapeda, Edward R. Die er erent de verd Lathapeda, Edward et p. 12

Lack, David DARWINS FINCHES, 1953 Apr p 66 [22]

Lack, David and Elizabeth THE HOME LIFE OF THESWIFT, 1954 July p 60

Lake, Koloman THE CLOTTING OF FIBRINGGEN, 1962 Mar p 60

Lamb, I Mackenzie Lichens, 1959 Oct p 144 [111]

Lamberg-Karlovsky, C C and Martha AN EARLY CITY IN IRAN, 1971 June p 102 [660] Lambert, Joseph B THE SHAPES OF ORGANIC MOLECULES, 1970 Jan p 58 [331]

Land, Edwin H EXPERIMENTS IN COLOR VISION, 1959 May p 84 [223], THE RETINEX THEORY OF COLOR VISION, 1977 Dec p 108 [1392]

Landsberg, Helmut E THE ORIGIN OF THE ATMOSPHERE, 1953 Aug p 82 [824]

Lane, Charles RABBIT HEMOGLOBIN FROM FROG EGGS, 1976 Aug p 60 [1343]

Lane, Charles E. THE PORTUGUESE MAN-OF WAR, 1960 Mar 158, THE TEREDO, 1961 Feb p 132 Langbein, W B, and Luna B Leopold RIVER MEANDERS, 1966 June p 60 [869]

Langenberg, Donald N , Barry N Taylor and William H Parker THE FUNDAMENTAL PHYSICAL CONSTANTS, 1970 Oct p 62 [337]

Langenberg, Donald N, Douglas J Scalapino and Barry N Taylor THE IOSEPHSON EFFECTS, 1966 May p 30

Langer, William L THE BLACK DEATH, 1964 Feb p 114 [619], CHECKS ON POPULATION GROWTH 1750-18°0, 1972 Feb p 92 [674], THE Prevention of Smallpox before Jenner, 1976 Jan p 112

Lanning, Edward P EARLY MAN IN PERU, 1965 Oct p 68

Lanning, Edward P, and Thomas C Patterson EARLY MAN IN SOUTH AMERICA, 1967 NOV p 44

Lansing, Albert I experiments in aging, 1953 Apr p 38

Lapan, Elliot A, and Harold J Morowitz. THE MESOZOA, 1972 Dec p 94 [1262]

Lapone, Olio shock waves, 1949 Nov p 14 Lapp, Ralph E THE HYDROGEN BONB IV, 1950 June p 11

Larsen, James A, and Arthur D Hasler THE HOMING SALMON, 1955 Aug p 72 [411] Lasagna, Louis Placebos, 1955 Aug p 68 Latte, Bachisio Georges H Werner and Andrea

Contini Trachovia, 1964 Jan p 79 Lattimore, Owen CHINGIS KHAN AND THE MONGOL CONQUESTS, 1963 Aug p 54

Lawless James G. Clair E Folsome and Keith A Kvenvolden organic matter in METEORITES, 1972 June p 38 [902]

Lawton, Alexander R, III, and Max D Cooper THE DEVELOPMENT OF THE IMMUNE SISTEM 1974 Nov p 58 [1306]

Layzer, David THE ARROW OF TIME, 1975 Dec P 56

Lazarsfeld, Paul F NOTES IN THE MAKING 1950 Nov p 11

Le Corbuiller, Philippe CRYSTALS AND THE TUTURE OF PHYSICS, 1953 Jan p 50, THE CURTATURE OF SPACE, 1954 NOT p 80 Leachman, R. B NECLEAR FISSION, 1965 Aug

Leader Robert W THE KINSHIP OF ANIMAL AND HEMAN DISLASES, 1967 Jan p 110 Leaf Alexander Gerting old 1973 Sept p 44 Lealey, L S B OLDUV M GORGE, 1954 Jan p 66 Lebland, C.P. and Manan Neutra THE GOLGI ATTAKATES, 1969 Feb p 100 [1134] Lederman Leon the two-seutriso PATRICULAT, 1963 Mar p 60 [324]

Ledley, Robert S, and Frank H Ruddle CHROMOSOME ANALYSIS BY COMPUTER, 1966 Apr p 40 [1040]

Lee, Bernard S, and H William Flood FLUIDIZATION, 1968 July p 94

Lee, David M, and N David Mermin SUPERFLUID HELIUM 3, 1976 Dec p 56

Lee, Richard F, and Andrew A Benson THE ROLE OF WAX IN OCEANIC FOOD CHAINS, 1975 Mar p 76 [1318]

Leet, L Don MICROSEISMS, 1949 Feb p 42, THE DETECTION OF UNDERGROUND EXPLOSIONS, 1962 June p 55

Leggett, William C THE MIGRATIONS OF THE shad, 1973 Mar p 92 [1268]

Lehnert, Rudolf F, and David C Hazen Low SPEED FLIGHT, 1956 Apr p 46

Lehninger, Albert L ENERGY TRANSFORMATION IN THE CELL, 1960 May p 102 [69], HOW CELLS TRANSFORM ENERGY, 1961 Sept p 62 [91]

Lehrman, Daniel S THE REPRODUCTIVE BEHAVIOR OF RING DOVES, 1964 Nov p 48

Leibowitz, Martin A QUEUES, 1968 Aug p 96 Leighton, Alexander H POVERTY AND SOCIAL CHANGE, 1965 May p 21 [634]

Leighton, Robert B THE PHOTOGRAPHS FROM MARINER IV, 1966 Apr p 54, THE SURFACE OF MARS, 1970 May p 26

Leighton, Robert B, and G Neugebauer THE INFRAREDSKY, 1968 Aug p 50

Leith, Emmett N WHITE LIGHT HOLOGRAMS, 1976 Oct p 80

Leith, Emmett N, and Juris Upatnieks PHOTOGRAPHY BY LASER, 1965 June p 24

Leith, Emmett N, Homer Jensen, L C Graham and Leonard J Porcello SIDE LOOKING AIRBORNERADAR, 1977 Oct p 84 [386]

Lemmon, Richard M, and Wallace R. Erwin HIGH ENERGY REACTIONS OF CARBON, 1975 Jan

Lempicki, Alexander, and Harold Samelson LIQUID LASERS, 1967 June p 80

Leondes, Cornelius T INERTIAL NAVIGATION FOR AIRCRAFT, 1970 Mar p 80

Leontief, Wassily W INPUT OUTPUT ECONOMICS, 1951 Oct p 15, MACHINES AND MAN, 1952 Sept p 150, THE STRUCTURE OF DEVELOPMENT, 1963 Sept p 148 [617], THE STRUCTURE OF U.S. ECONOMY, 1965 Apr p 25 [624]

Leontief, Wassily W, and Marvin Hoffenberg THE ECONOMIC EFFECTS OF DISARMAMENT, 1961 Apr p 47 [611]

Leopold A Starker too MANY DEER, 1955 Nov p 101

Leopold, Luna B, and W B Langbein RIVER MEANDERS, 1966 June p 60 [869]

Leovy, Conway B THE ATMOSPHERE OF MARS, 1977 July p 34 [369]

Lerman, Sidney GLAUCOMA, 1959 Aug. p 110,

CATARACTS, 1962 Mar p 106 Lerner, Aaron B HORMONES AND SKIN COLOR,

1961 July p 98 Lerner, Lawrence S. and Edward A. Gosselin GIORDANO BRUNO, 1973 Apr p 86

Lerner, Richard A, and Frank J Dixon THE HUMAN LYMPHOCYTE AS AN EXPERIMENTAL ANIMAL, 1973 June p 82 [1275]

Leroi-Gouthan Andre THE EVOLUTION OF PALEOLITHIC ART, 1968 Feb p 58 Lesser, Sandra Lloyd, and David B Hertz.

ILOPLEIN GROUPS 1951 Feb p 26

Lessing, Lawrence P HIGH SPEED CHEMISTRY, 1953 May p 29, HYDRAZING 1953 July p 30, THE GAS TURBINE, 1953 NOV D 65, COMPUTERS INBUSINESS 1954 Jan p 21. THE NATIONAL SCIENCE FOUNDATION TAKES STOCK. 1954 Mat

p 29, the late edwin h armstrong, 1954 Apr p 64, PURE METALS, 1954 July p 36, HELICOPTERS, 1955 Jan p 36, COAL, 1955 July p 58, AUTOMATIC MANUFACTURE OF ELECTRONIC EQUIPMENT, 1955 Aug p 29

Lester, Henry A THE RESPONSE TO ACETYLCHOLINE, 1977 Feb p 106 [1352]

Lester, Richard K, and David J Rose NUCLEAR POWER, NUCLEAR WEAPONS AND INTERNATIONAL STABILITY, 1978 Apr p 45 [3004]

Letokhov, V S, and M S Feld LASER SPECTROSCOPY, 1973 Dec p 69

Levatin, Paul, and Harvey E White FLOATERS IN THE EYE, 1962 June p 119

Levey, Raphael H THETHYMUS HORMONE, 1964 July p 66

Levin, Ellis, Donald D Viele and Lowell B Eldrenkamp THE LUNAR ORBITER MISSIONS TO тне моон, 1968 Мау р 58

Levine, Jacob Responses to Humor, 1956 Feb p 31 [435]

Levine, Morton A, Harold P Furth and Ralph W Waniel STRONG MAGNETIC FIELDS, 1958 Feb p 28

Levine, R. P THE MECHANISM OF PHOTOSYNTHESIS, 1969 Dec p 58 [1163]

Levine, R. P, and Ursula W Goodenough THE GENETIC ACTIVITY OF MITOCHONDRIA AND CHLOROPLASTS, 1970 Nov p 22 [1203]

Levine, Rachmiel, and M S Goldstein THE ACTION OF INSULIN, 1958 May p 99

Levine, Seymour STIMULATION IN INFANCY, 1960 May p 80 [436], sex differences in the BRAIN, 1966 Apr p 84 [498], STRESS AND BEHAVIOR, 1971 Jan p 26 [532]

Levinson, Eugene, and Robert Sekuler THE PERCEPTION OF MOVING TARGETS, 1977 Jan p 60 [575]

Levinson, Horace C, and Arthur A Brown OPERATIONS RESEARCH, 1951 Mar. p 15

Levinthal, Cyrus MOLECULAR MODEL BUILDING BY COMPUTER, 1966 June p 42 [1043]

Levoy, Myron, and John J Newgard NUCLEAR ROCKETS, 1959 May p 46

Lewis, Bernard HIGHTEMPERATURES FLAME, 1954 Sept p 84

Lewis, Harold W BALLISTOCARDIOGRAPHY, 1958 Feb p 89, BALL LIGHTNING, 1963 Mar p 106 Lewis, Harry R., and Christos H Papadimitriou THE EFFICIENCY OF ALGORITHMS, 1978 Jan

p 96 [395] Lewis, Irving I GOVERNMENT INVESTMENT IN

HEALTH CARE, 1971 Apr p 17 Lewis, John S the Chemistry of the solar system, 1974 Mar p 50

Lewis, Oscar The Culture of Poverty, 1966 Oct p 19 [631], THE POSSESSIONS OF THE POOR, 1969 Oct p 114 [651]

Lewis, Russell V, Robert S Dietz and Andreas B Rechnitzer the Bathyscaph, 1958 Apr p 27

Lewit, Sarah, and Christopher Tietze ABORTION. 1969 Jan p 21 [1129], LEGAL ABORTION, 1977 Jan p 21 [1348]

Ley, Willy ROCKETS, 1949 May p 30 Li, Choh Hao the pituitary, 1950 Oct p 18, THE ACTH MOLECULE, 1963 July p 46 [160] Libby, Willard F HOTATOM CHEMISTRY, 1950

Mar p 44, TRITIUM IN NATURE, 1954 Apr p 38 Liddell, Howard S conditioning and EMOTIONS, 1954 Jan p 48 [418]

Lie, Trygre UNA MASS DESTRUCTION, 1950 Jan p II Lieber, Charles S THE METABOLISM OF ALCOHOL.

1976 Mar p 25 [1336]

Lietzke, M. H. RUNNING RECORDS, 1952 Aug. p. 52.

Lifshitz, Eugene M. SUPERFLUIDITY, 1958 June p. 30. [224]

Lifshitz, I. M., M. Ya. Azbel' and M. I. Kaganov. Conduction electrons in metals, 1973 Jan. p. 88.

Lifson, S., and A. Katchalsky, MUSCLE AS A MACHINE, 1954 Mar. p. 72.

Likens, Gene E., and F. Herbert Bormann. The NUTRIENT CYCLES OF AN ECOSYSTEM, 1970 Oct. p. 92. [1202]

Likens, Gene E., James R. Gosz, Richard T. Holmes and F. Herbert Bormann. The Flow OF ENERGY IN A FOREST ECOSYSTEM, 1978 Mar. p. 92. [1384]

Likert, Rensis. PUBLIC OPINION POLLS, 1948 Dec. p. 7.

Lillehei, C. Walton, and Leonard Engel. OPEN-HEART SURGERY, 1960 Feb. p. 76.

Liller, Martha and William, PLANETARY NEBULAE, 1963 Apr. p. 60.

Lilley, A. E. THE ABSORPTION OF RADIO WAVES IN SPACE, 1957 July p. 48.

Lilliu, Giovanni. THE PROTO-CASTLES OF SARDINIA, 1959 Dec. p. 62.

Limbaugh, Conrad. CLEANING SYMBIOSIS, 1961 Aug. p. 42. [135]

Limber, D. Nelson. THE PLEIADES, 1962 Nov. p. 58. [285]

Lin, T. Y. PRESTRESSED CONCRETE, 1958 July p. 25.

Linde, Ronald K., and Richard C. Crewdson. SHOCK WAVES IN SOLIDS, 1969 May p. 82.

Linder, Fortest E. THE HEALTH OF THE AMERICAN PEOPLE, 1966 June p. 21.

Linderstrom-Lang, K. U. How IS A PROTEIN MADE?, 1953 Sept. p. 100.

Lineback, Hugh, MUSICAL TONES, 1951 May p. 52.

Linton, Ralph. The Personality of Peoples, 1949 Aug. p. 11; Halloween, 1951 Oct. p. 62. Lipetz, Ben-Ami. Information Storage and

RETRIEVAL, 1966 Sept. p. 224. Lipman-Blumen, Jean. How ideology shapes WOMEN'S LIVES, 1972 Jan. p. 34.

Lippold, Olof. Physiological tremor, 1971 Mar. p. 65. [1217]

Lissmann, H. W. ELECTRIC LOCATION BY FISHES, 1963 Mar. p. 50. [152]

Litke, Alan M. and Richard Wilson, ELECTRON-

Loewenstein, Werner R. BIOLOGICAL TRANSDUCERS, 1960 Aug. p. 98 [70]; INTERCELLULAIR COMMUNICATION, 1970 May p. 78. [1178]

Long, Esmond R. THE GERM OF TUBERCULOSIS, 1955 June p. 102.

Long, William E., and George A. Doumani. THE ANCIENT LIFE OF THE ANTARCTIC, 1962 Sept. p. 168. [863]

Lonsdale, Kathleen. HUMAN STONES, 1968 Dec. p. 104.

Loomis, Robert S. AGRICULTURAL SYSTEMS, 1976 Sept. p. 98.

Loomis, W F. the sex gas of hydra, 1959 Apr. p. 145; rickets, 1970 Dec. p. 76. [1207]

Lore, Richard, and Kevin Flannelly. RAT SOCIETIES, 1977 May p. 106. [577]

Lorenz, Konrad Z. THE EVOLUTION OF BEHAVIOR, 1958 Dec. p. 67. [412]

Losick, Richard, and Phillips W. Robbins. THE RECEPTOR SITE FOR A BACTERIAL VIRUS, 1969 Nov. p. 120. [1161]

Lounasmaa, O. V. NEW METHODS FOR APPROACHING ABSOLUTE ZERO, 1969 Dec. p. 26. Loutit, John F. Ionizing Radiation and the WHOLE ANIMAL, 1959 Sept. p. 117.

Love, R. Merion. the rangelands of the western us, 1970 Feb. p. 88.

Lovell, A. C. B. RADIO STARS, 1953 Jan. p. 17. Lovell, Sir Bernard. RADIO-EMITTING FLARE STARS, 1964 Aug. p. 13.

Lovewell, Paul J. THE USES OF FISSION PRODUCTS, 1952 June p. 19.

Lowdermilk, Walter C. THE RECLAMATION OF A MAN-MADE DESERT, 1960 Mar. p. 54. Lowenstein, Edward, and Peter M. Winter.

ACUTE RESPIRATORY FAILURE, 1969 Nov. p. 23.
Lown, Bettiard, intensive heart care, 1968
July d. 19.

Lowry, William P. THE CLIMATE OF CITIES, 1967 Aug. p. 15. [1215]

Lubin, Moshe J., and Arthur P. Fraas, Fusion by LASER, 1971 June p. 21.

Luff, Peter P. THE ELECTRONIC TELEPHONE, 1978 Mar. p. 58. [3002]

Luling, K. H. The archer fish, 1963 July p. 100. Luria, A. R. The functional organization of the brain, 1970 Mar. p. 66. [526]

Luria, Salvador E. the 12 Mystery, 1955 Apr. p. 92 [24]; the recognition of DNA in Bacteria. 1970 Jan. p. 88 [1167]; colicins

N

Macalpine, Ida, and Richard Hunter. PORPHYRIA AND KING GEORGE III, 1969 July p. 38. [1149] Macdougall, J. D. FISSION-TRACK DATING, 1976 Dec. p. 114.

MacGregor, Ian D., and Bruce C. Heczen. THE EVOLUTION OF THE PACIFIC, 1973 Nov. p. 102. [911]

Mach, William H., and Alistair B. Fraser, MIRAGES, 1976 Jan. p. 102.

MacInnes, Joseph B. LIVING UNDER THE SEA. 1966 Mar. p. 24. [1036]

MacInnis, Duncan A. ph. 1951 Jan. p. 40. MacIntyre, Ferren. why the sea is salt, 1970 Nov. p. 104 [893]; the top millimeter of the Ocean, 1974 May p. 62, [913]

Mackintosh, A. R. THE FERMI SURFACE OF METALS, 1963 July p. 110.

MacLachlan, James, and Stillman Drake. GALILEO S DISCOVERY OF THE PARABOLIC TRAJECTORY, 1975 Mar. p. 102.

MacNeish, Richard S. Theorigins of New World civilization, 1964 Nov. p. 29 [625]: Early Man In the Andes, 1971 Apr. p. 36.

MacNichol, Edward F., Jr. THREL PIGMENT COLOR VISION, 1964 Dec. p. 48. [197] Maddin, Robert, James D. Muhly and Tamara

S. Wheeler, How the IRON AGE BLG N., 1977
Oct. p. 122. [699]

Maffei, Lamberto, and Fergus W. Campbell CONTRAST AND SPATIAL FREQUENCY, 1974 Nov p. 106. [1308]

Maio, Joseph J. PREDATORY FUNGI, 1958 July p. 67.

Maiuri, Amedeo, Pompeii, 1958 Apr. p. 68 Makaronas, Ch. J. Pella Capital of ancient Macedonia, 1966 Dec. p. 98.

Malefijt, Annemarie de Waal, nono Monstrosus, 1968 Oct. p. 112

Malkus, Joanne Starr, Trade-wind Clouds, 1953 Nov. p. 31; the origin of hurricants, 1957 Aug. p. 33, [847]

Malkus, Joanne Starr, and R. H. Simpson EXPERIMENTS IN HURRICANE MODIFICATION. 1964 Dec. p. 27.

Mallina, R. F. Theodore R. Miller, Philip Cooper and Stanley G. Christic surgical STAPLING, 1962 Oct. p. 48 Malm, John G., Henry Selig and Howard H.

- Maran, Stephen P. THE GUM NEBULA, 1971 Dec. p. 20.
- Marcker, Kjeld A., and Brian F. C. Clark. How PROTEINSSTART, 1968 Jan. p. 36. [1092]
- Margaria, Rodolfo. THE SOURCES OF MUSCULAR ENERGY, 1972 Mar. p. 84. [1244]
- Margulis, Lynn. symbiosis and evolution, 1971 Aug. p. 48. [1230]
- Mark, Herman F. Giant molecules, 1957 Sept. p. 80; the nature of polymeric materials, 1967 Sept. p. 148.
- Mark, Robert. The Structural analysis of Gothic Cathedrals, 1972 Nov. p. 90.
- Marples, Mary J. LIFE ON THE HUMAN SKIN, 1969 Jan. p. 108. [1132]
- Marrazzi, Amedeo S. Messengers of the NERVOUS SYSTEM, 1957 Feb. p. 86.
- Marsden, Sullivan S., Jr. DRILLING FOR PETROLEUM, 1958 Nov. p. 99.
- Marsden, Sullivan S., Jr., and Stanley N. Davis. GEOLOGICAL SUBSIDENCE, 1967 June p. 93.
- Marshak, Robert E. The energy of stars, 1950 Jan. p. 42; the multiplicity of particles, 1952 Jan. p. 22; pions, 1957 Jan. p. 84 [226]; The nuclear force, 1960 Mar. p. 98. [269]
- Marshall, A. J. Bower Birds, 1956 June p. 48. Marshall, Donald Stanley. THE SETTLEMENT OF POLYNESIA, 1956 Aug. p. 58.
- Marsland, Douglas, CELLS AT HIGH PRESSURE, 1958 Oct. p. 36.
- Martell, E. A., and James R. Arnold. THE CIRCULATION OF RADIOACTIVE ISOTOPES, 1959 Sept. p. 84.
- Martin, Paul S. THE PEOPLES OF PINE LAWN VALLEY, 1951 July p. 46.
- Mason, B. J. THE GROWTH OF SNOW CRYSTALS, 1961 Jan. p. 120.
- Mason, Brian. Organic matter from space, 1963 Mar. p. 43; the lunar rocks, 1971 Oct. p. 71.
- Mason, Edward S. The Planning of DEVELOPMENT, 1963 Sept. p. 235.
- Masserman, Jules H. EXPERIMENTAL NEUROSES, 1950 Mar. p. 38. [443]
- Massey, A. G. BORON, 1964 Jan. p. 88.
- Mather, Keith B. why do roads corrugate?, 1963 Jan. p. 128 Matthes, Gerard H. paradoxes of the
- MISSISSIPPI, 1951 Apr. p. 18 [836]; QUICKSAND, 1953 June p. 97.
- Matthews, Larry S., David A. Sonstegard and Herbert Kaufer the Surgical Replacement of the Human Knee Joint, 1978 Jan. p 44. [1378]
- Matthews, Robert W., and Howard E. Evans.
 THE SAND WASPS OF AUSTRALIA, 1975 Dec.
 p. 108.
- Matthias, B. T SUPERCONDUCTIVITY, 1957 Nov p. 92, [227]
- Majyanak, Kenneth A., and Laurence Jay Stettner, THE BRAIN OF BIRDS, 1968 June p. 64 [515]
- Mausner, Bernard and Judith. A STUDY OF THE ANTI SCIENTIFIC ATTITUDE, 1955 Feb p 35. [453]
- Mawson, C. A. GENLVA BIOLOGY, 1955 Oct p. 38.
- Maxwell, James R., Geoffrey Eghnton and Colin T. Pillinger, THE CARBON CHI MISTRY OF THE MOON, 1972 Oct. p. 80.
- May, Jacques M. THI GLOGRAPHY OF DISEASE, 1953 Feb. p. 22.
- Mayer, Cornell H. THE TEMPERATURES OF THE LANETS, 191 May p. 58.
- Mayer, Jean, Appendie and Obesity, 1956 Nov p. 108; the Divil Ssions of Human Hunger, 1976 Sept. p. 40.

- Mayer, Manfred M. THE COMPLEMENT SYSTEM, 1973 Nov. p. 54. [1283]
- Mayer, Maria G. THE STRUCTURE OF THE NUCLEUS, 1951 Mar. p. 22. [228]
- Mayer-Oakes, William J. EARLY MAN IN THE ANDES, 1963 May p. 116.
- Mayerson, H. S. THE LYMPHATIC SYSTEM, 1963 June p. 80. [158]
- Mayo, John S. Pulse-code modulation, 1968 Mar. p. 102; the role of microelectronics in communication, 1977 Sept. p. 192. [382]
- Mayr, Otto. THE ORIGINS OF FEEDBACK CONTROL, 1970 Oct. p. 110.
- Mazia, Daniel. CELL DIVISION, 1953 Aug. p. 53 [27]; HOW CELLS DIVIDE, 1961 Sept. p. 100 [93]; THE CELL CYCLE, 1974 Jan. p. 54. [1288]
- McCarthy, John. INFORMATION, 1966 Sept. p. 64. McCarthy, Maclyn, and Earl H. Freimer. RHEUMATIC FEVER, 1965 Dec. p. 66.
- McCarthy, Richard E., and Peter C. Hinkle How CELLS MAKE ATP, 1978 Mar. p. 104. [1383]
- McChesney, Malcolm. SHOCK WAVES AND HIGH TEMPERATURES, 1963 Feb. p. 109.
- McClain, Edward F., Jr. the 600-FOOT RADIO TELESCOPE, 1960 Jan. p. 45.
- McCosker, John E. Flashlight fishes, 1977 Mar. p. 106. [693]
- McCracken, Daniel D. THE MONTE CARLO METHOD, 1955 May p. 90.
- McDermott, Walsh, AIR POLLUTION AND PUBLIC HEALTH, 1961 Oct. p. 49. [612]
- McDonald, James E. The coriolis effect, 1952 May p. 72 [839]; The Earth's electricity, 1953 Apr. p. 32; The shape of Raindrops, 1954 Feb. p. 64.
- McElroy, William D., and C. P. Swanson. TRACE ELEMENTS, 1953 Jan. p. 22.
- McElroy, William D., and Howard H. Seliger. BIOLOGICAL LUMINESCENCE, 1962 Dec. p. 76. [141]
- McEwen, Bruce S. Interactions between hormones and nerve tissue, 1976 July p. 48. 113411
- McGhee, Robert J., and James A. Tuck, AN ARCHAIC INDIAN BURIAL MOUND IN LABRADOR, 1976 Nov. p. 122.
- McGuire, James B., Eugene R. Spangler and Lem Wong. The SIZE OF THE SOLAR SYSTEM, 1961 Apr. p. 64
- McIniyre, Hugh C. Natural-uranium heavywater reactors, 1975 Oct. p. 17.
- McIrvine, Edward C, and Myron Tribus. ENERGY AND INFORMATION, 1971 Sept. p. 179. [670]
- McKenzie, D. P., and Frank Richter. CONVECTION CURRENTS IN THE EARTH'S MANTLE, 1976 Nov. p. 72. [921]
- McKenzie, D.P., and J.G. Sclater. THE EVOLUTION OF THE INDIAN OCEAN, 1973 May p. 62. [908]
- McKusick, Victor A. Heart sounds, 1956 May p 120; the royal hemophilia, 1965 Aug. p. 88; the mapping of human chromosomes, 1971 Apr p. 104. [1220]
- McKusick, Victor A., and David L. Rimoin. GENERAL TOM THUMB AND OTHER MIDGETS, 1967 July p. 102
- McLaughlin, John J. A., and S. H. Hutner, POISONOUS TIDES, 1958 Aug. p. 92.
- McLean, Franklin C Bone, 1955 Feb p. 84. McMahon, Thomas A. THE MECHANICAL DESIGN OF TREES, 1975 July p. 92.
- McNeil, Mary LATERITIC SOILS, 1964 Nov. p. 96. [870]
- McNown, John S. Canals in America, 1976 July p 116.

- McQueen, Hugh J., and W. J. McGregor Tegart. THE DEFORMATION OF METALS AT HIGH TEMPERATURES, 1975 Apr. p. 116.
- McVay, Scott. THE LAST OF THE GREAT WHALES, 1966 Aug. p. 13.
- McWhorter, Eugene W. THE SMALL ELECTRONIC CALCULATOR, 1976 Mar. p. 88.
- Mead, Carver A., and Ivan E. Sutherland. MICROELECTRONICS AND COMPUTER SCIENCE, 1977 Sept. p. 210. [383]
- Medawar, P. B. skin transplants, 1957 Apr. p. 62.
- Meen, V. B. THE CANADIAN METEOR CRATER, 1951 May p. 64.
- Meeuse, Bastiaan J. D. THE VOODOO LILY, 1966 July p. 80.
- Meggers, Betty J., and Clifford Evans. A TRANS-PACIFIC CONTACT IN 3000 B C., 1966 Jan. p. 28.
- Meggers, William F. MEASUREMENT BY MERCURY, 1948 Aug. p. 48.
- Meindl, James D. MICROELECTRONIC CIRCUIT ELEMENTS, 1977 Sept. p. 70. [375]
- Melbourne, William G. NAVIGATION BETWEEN THE PLANETS, 1976 June p. 58.
- Mellaart, James. Hacilar- a neolithic village site, 1961 Aug. p. 86; a neolithic city in turkey, 1964 Apr. p. 94. [620]
- Mellink, Machteld J. THE CITY OF MIDAS, 1959
 July p. 100.
- Mellinkoff, Sherman M. CHEMICAL INTERVENTION, 1973 Sept. p. 102.
- Mellor, John W. THE AGRICULTURE OF INDIA, 1976 Sept. p. 154.
- Melman, Seymour. INDUSTRIAL PRODUCTIVITY, 1955 July p. 33.
- Melnick, Joseph L. a new era in polio research, 1952 Nov. p. 26; viruses within cells, 1953 Dec. p. 38; enteroviruses, 1959 Feb. p. 88.
- Melnick, Joseph L., and Fred Rapp. THE FOOTPRINTS OF TUMOR VIRUSES, 1966 Mar. p. 34.
- Melnick, Joseph L., Gordon R. Dreesman and F. Blaine Hollinger, VIRAL HEPATITIS, 1977 July p. 44. [1365]
- Melzack, Ronald, the Perception of Pain, 1961 Feb. p. 41. [457]
- Melzack, Ronald, and William R. Thompson. EARLY ENVIRONMENT, 1956 Jan. p. 38. [469]
- Menaker, Michael. NONVISUAL LIGHT RECEPTION, 1972 Mar. p. 22. [1243]
- Menard, Henry W. Fractures in the pacific floor, 1955 July p. 36; the east pacific rise, 1961 Dec. p. 52; the deep-ocean floor, 1969 Sept. p. 126. [883]
- Mengel, John T., and Paul Herget, TRACKING SATELLITES BY RADIO, 1958 Jan. p. 23. Mermin, N. David, and David M. Lee.
- SUPERFLUID HELIUM 3, 1976 Dec. p. 56.
 Mero, John L. Minerals on the Ocean Floor,
- 1960 Dec. p. 64.
 Merrifield, R. B. THE AUTOMATIC SYNTHESIS OF
- proteins, 1968 Mar. p. 56. [320] Methil, John P. the transplantation of the kidney, 1959 Oct. p. 57; the artificial kidney, 1961 July p. 56.
- Merriman, Daniel, THE CALEFACTION OF A RIVER, 1970 May p. 42. [1177]
- Metion, P. A. How WE CONTROL THE CONTRACTION OF OUR MUSCLES, 1972 May p. 30, [1249]
- Meselson, Maithew S. CHENICAL AND BIOLOGICAL WEAPONS, 1970 May p. 15. Metcalf, Robert L. INSECTS V. INSECTICIDES, 1952
- Oct. p. 21.
 Metelli, Fabio. The perception of
 Transparency, 1974 Apr. p. 90, [559]

Metherell

Index to Authors

Metherell, Alexander F. Acoustical Holography, 1969 Oct. p. 36. Meyerhof, Otto. Biochemistry, 1950 Sept. p. 62. Michael, Charles R. Retinal processing of VISUAL IMAGES, 1969 May p. 104. [1143] Michaels, Walter C. The Teaching of Elementary Physics, 1958 Apr. p. 56. [229] Mick, Stephen S. The Foreign Medical Graduate, 1975 Feb. p. 14.

Mickelwait, Aubrey B., Edwin H. Tompkins, Jr., and Robert A. Park, INTERPLANETARY NAVIGATION, 1960 Mar. p. 64.

Miley, George K., Richard G. Strom and Jan H. Oort, Giant Radio Galaxies, 1975 Aug. p. 26. Milgram, Stanley, Nationality and

CONFORMITY, 1961 Dec. p. 45.
Miller, George A. Information and Memory,

1956 Aug. p. 42. [419]
Miller, Jack Robert, THE DIRECT REDUCTION OF

IRON ORE, 1976 July p. 68.

Miller, Joseph S. THE STRUCTURE OF EMISSION
NEBULAS 1974 Oct p. 24

NEBULAS, 1974 Oct. p. 34. Miller, O. L., Jr. the visualization of genes in

ACTION, 1973 Mar. p. 34. [1267]
Miller, Patrick M. The Crashworthiness of

AUTOMOBILES, 1973 Feb. p. 78.
Miller, Ralph L., and James R. Gill. URANIUM
FROM COAL, 1954 Oct. p. 36.

Miller, Stewart E. COMMUNICATION BY LASER, 1966 Jan. p. 19.

Miller, Theodore R., R. F. Mallina, Philip Cooper and Stanley G. Christie. SURGICAL STAPLING, 1962 Oct. p. 48.

Miller, Warren E., Angus Campbell and Gerald Gurin. TELEVISION AND THE ELECTION, 1953 May p. 46; THE ELECTORAL SWITCH OF 1952, 1954 May p. 31.

Miller, William H., Floyd Rathif and H. K. Hartline. How CELLS RECEIVE STIMULI, 1961 Sept. p. 222. [99]

Millon, René. TEOTHUACAN, 1967 June p. 38 Millot, Jacques, THE COELACANTH, 1955 Dec. p. 34, [831]

Milne, Lorus J. and Margery J. Insect vision, 1948 July p. 42; right hand left hand, 1948 Oct. p. 46; temperature and life, 1949 Feb. p. 46; animal courtship, 1950 July p. 52; the eelgrass catastrophe, 1951 Jan. p. 52; how animals change color, 1952 Mar. p. 64; electrical events in vision, 1956 Dec. p. 113; the social bi havior of burying beftles, 1976 Aug. p. 84 [1344]; insects of the water suppact. 1978 Apr. p. 134 [1387] Milner, Hafold W. algae as food, 1953 Oct. p. 31.

Minkowski, Rudolph, COLLIDING GALANIES, 1956 Sept. p. 125.

Minsky, Marvin L. ARTIFICIAL INTELLIGENCE,

Moffett, James W., and Vernon C. Applegate. THE SEA LAMPREY, 1955 Apr. p. 36.

Molnar, Peter, and Paul Tapponnier, THE COLLISION BETWEEN INDIA AND EURASIA, 1977 Apr. p. 30. [923]

Monroy, Alberto. FERTILIZATION OF THE EGG, 1950 Dec. p. 46.

Montagna, William. THESKIN, 1965 Feb. p. 56. [1003]

Montagu, Ashley. "SOCIAL INSTINCTS." 1950 Apr. p. 54.

Montgomery, G. Franklin, PRODUCT TECHNOLOGY AND THE CONSUMER, 1977 Dec. p. 47. [703]

Montgomery, P. O'B., and W. A. Bonner. A
"FLYING SPOT" MICROSCOPE, 1958 May p. 38.
Montie, Thomas C., Solomon Kadis and Samuel
J. Ajl, PLAGUE TOXIN, 1969 Mar. p. 92.

Moog, Florence. THE BIOLOGY OF OLD AGE, 1948
June p. 40; GULLIVER WAS A BAD BIOLOGIST,
1948 Nov. p. 52; UP FROM THE EMBRYO, 1950
Feb. p. 52.

Moorbath, Stephen. The oldest rocks and the growth of continents, 1977 Mar. p. 92. [357]

Moore, A. D. ELECTROSTATICS, 1972 Mar. p. 46.
Moore, Edward F ARTIFICIAL LIVING PLANTS,
1956 Oct. p. 118; MATHEMATICS IN THE
BIOLOGICAL SCIENCES, 1964 Sept. p. 148
Moore, Geoffrey H. THE ANALYSIS OF ECONOMIC

INDICATORS, 1975 Jan. p. 17.
Moore, Peter B., and Donald M. Engelman.
NEUTRON-SCATTERING STUDIES OF THE

NEUTRON-SCATTERING STUDIES OF THE RIBOSOME, 1976 Oct. p. 44. Moore, Stanford, and William H. Stein

CHRONATOGRAPHY, 1951 Mar. p. 35 [81]; THE CHEMICAL STRUCTURE OF PROTEINS, 1961 Feb p. 81.

Moores, Eldridge M., and James W. Valentine PLATL TECTONICS AND THE HISTORY OF LIFE IN THE OCEANS, 1974 Apr. p 80. [912]

Morehead, Frederick F. Jr. LIGHT-EMITTING SEMICONDUCTORS, 1967 May p. 108 Morehead, Frederick F. Jr., and Billy L. Crowder, ION IMPLANTATION, 1973 Apr. p. 64 Morgan, W. W. THE SPIRAL STRUCTURE OF THE GALANY, 1955 May p. 42.

Morgenstern, Oskar THE THEORY OF GAMES, 1949 May p. 22.

Morison, Robert S. Dying, 1973 Sept. p. 54 Morowitz, Harold J., and Elliot A. Lapan, The Mesozoa, 1972 Dec. p. 94. [1262]

Morowitz, Harold J., and Mark E. Tourtellotte THE SMALLEST LIVING CHEES, 1962 Mar. p. 117 110051

Morris, Carl, and Bradley Efron Stein's PARADON INSTATISTICS, 1977 May p. 119, [363] Morrison, David, and Dale P. Cruikshank, 1111 GALILEAN SATELLITIS OF ICHID R, 1976 May Moscona, A. A. Tissues from dissociated Cells, 1959 May p. 132; how cells associate, 1961 Sept. p. 142.

Mosher, Ralph S. Industrial Manipulators, 1964 Oct. p. 88.

Mott, Sir Nevill, the solid state, 1967 Sept p. 80.

Movius, Hallam L., Jr. Archaeology and the Earliest art, 1953 Aug. p. 30.

Miosovsky, N. the adjustable brain of hibernators, 1968 Mar. p. 110

Mudd, Stuart, THE STAPHY LOCOCCUS, PROBLEM, 1959 Jan. p. 41.

Muhly, James D., Robert Maddin and Tamara S. Wheeler, HOW THE IRON AGE BEG V., 1977 Oct. p. 122, [699]

Müller, Erwin W. a new Microscope, 1952 May p. 58; atoms visualized, 1957 June p. 113

Muller, H. J. RADIATION AND HUMAN MUTATION. 1955 Nov. p. 58. [29]

Muller, Richard A. THE COSMIC BACKGROUND RADIATION AND THE NEW ALTHER DRIFT, 1978 May p. 64, [3008]

Müller-Beck, Hansjürgen, Prehistoric Swiss Lake Dwellers, 1961 Dec. p. 138

Mulvaney, D. J. THE PREHISTORY OF THE AUSTRALIAN ABORIGINE, 1966 Mar. p. 84 [628] Munk, Walter the circulation of the octans.

1955 Sept. p. 96. [813] Munn, Norman L. THE EVOLUTION OF MIND. 1957 June p. 140

Muntz, W. R. A VISION IN FROGS, 1964 Mar p. 110

Murça-Pires, João, and Theodosius

Dobzhansky strangler treis, 1954 Jan

D 78

p 78
Murphy, Frederick, and David E. Yount
PHOTONS AS HADRONS, 1971 July p 94
Murphy, Robert Cushman, the Octanical of
THE ANTARCTIC, 1962 Sept p 186
Murray, Bruce C. Mars from Mariner 3, 1973

Jan p 48, MERCURY, 1975 Sept p 58 Murray, Bruce C, and James A Westphal INFRARED ASTRONOMY, 1965 Aug p 20

Murray, John M., and Annemane Weber 11th COOPLRATIVE ACTION OF MUSCLE PROTEINS, 1974 Feb. p. 58 [1290]

Muyderman, E. A. BEARINGS, 1966 Mar. p. 60. Myers, Henry R. Extending the Section fest BAN, 1972 Jan. p. 13. [343]

Myers, Joel N. 100, 1968 Dec. p. 74 [576] Myers, Judith H., and Charles J. Krebs POPULATION CYCLES IS RODENTS, 1974 June p. 38 [1296]

Mykytowycz, Roman i chritoriae markino se rabbity, 1963 May p. 116 [1105] Mylonas, George E. Mychaf City of Agamembos, 1954 Dec. p. 72 Myrdal, Alsa the petras allocatic structs Namias, Jerome, the jet stream, 1952 Oct. p 26; Long-range weather forecasting, 1955 Aug p. 40.

Nance, Dana K, and William F. Hamilton II. SYSTEMS ANALYSIS OF URBAN TRANSPORTATION, 1969 July p. 19.

Napier, John. The evolution of the hand, 1962 Dec. p. 56 [140]; The antiquity of human walking, 1967 Apr. p. 56. [1070]

Nathanson, James A, and Paul Greengard
"SECOND MESSENGERS" IN THE BRAIN, 1977 Aug.
p. 108 [1368]

Naita, Giulio, how giant molecules are Made, 1957 Sept. p. 98; precisely constructed polymers, 1961 Aug. p. 33 [315]

Naylor, Aubrey W. THE CONTROL OF FLOWERING, 1952 May p 49. [113]

Needham, Paul R THE MORTALITY OF TROUT, 1953 May p. 81.

Nel, John U. an early energy crisis and its consequences, 1977 Nov. p. 140. [391]

Negrete, Vida Francis, and Barbara M. Korsch. DOCTOR PATIENT COMMUNICATION, 1972 Aug p. 66.

Neiburger, Morris, and Harry Wexler. WEATHER SATELLITES, 1961 July p. 80.

Neisser, Ulnic visual search, 1964 June p. 94 [486], the processes of vision, 1968 Sept. p. 204. [519]

Neisser, Ultic, and Oliver G. Selfridge. Pattern recognition by Machine, 1960 Aug p 60 Nelkin, Dorothy. The science Textbook

controversies, 1976 Apr. p. 33. Nelson, Donald F. the modulation of laser

LIGHT, 1968 June p. 17.

Neugebauer, G., and Eric E. Becklin THE

BRIGHTEST INFRARED SOURCES, 1973 Apr.

178

Neugebauer, G, and Robert B Leighton. THE INFRARED SKY, 1968 Aug p 50

Neurath, Hans Protein digesting enzymes, 1964 Dec p 68

Neutra, Marian, and C. P. Leblond. THE GOLGI APPARATLS, 1969 Feb. p. 100 [1134]

Neville, C, Mirram Rothschild, Y Schlein, K Parker and S Sternberg, THE FLYING LEAP OF THE FLEA, 1973 Nov p 92. [1284]

Nevins, James L., and Daniel E. Whitney COMPUTER CONTROLLED ASSEMBLY, 1978 Feb p. 62 [396]

Newell, Homer E., Jr THE SATELLITE PROJECT. 1955 Dec. p. 29

Newell, Norman D CRISES IN THE HISTORY OF LIFE, 1963 Feb p 76 [867], THE EVOLUTION OF REEFS, 1972 June p 54 [901]

Newell, Reginald E. The circulation of the Upper atmosphere, 1964 Mar p 62, the Global circulation of atmospheric follutants, 1971 Jan p 32 [894]

Newgard, John J., and Myron Levoy NUCLEAR ROCKETS, 1959 May p 46 Newman, J. N., and Halsey C. Herreshoff the

STLDY OF SAILING YACHTS, 1966 AUG. p 60
Neaman, James R. Srininasa Ramanujan, 1948
June p 54, editor of mathematical
Creation, by Henri Poincare, 1948 Aug. p 54, the Rhind Papyrus, 1952 Aug. p 24.
WILLIAM KINGDON CLIFFORD, 1953 Feb p 78.
editor of Leonhard Euler and the
Roeningsberg Bridges, 1953 July p 66.
Francisgalton, 1954 Jan p 72, Laplace,
1954 June p 76, James Clerk Maxwell, 1955
June p, 58

Neuman, James R, and Ernest Nagel GODEL'S TROOF, 1956 June p. 71

Ney, Edward P HEAVY LLEMENTS FROM SPACE. 1951 May p. 26

Neyman, Jerzy, and Elizabeth L. Scott, The DISTRIBUTION OF GALAXIES, 1956 Sept. p. 187. Nicholas, Brother G, F.S.C. LIFE IN CAVES, 1955 May p. 98.

Nicholls, John G., and David Van Essen. THE NERVOUS SYSTEM OF THE LEECH, 1974 Jan. p. 38. [1287]

Nichols, John R. How opiates Change Behavior, 1965 Feb. p. 80.

Nicolai, Jurgen. MIMICRY IN PARASITIC BIRDS, 1974 Oct. p. 92.

Niederhauser, John S, and William C. Cobb. THE LATE BLIGHT OF POTATOES, 1959 May p. 100. [109]

Niemi, Richard G, and William H. Riker the CHOICE OF VOTING SYSTEMS, 1976 June p. 21. [689]

Nier, Alfred O. C. the mass spectrometer, 1953 Mar. p 68. [256]

Nieto, Michael Martin, and Alfred Scharff Goldhaber. THE MASS OF THE PHOTON, 1976 May p. 86

Nirenberg, Marshall W THE GENETIC CODE II, 1963 Mar p. 80 [153]

Nishijima, Yasunori, and Gerald Oster. Moire PATTERNS, 1963 May p. 54. [299]

Noller, Carl H., Jules Janick and Charles L. Rhykerd, the cycles of plant and animal nutrition, 1976 Sept. p 74

Nomura, Masayasu RIBOSOMES, 1969 Oct p. 28. [1157]

Nord, F. F., and Walter J Schubert. LIGNIN, 1958 Oct p 104

North, J D THE ASTROLABE, 1974 Jan. p 96 Nossal, G J V HOW CELLS MAKE ANTIBODIES, 1964 Dec. p 106 [199]

Notestein, Frank W POPULATION, 1951 Sept n 28

Notkins, Abner Louis, and Hilary Koprowski. HOW THE IMMUNE RESPONSE TO A VIRUS CAN CAUSE DISEASE, 1973 Jan p 22 [1263]

Noton, David, and Lawrence Stark. EYE MOVEMENTS AND VISUAL PERCEPTION, 1971 June p. 34 [537]

Noyce, Robert N MICROELECTRONICS, 1977 Sept p 62 [374]

Nuckolls, John, John L Emmett and Lowell Wood Fusion Power by LASER IMPLOSION, 1974 June p 24

Nussenzveig, H Moyses the theory of the RAINBOW, 1977 Apr p 116 [361]

O

Oberteuffer, John, Henry H. Kolm and David Kelland HIGH GRADIENT MAGNETIC SEPARATION, 1975 Nov p 46

O'Brien, Brian J RADIATION BELTS, 1963 May p 84

O'Connell, D. J. K., S.J. THE GREEN FLASH, 1960 Jan. p. 112.

Octunger, Anthony G THE USES OF COMPUTERS
IN SCIENCE, 1966 Sept p 160

Ogilvie, Sir Heneage surgical stitching, 1950 Nov p 44, surgical cutting, 1951 Nov p 62

O'Hara, Charles E., and James W. Osterburg. INCRIMINATING STAINS, 1953 Feb. p. 58 Okazaki, Kayo, and Shinya Inque Biogrystals, 1977 Apr. p. 82 [1357]

O'Keefe, John A TENTITES AND IMPACT FRAGMENTS FROM THE MOON, 1964 Feb p 50 Okladnikov, A. P. The petroglyphs of Siberia, 1969 Aug. p. 74 [649]

Old, Bruce S, and Leonard V. Gallagher, THE CONTINUOUS CASTING OF STEEL, 1963 Dec. p. 74.

Old, Lloyd J. CANCER IMMUNOLOGY, 1977 May p. 62. [1358]

Old, Lloyd J., Edward A Boyse and H. A. Campbell. Lasparagine and Leukenia, 1968 Aug. p. 34

Oldham, William G. THE FABRICATION OF MICROELECTRONIC CIRCUITS, 1977 Sept. p. 110. [377]

Olds, James. Pleasure centers in the Brain, 1956 Oct. p. 105. [30]

Oliver, Bernard M. THE ROLE OF MICROELECTRONICS IN INSTRUMENTATION AND CONTROL. 1977 Sept. p. 180. [381]

Oliver, Jack. Long Earthquake waves, 1959 Mar. p. 131.

Olmsied, J. M. D. father of aviation Medicine, 1952 Jan. p. 66.

Olton, David S. SPATIAL MEMORY, 1977 June p. 82. [578]

O'Malley, Bert W., and William T. Schrader. THE RECEPTORS OF STEROID HORMONES, 1976 Feb. p. 32 [1334]

O'Neill, Gerard K. THE SPARK CHAMBER, 1962 Aug p. 36 [282]; PARTICLE STORAGE RINGS, 1966 Nov. p. 107. [323]

Oort, Abraham H THE ENERGY CYCLE OF THE EARTH, 1970 Sept. p. 54. [1189]

Ooti, Jan H. The Evolution of Galaxies, 1956 Sept. p. 100, the crab nebula, 1957 Mar. p. 52.

Oort, Jan H, Richard G. Strom and George K. Miley, GIANT RADIO GALAXIES, 1975 Aug p. 26.

Ópik, Ernst J. CLIMATE AND THE CHANGING SUN, 1958 June p. 85. [835]

Opler, Marvin K. Schizophrenia and culture, 1957 Aug. p. 103.

Oppenheimer, J. R. THE AGE OF SCIENCE. 1900-1950 1950 Sept. p 20.

Orowan, Egon, the origin of the oceanic ridges, 1969 Nov p. 102.

Off, Clyde, Jr. fine particles, 1950 Dec. p. 50 Oster, Gerald. Polyethylene, 1957 Sept p. 139; Density gradients, 1965 Aug. p. 70, the Chemical effects of light, 1968 Sept. p. 158; Phosphenes, 1970 Feb. p. 82; Auditory Beats in the Brain, 1973 Oct. p. 94. [1282]

Oster, Gerald, and Yasunori Nishijima. Moire PATTERNS, 1963 May p. 54. [299]

Osterburg, James W, and Charles E. O'Hara. INCRIMINATING STAINS, 1953 Feb. p. 58.

Ostriker, Jeremiah P. THE NATURE OF PULSARS, 1971 Jan. p. 48

Ostwald, Peter F. Acoustic METHODS IN PSYCHIATRY, 1965 Mar. p. 82. [492]

Osiwald, Peter F., and Philip Pelizman. The CRY OF THE HUMAN INFANT, 1974 Mar. p 84. [558]

Overseth, Oliver E. Experiments in time REVERSAL, 1969 Oct. p. 88.

Oxenstierna, Eric. the Vikings, 1967 May p. 66 Ozgüç, Tahsin. an assyrian trading outpost, 1963 Feb. p. 96; ancient ararat, 1967 Mar p. 38

P

Pacini, Franco, and Martin J. Rees Rotation in High energy astrophysics, 1973 Feb. p. 98 Page, Irvine H. High blood pressure, 1948 Aug. p. 44, serotonin, 1957 Dec. p. 52.

- Page, Irvine H., F. Merlin Bumpus and Hans J. Schwartz, Assolori 8818, 1939 Mar. p. 54.
- Paige, Jeffery M., and Nathan S. Caplan, x Stepy of Gir (10 Rio) 188, 1968 Aug. p. 15, [638]
- Pake, George E. MAGNI HURRISONANGI, 1958 Aug. p. 58, [233]
- Palmer, Frederic, Eriction, 1951 Feb. p. 54 Palmer, John D. morodic at Crocksof the TIDAL 2081, 1975 Feb. p. 70, [1316]
- Panish, Morton B., and Iruo Hayashi, a saw Class of Diode Cost 8, 1971 July p. 32.
- Panofsky, Wolfgang, tili tisi akacciti katon, 1954 Oct. p. 40. [234]
- Panofsky, Wolfgang, and Henry W. Kendall. 110. Stite Civilli of the Professional Diff Station, 1971 June p. 60.
- Pant, Pitambar, THE DEVELOPMENT OF INDIA, 1963 Sept. p. 189.
- Papadimitriou, Christos II., and Harry R. Lewis 101 (1) ICENSE OF ALGORITHMS, 1978 Jan. p. 96. [395]
- Papadinutriou, John, THE SANCTUARY OF ARTEMISAT BRAUBON, 1963 June p. 110.
- Pappenheimer, A. M., Jr. thi, pirittingly foxis, 1952 Oct. p. 32.
- Pappenheimer, John R. THE SEFEPT ACTOR, 1976 Aug. p. 24, [571]
- Parducci, Allen, the relativism of absolute, judgments, 1968 Dec. p. 84, [518]
- Park, Robert A., Aubrey B. Mickelwait and Edwin H. Tompkins, Jr. INTERPLANETARY NAVIGATION, 1960 Mar. p. 64.
- Parker, E. N. THE SOLAR WIND, 1964 Apr. p. 66. THE SUN, 1975 Sept. p. 42.
- Parker, Earl R., and Victor F. Zackay, strong and ductile street, 1968 Nov. p. 36.
- Parker, K., Miriam Rothschild, Y. Schlein, C. Neville and S. Sternberg, THE FLYING LEAP OF THE FLEA, 1973 Nov. p. 92, [1284]
- Parker, William H., Barry N. Taylor and Donald N. Langenberg, the Fundamental Physical constants, 1970 Oct. p. 62, [337]
- Parkes, A. S. THE FREEZING OF LIVING CELLS, 1956 June p. 105.
- Parkin, Curtis W., and Palmer Dyal. THE MAGNETISM OF THE MOON, 1971 Aug. p. 62.
- Parks, R. D. Quantum effects in superconductors, 1965 Oct. p. 57.
- Parr, Peter J. THE CAPITAL OF THE NABATAEANS, 1963 Oct. p. 94.
- Parsons, James J. NATURAL GAS, 1951 Nov. p. 17. Parsons, James J., and William M. Denevan. PRE-COLUMBIAN RIDGED FIELDS, 1967 July p. 92.
- Pasachoff, Jay M. THE SOLAR CORONA 1973 Oct.
- Pasachoff, Jay M., and William A. Fowler.
 DEUTERIUM IN THE UNIVERSE, 1974 May p. 108.
 Pastan, Ira. CYCLIC AMP, 1972 Aug. p. 97. [1256]
 Pastore, Nicholas. LEARNING IN THE CANARY,
- 1955 June p. 72.
 Patel, C. K. N. HIGH-POWER CARBON DIOXIDE LASERS, 1968 Aug. p. 22.
- Patterson, Blake R. MUSICAL DYNAMICS, 1974 Nov. p. 78.
- Patterson, Thomas C., and Edward P. Lanning. EARLY MAN IN SOUTH AMERICA, 1967 Nov. p. 44.
- Patton, Stuart. MILK, 1969 July p. 58.
- Pauling, Linus. CHEMISTRY, 1950 Sept. p. 32.
 Pauling, Linus, Robert B. Corey and Roger
 Hayward. THE STRUCTURE OF PROTEIN
 1054 July p. 51 [31]
- MOLECULES, 1954 July p. 51. [31] Payne-Gaposchkin, Cecilia H. why do Galaxies HAVE A SPIRAL FORM?, 1953 Sept. p. 89.

- Peakall, David B. is sticiner and the serious crios of birds, 1970 Apr. p. 72, [1174]
- Pearson, Keir, this contrade of warking, 1976 Dec. p. 72, [1346]
- Pearson, Oliver P. viii vii. (1800) 1860 HUMMISGRIRDS, 1953 Jan. p. 69; shri ws. 1954 Aug. p. 66.
- Pease, William, as at tomatic stachist tool, 1952 Sept. p. 101.
- Peattie, Donald Culross, whith roat, 1948 June p. 48; Mescark Hickory, 1948 Sept. p. 40; pracet, breshi snd birch, 1948 Nov. p. 20.
- Pechet, Maurice M., and Howard Rasmussen, CALLITOSIS, 1970 Oct. p. 42, [1200]
- Pedley, John Griffiths, and John H. Humphrey. 80MAS CARIHAGI, 1978 Jan. p. 110, [704]
- Peebles, P. James E., and David T. Wilkinson. THE FRIMENAL FIREBALL, 1967 June p. 28.
- Peebles, P. James E., Edward J. Groth, Michael Seldner and Raymond M. Soneira, THE CLUSTERING OF GALAXIES, 1977 Nov. p. 76, [390]
- Peierls, R. E. THE ATOMIC NUCLEUS, 1959 Jan. p. 75.
- Pervoto, José P., and M. Ali Kettani, the CONTROL OF THE WATER CYCLE, 1973 Apr. p. 46, [907]
- Peltzman, Philip, and Peter F. Ostwald, THE CRY OF THE HUMAN INFANT, 1974 Mar. p. 84, [558]
- Pengelley, Eric T., and Sally J. Asmundson. ANNUAL BIOLOGICAL CLOCKS, 1971 Apr. p. 72. [1219]
- Penman, H. L. THE WATER CYCLE, 1970 Sept. p. 98, [1191]
- Penman, Sheldon, THE MUON, 1961 July p. 46. [275]
- Penney, Richard L., and John T. Emlen. THE NAVIGATION OF PENGUINS, 1966 Oct. p. 104.
- Pennington, Keith S. Advances in Holography, 1968 Feb. p. 40.
- Pennycuick, C. J. THE SOARING FLIGHT OF VULTURES, 1973 Dec. p. 102.
- Penrose, L. S. self-reproducing machines, 1959 June p. 105 [74]; dermatoglyphics, 1969 Dec. p. 72. [1164]
- Penrose, Roger. BLACK HOLES, 1972 May p. 38. Pequegnat, Willis E. WHALES, PLANKTON AND MAN, 1958 Jan. p. 84. [853]
- Percy, John R. Pulsating stars, 1975 June p. 66.
- Perkins, Dexter, Jr., and Patricia Daly. A HUNTERS VILLAGE IN NEOLITHIC TURKEY, 1968 Nov. p. 96.
- Perl, Martin L., and William T. Kirk. HEAVY LEPTONS, 1978 Mar. p. 50. [398]
- Perlman, I., and G. T. Seaborg. THE SYNTHETIC ELEMENTS, 1950 Apr. p. 38. [242]
- Perry, Harry. THE GASIFICATION OF COAL, 1974 Mar. p. 19.
- Perutz, M. F. the hemoglobin molecule, 1964 Nov. p. 64. [196]
- Peterson, Allen M., and Von R. Eshleman. RADAR ASTRONOMY, 1960 Aug. p. 50.
- Peterson, Charles M., and Anthony Cerami.
 CYANATE AND SICKLE-CELL DISEASE, 1975 Apr.
- p. 44. [1319] Peterson, Lloyd R. short-term memory, 1966 July p. 90. [499]
- Peterson, Osler L. MEDICAL CARE IN THE U.S., 1963 Aug. p. 19.
- Peterson, W. Wesley. ERROR-CORRECTING CODES, 1962 Feb. p. 96.
- Petrunkevitch, Alexander, THE SPIDER AND THE WASP, 1952 Aug. p. 20.

- Pettersion, Hans, exploring the ocean floor, 1950 Aug. p. 42; cosmic spherules and methoric dust, 1960 Feb. p. 123.
- Pettigrew, John D. The Neurophysiology of ainocular vision, 1972 Aug. p. 84. [1255] Plann, William G. Zone refining, 1967 Dec. p. 62.
- Pfeiffer, E. W., and Arthur H. Westing, the CRATERING OF INDOCHINA, 1972 May p. 20. [1248]
- Pleister, H. G., and L. O. Barthold High-VOLTAGE FOWER TRANSMISSION, 1964 May p. 38.
- Pfeiffer, John E. Enzymes, 1948 Dec. p. 28; the Office of Naval Research, 1949 Feb. p. 11; Woods Hole in 1949, 1949 Sept. p. 13; Symbolic Logic, 1950 Dec. p. 22.
- Phelps, John B., and Ernest C. Pollard. FORT MONMOUTH, 1954 June p. 29.
- Phillips, Anthony, Turning a surface inside out, 1966 May p. 112.
- Phillips, David C. The three-dimensional STRUCTURE OF AN ENZYME MOLECULE, 1966 Nov. p. 78. [1055]
- Phillips, Ralph W. CATTLE, 1958 June p. 51. Phillipson, D. W. THE SPREAD OF THE BANTU LANGUAGE, 1977 Apr. p. 106. [694]
- Piaget, Jean. How Children Form MATHEMATICAL CONCEPTS, 1953 Nov. p. 74 [420]; THE CHILD AND MODERN PHYSICS, 1957 Mar. p. 46.
- Piel, Gerard and T. C. Schneirla, THE ARMY ANT. 1948 June p. 16.
- Pierce, John R. Electronics, 1950 Oct. p. 30; MICROWAVES, 1952 Aug. p. 43; INNOVATION IN TECHNOLOGY, 1958 Sept. p. 116; COMMUNICATION SATELLITES, 1961 Oct. p. 90; THE TRANSMISSION OF COMPUTER DATA, 1966 Sept. p. 144; COMMUNICATION, 1972 Sept. p. 30 [677]; THE FUEL CONSUMPTION OF
- Pierce, William H. REDUNDANCY IN COMPUTERS, 1964 Feb. p. 103. [298]

АUTOMOBILES, 1975 Jan. р. 34.

- Piggott, Stuart. A FORGOTTEN EMPIRE OF ANTIQUITY, 1953 Nov. p. 42; THE BEGINNINGS OF WHEELED TRANSPORT, 1968 July p. 82.
- Pike, John E. prostaglandins, 1971 Nov. p. 84. [1235]
- Pillinger, Colin T., Geoffrey Eglinton and James R. Maxwell. THE CARBON CHEMISTRY OF THE MOON, 1972 Oct. p. 80.
- Pimentel, George C. CHEMICAL LASERS, 1966 Apr. p. 32. [303]
- Pinchot, Gifford B. Marine Farming, 1970 Dec. p. 14. [1205]
- Pincus, Gerald, and Philip Baumeister. OPTICAL INTERFERENCE COATINGS, 1970 Dec. p. 58.
- Pincus, Gregory. FERTILIZATION IN MAMMALS, 1951 Mar. p. 44.
- Pinkerton, Richard C. Information Theory and Melody, 1956 Feb. p. 77.
- Piore, Nora K. METROPOLITAN MEDICAL ECONOMICS, 1965 Jan. p. 19.
- Pippenger, Nicholas. COMPLEXITY THEORY, 1978
 June p. 114. [3013]
 Pirie, N. W. ORTHODOX AND UNORTHODOX
- METHODS OF MEETING WORLD FOOD NEEDS, 1967 Feb. p. 27. [1068]
- Pitts, Ferris N., Jr. THE BIOCHEMISTRY OF ANXIETY, 1969 Feb. p. 69. [521]
- Plass, Gilbert N. CARBON DIOXIDE AND CLIMATE, 1959 July p. 41. [823] Platt, John R. HOW WE SEE STRAIGHT LINES, 1960
- June p. 121.
 Platt, Rutherford. FLOWERS IN THE ARCTIC, 1956
- Feb. p. 88.

Plattner, Stuart. RURAL MARKET NETWORKS, 1975 May p. 66.

Platzman, Robert L. what is ionizing RADIATION?, 1959 Sept. p. 74.

Pohl, Herbert A. NONUNIFORM ELECTRIC FIELDS, 1960 Dec. p. 106.

Poincaré, Henri. MATHEMATICAL CREATION, 1948 Aug. p. 54.

Pollack, Gerald L. SOLID NOBLE GASES, 1966 Oct. p. 64.

Pollack, Henry N., and David S. Chapman. THE FLOW OF HEAT FROM THE EARTH'S INTERIOR, 1977 Aug. p. 60. [927]

Pollack, James B. MARS, 1974 Sept. p. 106. Pollard, Ernest C. THE PHYSICS OF VIRUSES, 1954 Dec. p. 62. [32]

Pollard, Ernest C., and John B. Phelps. FORT MONMOUTH, 1954 June p. 29.

Ponder, Eric. THE RED BLOOD CELL, 1957 Jan. p. 95.

Pooley, Anthony C., and Carl Gans. THE NILE CROCODILE, 1976 Apr. p. 114.

Pope, Martin. ELECTRIC CURRENTS IN ORGANIC CRYSTALS, 1967 Jan. p. 86.

Porcello, Leonard J., Homer Jensen, L. C. Graham and Emmett N. Leith. SIDE-LOOKING AIRBORNE RADAR, 1977 Oct. p. 84. [386]

Porter, Keith R., and Clara Franzini-Armstrong. THE SARCOPLASMIC RETICULUM, 1965 Mar. p. 72. [1007]

Porter, R. R. THE STRUCTURE OF ANTIBODIES, 1967 Oct. p. 81. [1083]

Porter, Stephen C., and George H. Denton.

NEOGLACIATION, 1970 June p. 100.

Poskanzer, Arthur M., and Joseph Cerny. EXOTIC LIGHT NUCLEI, 1978 June p. 60. [3010] Posner, Gerald S. THE PERU CURRENT, 1954 Mar. p. 66.

Post, Richard F. Fusion Power, 1957 Dec. p. 73. [236]

Post, Richard F., and Stephen F. Post. FLYWHEELS, 1973 Dec. p. 17.

Post, Richard F., and T. K. Fowler. PROGRESS TOWARD FUSION POWER, 1966 Dec. p. 21.

Potter, Ralph K. FROG CALLS, 1950 May p. 46. Powell, Raymond P. ECONOMIC GROWTH IN THE USS R., 1968 Dec. p. 17.

Powers, Charles F., and Andrew Robertson. THE AGING GREAT LAKES, 1966 Nov. p. 94. [1056]

Pramer, David. ANTIBIOTICS AGAINST PLANT DISEASES, 1955 June p. 82.

Pratt, Christopher J. CHEMICAL FERTILIZERS, 1965 June p. 62; SULFUR, 1970 May p. 62. Premack Ann Lames and David Premack

Premack, Ann James, and David Premack. TEACHING LANGUAGE TO AN APE, 1972 Oct. p. 92. [549]

Prener, J. S. and D. B. Sullenger. PHOSPHORS, 1954 Oct. p. 62. [237]

Prentice, W. C. H. AFTEREFFECTS IN PERCEPTION, 1962 Jan. p. 44.

Press, Frank. resonant vibrations of the Earth, 1965 Nov. p. 28; Earthquake PREDICTION, 1975 May p. 14. [917]

Preston, Kendall, Jr., and Marylou Ingram. AUTOMATIC ANALYSIS OF BLOOD CELLS, 1970 Nov. p. 72.

Preston, R. D. CELLULOSE, 1957 Sept. p. 156; PLANTS WITHOUT CELLULOSE, 1968 June p. 102. [1110]

Pribram, Karl H. THE NEUROPHYSIOLOGY OF REMEMBERING, 1969 Jan 73. [520] Price, Derek J. de Solla, an ancient green

COMPUTER, 1959 June p. 60.
Price, P. B., R. L. Fleischer and R. M. Walker.
NUCLEAR TRACKS IN SOLIDS, 1969 June p. 30.
Price, William H. THE PHOTOGRAPHIC LENS, 1976
Aug. p. 72.

Pritchard, Roy M. STABILIZED IMAGES ON THE RETINA, 1961 June p. 72. [466]

Proskouriakoff, Tatiana. THE DEATH OF A CIVILIZATION, 1955 May p. 82.

Prufer, Olaf H. THE HOPEWELL CULT, 1964 Dec. p. 90.

Pruitt, William O., Jr. animals in the snow, 1960 Jan. p. 60.

Pryor, William A. Free RADICALS IN BIOLOGICAL SYSTEMS, 1970 Aug. p. 70. [335]

Ptashne, Mark, and Tom Maniatis. A DNA OPERATOR-REPRESSOR SYSTEM, 1976 Jan. p. 64. [1333]

Ptashne, Mark, and Walter Gilbert. GENETIC REPRESSORS, 1970 June p. 36. [1179]

Puck, Theodore T. single human cells in vitro, 1957 Aug. p. 91 [33]; radiation and the human cell, 1960 Apr. p. 142. [71]

Q

Quine, W. V. Paradox, 1962 Apr. p. 84; the foundations of mathematics, 1964 Sept. p. 112.

R

Rabi, I. I. TRIBUTE TO ALBERT EINSTEIN 1879-1955, 1955 June p. 31.

Rabinowicz, Ernest. STICK AND SLIP, 1956 May p. 109; WEAR, 1962 Feb. p. 127; POLISHING, 1968 June p. 91; EXOELECTRONS, 1977 Jan. p. 74. [350]

Rabinowitch, Eugene I. Photosynthesis, 1948 Aug. p. 24; Progress in Photosynthesis, 1953 Nov. p. 80.

Rabinowitch, Eugene I., and Govindjee. THE ROLE OF CHLOROPHYLL IN PHOTOSYNTHESIS, 1965 July p. 74. [1016]

Racker, Efraim. THE MEMBRANE OF THE MITOCHONDRION, 1968 Feb. p. 32. [1101]

Radler, D. H., and H. H. Remmers. TEENAGE ATTITUDES, 1958 June p. 25.

Raff, Arthur D. THE MAGNETISM OF THE OCEAN FLOOR, 1961 Oct. p. 146.

Raff, Martin C. CELL-SURFACE IMMUNOLOGY, 1976 May p. 30. [1338]

Rafferty, Keen A., Jr. HERPES VIRUSES AND CANCER, 1973 Oct. p. 26.

Ragosine, Victor E. MAGNETIC RECORDING, 1969 Nov. p. 70.

Rahn, Hermann, and Suk Ki Hong, the diving women of Korea and Japan, 1967 May p. 34. [1072]

Raimi, Ralph A. THE PECULIAR DISTRIBUTION OF FIRST DIGITS, 1969 Dec. p. 109.

Raisbeck, Gordon. THE SOLAR BATTERY, 1955 Dec. p. 102.

Rajchman, Jan A. INTEGRATED COMPUTER
MEMORIES, 1967 July p. 18.

Rand, W. E., and A. M. Zarem. SMOG, 1952 May p. 15.

Rane, Leo and Dora S. AUREOMYCIN, 1949 Apr. p. 18.

Raper, Kenneth B. THE PROGRESS OF ANTIBIOTICS, 1952 Apr. p. 49.

Rapoport, Anatol. the use and misuse of game theory, 1962 Dec. p. 108; escape from paradox, 1967 July p. 50.

Rapp, Fred, and Joseph L. Melnick, the FOOTPRINTS OF TUMOR VIRUSES, 1966 Mar. p. 34.

Rappaport, Roy A. The flow of energy in an agricultural society, 1971 Sept. p. 116. [666]

Rasmussen, Howard. THE PARATHYROID HORMONE, 1961 Apr. p. 56. [84]

Rasmussen, Howard, and Maurice M. Pechet. CALCITONIN, 1970 Oct. p. 42. [1200]

Rathje, William L., and Jeremy A. Sabloff. THE RISE OF A MAYA MERCHANT CLASS, 1975 Oct. p. 72.

Rathjens, George W. THE DYNAMICS OF THE ARMS RACE, 1969 Apr. p. 15. [642]

Rathjens, George W., and G. B. Kistiakowsky. THE LIMITATION OF STRATEGIC ARMS, 1970 Jan. p. 19. [654]

Ratliff, Floyd. Contour and Contrast, 1972 June p. 90. [543]

Ratliff, Floyd. William H. Miller and H. K. Hartline. HOW CELLS RECEIVE STIMULI, 1961 Sept. p. 222. [99]

Raushenbush, Stephen. POINT FOUR, 1950 Mar. p. 16.

Raven, Peter H., and Paul R. Ehrlich. BUTTERFLIES AND PLANTS, 1967 June p. 104. [1076]

Ravetz, Jerome R. the origins of the copernican revolution, 1966 Oct. p. 88. Read, John. Alchemy and alchemists, 1952 Oct. p. 72; sir william perkin, 1957 Feb. p. 110.

Reba, Imants. APPLICATIONS OF THE COANDA EFFECT, 1966 June p. 84.

Reber, Grote. RADIO ASTRONOMY, 1949 Sept. p. 34.

Rechnitzer, Andreas B., Robert S. Dietz and Russell V. Lewis. THE BATHYSCAPH, 1958 Apr. p. 27.

Redhead, P. A., and H. A. Steinherz. ultrahigh vacuum, 1962 Mar. p. 78. [277]

Rees, Martin J., and Franco Pacini. ROTATION IN HIGH-ENERGY ASTROPHYSICS, 1973 Feb. p. 98. Rees, Martin J., and Joseph Silk. THE ORIGIN OF

GALAXIES, 1970 June p. 26.

Reid, Constance. Perfect Numbers, 1953 Mar. p. 84.

Reid, Robert C., and Elisabeth Drake. THE IMPORTATION OF LIQUEFIED NATURAL GAS, 1977 Apr. p. 22. [358]

Reif, F. superfluidity and "quasi-particles", 1960 Nov. p. 138 [272]; quantized vortex rings in superfluid helium, 1964 Dec. p. 116.

Reiner, Marcus, the flow of MATTER, 1959 Dec. p. 122. [268]

Reines, Frederick, and J. P. F. Sellschop. NEUTRINOS FROM THE ATMOSPHERE AND BEYOND, 1966 Feb. p. 40.

Reisfeld, Ralph A., and Barry D. Kahan.
MARKERS OF BIOLOGICAL INDIVIDUALITY, 1972
June p. 28. [1251]

Reiss, Howard. THE CHEMICAL PROPERTIES OF MATERIALS, 1967 Sept. p. 210.

Rem, Jan, and Bruno Coppi. THE TOKAMAK APPROACH IN FUSION RESEARCH, 1972 July p. 65.

Remmers, H. H., and D. H. Radler, TEENAGE ATTITUDES, 1958 June p. 25.

Renfrew, Colin. CARBON 14 AND THE PREHISTORY OF EUROPE, 1971 Oct. p. 63. [672] Renfrew, Colin, J. E. Dixon and J. R. Cann.

OBSIDIAN AND THE ORIGINS OF TRADE, 1968
Mar. p. 38.

Rensch, Bernhard, the intelligence of elephants, 1957 Feb. p. 44. Reti, Ladislao, leonardo on bearings and gears, 1971 Feb. p. 100.

295

- Revelle, Roger, water, 1963 Sept. p. 92; tin octas, 1969 Sept. p. 54[579], fond sod forctanos, 1974 Sept. p. 160, tin resocrets av all abel for agriculture, 1976 Sept. p. 164
- Revelle, Roger, and Robert L. Fisher, im 1815a m voi 11th Parine, 1955 Nov. p. 36, [814]
- Reynolds, Harold C. rm orosst vt. 1953 June p. 88,
- Reynolds, John H. (in Act or the extransitions the sor areas extra M. 1960 Nov. p. 171, [253]
- Reynolds, Samuel R. M. onstruction estimates, 1950 Mar. p. 52; the estimates accord, 1952 July p. 70.
- Rhoads, Jonathan E, and Stanley J. Dudrick. 103 x ISTRAYESOL STEEDISO, 1972 May p. 72.
- Rhykerd, Charles L., Jules Jamek and Carl H.
 Noller, the exectivol proven vid assistat
 NUTRITION, 1976 Sept. p. 74.
- Ribbands, Ronald, rin nost vart, 1955 Aug. p. 52.
- Rice, Francis Owen, the chemistry of herrer, 1956 June p. 119.
- Rich, Alexander, rolly allosoms, 1963 Dec. p. 44. [171]
- Rich, Alexander, and Sung Hou Kim, the THREE DIMENSIONAL STRUCTURE OF TRANSFER RNA, 1978 Jun. p. 52. [1377]
- Richards, Paul W. THE TROPICAL BAIN FOREST, 1973 Dec. p. 58, [1286]
- Richards, Whitman, THE FORTH ICATION ILLUSIONS OF MIGRAINES, 1971 May p. 88 [536]
- Richardson, Robert S. THE DISCOVERY OF ICARUS, 1965 Apr. p. 106.
- Richter, Frank, and D. P. McKenzie. CONVECTION CURRENTS IN THE EARTH'S MANTLE, 1976 Nov. p. 72, 1921]
- Ridenour, Louis N. a U.S. PHYSICISTS REPLY TO PROFESSOR BLACKETT, 1949 Mar. p. 16; THE HYDROGEN BOMB, 1950 Mar. p. 11; A REVOLUTION IN ELECTRONICS, 1951 Aug. p. 13; THE ROLE OF THE COMPUTER, 1952 Sept. p. 116; COMPUTER MEMORIES, 1955 June p. 92.
- Rieder, Werner, CIRCUIT BREAKERS, 1971 Jan. p. 76.
- Ries, Herman E., Jr. MONOMOLLCULAR FILMS, 1961 Mar. p. 152.
- Riesen, Austin H. ARRESTED VISION, 1950 July p. 16. [408]
- Riker, William H., and Richard G. Niemi. The CHOICE OF VOTING SYSTEMS, 1976 June p. 21. [689]
- Riley, Gordon A. FOOD FROM THE SEA, 1949 Oct. p. 16.
- Rimoin, David L., and Victor A. McKusick. GENERAL TOM THUMB AND OTHER MIDGETS, 1967 July p. 102.
- Ritchie-Calder, Lord. conversion to the METRIC SYSTEM, 1970 July p. 17. [334]
- Roach, Franklin E., and C. T. Elvey. Aurora AND AIRGLOW, 1955 Sept. p. 140.
- Robbins, Phillips W., and Richard Losick. THE RECEPTOR SITE FOR A BACTERIAL VIRUS, 1969 Nov. p. 120. [1161]
- Roberts, Arthur. "How NICE TO BE A PHYSICIST" (songs), 1948 Sept. p. 50.
- Roberts, Frank H. H. A CRISIS IN US ARCHAEOLOGY, 1948 Dec. p. 12; THE EARLY AMERICANS, 1951 Feb. p. 15.
- Roberts, John D. ORGANIC CHEMICAL REACTIONS, 1957 Nov. p. 117. [85]
- Roberts, John M., and Evon Z. Vogt. A STUDY IN VALUES, 1956 July p. 25.
- Roberts, M. deV., and Alex Bernstein. COMPUTER V CHESS-PLAYER, 1958 June p. 96.

- Roberts, Morton S, hydrocol servical vans, 1963 June p. 94.
- Roberts, Walter Orr, court acti appointment stage 1955 Feb. p. 40, stagetted by violence (condo. 1957 Apr. p. 133, [849]
- Robertson, Andrew, and Charles F. Powers, the MONO ORI MELSKES, 1966 Nov. p. 94, [1056] Robertson, H. P. the Cave act, 1956 Sept. p. 73,
- Robertson, J. David vin susuacest of vin tive octit, 1902 Apr. p. 64, [151]
- Robin, Gordon de Q im ici or im antarctic, 1962 Sept. p. 132. [861]
- Robinson, Brian J, hydroxyr radicals page 1965 July p. 26.
- Robinson, Trevor, Arkatoms, 1959 July p. 113, 110521
- Roblin, Richard O., Jr. the interative process, 1951 Apr. p. 60.
- Rochow, Eugene G. rin cin sustay of surcosts, 1948 Oct. p. 50.
- Rock, Irvin, References and Larsing, 1958 Aug. p. 68 [422], the ferences of disord ned figures, 1974 Jan. p. 78, [557]
- Rock, Irvin, and Charles S. Harris, vision and touch, 1967 May p. 96, [507]
- Rock, Irvin, and Lloyd Kaufman, the vicos teet vicos, 1962 July p. 120, [462]
- Rockett, Frank H. the transistor, 1948 Sept. p. 52.
- Rodalil, Kaure, ici islands in the arctic, 1954 Dec. p. 40.
- Rodden, Robert J. AN EARLY NEOLITHIC VILLAGE IN GREECE, 1965 Apr. p. 82.
- Rodebush, Worth H., and Arthur M. Buswell. WALER, 1956 Apr. p. 76.
- Rodwin, Lloyd, CIUDAD GUAYANA A NEW CITY, 1965 Sept. p. 122.
- Roe, Anne, a psychologist examines 64 eminent schntists, 1952 Nov. p. 21.
- Roedder, Edwin. ancient fluids in Crystals, 1962 Oct. p. 38. [854]
- Roeder, Kenneth D. Moths and Ultrasound, 1965 Apr. p. 94. [1009]
- Rogers, Carl R. "CLIENT-CENTERED" PSYCHOTHERAPY, 1952 Nov. p. 66. [448]
- Rogers, Terence A, the metabolism of ruminants, 1958 Feb. p. 34; the physiological effects of acceleration, 1962 Feb. p. 60.
- Roller, Duane and Duane H. D. FRANCIS HAUKSBEE, 1953 Aug. p. 64.
- Romer, Alfred Sherwood, Louis Agassiz, 1949 July p. 48.
- Rona, Peter A. A PLATE TECTONICS AND MINERAL RESOURCES, 1973 July p. 86. [909]
- Rose, Anthony H. BEER, 1959 June p. 90; YEASTS, 1960 Feb. p. 136; NEW PENICILLINS, 1961 Mar. p. 66.
- Rose, David J. ENERGY POLICY IN THE US 1974 Jan. p. 20. [684]
- Rose, David J., and Richard K. Lester. Nuclear power. Nuclear weapons and international stability, 1978 Apr. p. 45. [3004]
- Rose, Peter H., and Andrew B. Wittkower. TANDEM VAN DE GRAAFF ACCELERATORS, 1970 Aug. p. 24.
- Rose, S. Meryl. transformed cells, 1949 Dec. p. 22; feedback in the differentiation of cells, 1958 Dec. p. 36.
- Rosenbaum, E. P. Physics in the uss r., 1956 Aug. p. 29; the teaching of elementary mathematics, 1958 May p. 64. [238]
- Rosenbaum, E. P., and Murray Gell-Mann. ELEMENTARY PARTICLES, 1957 July p. 72. [213] Rosenbaum, E. P., and Victor F. Weisskopf. A MODEL OF THE NUCLEUS, 1955 Dec. p. 84. [261]

- Rosenblatt, Jay S. LEARNING INNEWBORN KILLING, 1972 Dec. p. 18. [552]
- Rosenfeld, Arthur H., Geoffrey F. Chew and Murray Gell-Mann, Strongly interacting particles, 1964 Feb. p. 74, [296]
- Rosenthal, Robert, and Lenore F. Jacobson.
 HACHEREXPLCTATIONS FOR THE
 OPEADY WITHOUT, 1968 Apr. p. 19. [514]
 Rosenthal, Sanford, WOLNDSHOCK, 1958 Dec.
 p. 115.
- Rosenzweig, Mark R. Auditory Localization, 1961 Oct. p. 132, [501]
- Rosenzweig, Mark R., Edward L. Bennett and Marian Cleeves Diamond, BRAIN CHANGESIN RESPONSE TO EXPERIENCE, 1972 Feb. p. 22. 15411
- Ross, David A., and Egon T. Degens, THE RED SEA HOT BRISES, 1970 Apr. p. 32.
- Ross, John. THE RESOURCES OF BINOCULAR PLRCEPTION, 1976 Mar. p. 80. [569]
- Ross, Russell, wound Healing, 1969 June p. 40. Ross, Russell, and Paul Bornstein, Elastic FIBERS IN THE BODY, 1971 June p. 44. [1225]
- Rossi, Bruno, where do cosnic rays come 1 rowp, 1953 Sept. p. 64 [239]; high-energy cosnic rays, 1959 Nov. p. 134.
- Roth. Lloyd J., and Roland W. Manthei.
 RADIOACTIVE TUBERCULOSIS DRLGS, 1956 Nov.
 p. 135.
- Rothman, Milton A. Things that go faster than light, 1960 July p. 142.
- Rothschild, Lord, unorthodox methods of Sperm transfer, 1956 Nov. p. 121.
- Rothschild, Minam. FLEAS, 1965 Dec. p. 44.
- Rothschild, Minam, Y. Schlein, K. Parker, C. Neville and S. Sternberg, The FLYING LEAP OF THE SEA 1973 Nov. p. 97 117841
- THE FLEA, 1973 Nov. p. 92. [1284]
 Rounds, Donald E., and Michael W. Berns. CELL
- SURGERY BY LASER, 1970 Feb. p. 98. [1170] Rouse, Irving, and José M. Cruxent. EARLY MAN IN THE WEST INDIES, 1969 Nov. p. 42. [652]
- Rowe, Ednor M., and John H. Weaver. THE USES OF SYNCHROTRON RADIATION, 1977 June p. 32. [365]
- Rowland, Vernon. Conditioning and Brain waves, 1959 Aug p. 89.
- Rubbia, Carlo, David B. Cline and Alfred K. Mann. The detection of Neutral Weak CURRENTS, 1974 Dec. p. 108; The SEARCH FOR NEW FAMILIES OF ELEMENTARY PARTICLES, 1976 Jan. p. 44.
- Rubin, Harry, a defective cancer virus, 1964
 June p. 46. [185]
- Rubin, Leonard C., Stephen Cole and Jonathan R. Cole, PEER REVIEW AND THE SUPPORT OF SCIENCE, 1977 Oct. p. 34. [698]
- Rubin, Martin, John E. Amoore and James W. Johnston, Jr. THE STEREOCHEMICAL THEORY OF ODOR, 1964 Feb. p. 42.
- Rubin, Morton J. THE ANTARCTIC AND THE WEATHER, 1962 Sept. p. 84. [859]
- Rubin, Vera C. The dynamics of the Andromeda nebula, 1973 June p. 30.
- Rubsamen, David S. MEDICAL MALPRACTICE, 1976 Aug. p. 18.
- Ruddle, Frank H., and Raju S. Kucherlapati. HYBRID CELLS AND HUMAN GENES, 1974 July p. 36. [1300]
- Ruddle, Frank H., and Robert S. Ledley. CHROMOSOME ANALYSIS BY COMPUTER, 1966 Apr. p. 40. [1040]
- Ruderman, Malvin A. solid stars, 1971 Feb. p. 24.
- Rudwick, Martin J. S., and W. Brian Harland. THE GREAT INFRA-CAMBRIAN ICE AGE, 1964 Aug. p. 28.

- Runcoth, S. K. the earth's magnetism, 1955 Sept. p. 152; CORALS AS PALEONTOLOGICAL CLOCKS, 1966 Oct. p. 26. [871]
- Runnels, L. K. ICE, 1966 Dec. p. 118. [307] Rush, J. H. TREE RINGS AND SUNSPOTS, 1952 Jan. p. 54; THE SPEED OF LIGHT, 1955 Aug. p. 62.
- Rushton, W. A. H. VISUAL PIGMENTS IN MAN, 1962 Nov. p. 120 [139]; VISUAL PIGMENTS AND COLOR BLINDNESS, 1975 Mar. p. 64. [1317]
- Russell, Paul F. THE ERADICATION OF MALARIA, 1952 June p. 22.
- Rustad, Ronald C. PINOCYTOSIS, 1961 Apr. p. 120.
- Rutter, William J., and Norman K. Wessells. PHASES IN CELL DIFFERENTIATION, 1969 Mar. p. 36. [1136]
- Ruud, Johan T. THE BLUE WHALE, 1956 Dec. p. 46; THE ICE FISH, 1965 Nov. p. 108.
- Ryan, Francis J. EVOLUTION OBSERVED, 1953 Oct. p. 78.
- Ryder, Henry W., Harry Jay Carr and Paul Herget, future performance in footracing, 1976 June p. 109.
- Ryder, Norman B. THE FAMILY IN DEVELOPED COUNTRIES, 1974 Sept. p. 122.
- Ryle, Martin. RADIO GALAXIES, 1956 Sept. p. 204. Ryther, John H. THE SARGASSO SEA, 1956 Jan. p. 98.

- Sabloff, Jeremy A., and William L. Rathje. THE RISE OF A MAYA MERCHANT CLASS, 1975 Oct.
- Sachar, Edward J. BEHAVIORAL SCIENCE AND CRIMINAL LAW, 1963 Nov. p. 39. [480]
- Safrany, David R. NITROGEN FIXATION, 1974 Oct. p. 64.
- Sagan, Carl. THE SOLAR SYSTEM, 1975 Sept. p. 22. [347]
- Sagan, Carl, and Frank Drake. THE SEARCH FOR EXTRATERRESTRIAL INTELLIGENCE, 1975 May p. 80, [347]
- Sager, Ruth. GENES OUTSIDE THE CHROMOSOMES, 1965 Jan. p. 70. [1002]
- Sahlins, Marshall D. THE ORIGIN OF SOCIETY.
- 1960 Sept. p. 76, [602] Salaman, Redcliffe N. THE SOCIAL INFLUENCE OF
- THE POTATO, 1952 Dec. p. 50. Salisbury, Frank B. PLANT GROWTH SUBSTANCES.
- 1957 Apr. p. 125 [110]; THE FLOWERING PROCESS, 1958 Apr. p. 108. [112]
- Salisbury, Peter F. ARTIFICIAL INTERNAL ORGANS, 1954 Aug. p. 24.
- Salk, Jonas E. VACCINES FOR POLIOMYELITIS, 1955 Apr. p. 42.
- Salk, Lec. THE ROLE OF THE HEARTBEAT IN THE RELATIONS BETWEEN MOTHER AND INFANT. 1973 May p. 24.
- Salmon, Wesley C. CONFIRMATION, 1973 May p. 75.
- Samelson, Harold, and Alexander Lempicki. LIQUID LASERS, 1967 June p. 80.
- Samios, Nicholas P., and William B. Fowler. THE OMEGA-MINUS EXPERIMENT, 1964 Oct. p. 36.
- Sampson, William B., Paul P. Craig and Myron Strongin, ADVANCES IN SUPERCONDUCTING MAGNETS, 1967 Mar. p. 114.
- Sandage, Allan R. THE RED SHIFT, 1956 Sept. p. 170 [240]; EXPLODING GALANILS, 1964 NOV p. 38.
- Sanders, J. V., P. J. Darragh and A. J. Gaskin. OPALS, 1976 Apr. p. 84.

- Sanders, R. H., and G. T. Wrixon. THE CENTER OF THE GALAXY, 1974 Apr. p. 66.
- Sandfort, John F. THE HEAT PUMP, 1951 May p. 54.
- Sandiford, David J. and Bernard Bertman. "SECOND SOUND" IN SOLID HELIUM, 1970 May p. 92.
- Satir, Birgit. THE FINAL STEPS IN SECRETION, 1975 Oct. p. 28. [1328]
- Satir, Peter. CILIA, 1961 Feb. p. 108 [79]; HOW CILIA MOVE, 1974 Oct. p. 44. [1304]
- Sauer, E. G. F. CELESTIAL NAVIGATION BY BIRDS, 1958 Aug. p. 42. [133]
- Saunders, D. S. THE BIOLOGICAL CLOCK OF INSECTS, 1976 Feb. p. 114. [1335]
- Saunders, Frederick A. PHYSICS AND MUSIC, 1948 July p. 32.
- Savory, Theodore H. SPIDER WEBS, 1960 Apr. p. 114; DADDY LONGLEGS, 1962 Oct. p. 119 [137]; FALSE SCORPIONS, 1966 Mar. p. 95 [1039]; HIDDEN LIVES, 1968 July p. 108 [1112]; THE MULE, 1970 Dec. p. 102. [1208]
- Saward, Ernest W. THE ORGANIZATION OF MEDICAL CARE, 1973 Sept. p. 169.
- Sawyer, W. W. ALGEBRA, 1964 Sept. p. 70. Sayre, A. N. GROUND WATER, 1950 Nov. p. 14.
- [818] Scalapino, Douglas J., Donald N. Langenberg
- and Barry N. Taylor, THE JOSEPHSON EFFECTS, 1966 May p. 30.
- Schaaf, Samuel A., Lawrence Talbot and Lee Edson. ultrahigh-altitude aerodynamics, 1958 Jan. p. 36.
- Schaedel, Richard P. THE LOST CITIES OF PERU, 1951 Aug. p. 18.
- Scharrer, Berta. THE WOODROACH, 1951 Dec. p. 58.
- Schawlow, Arthur L. optical masers, 1961 June p. 52 [274]; ADVANCES IN OPTICAL MASERS, 1963 July p. 34 [294]; LASER LIGHT, 1968 Sept. p. 120.
- Scheerer, Martin, PROBLEM-SOLVING, 1963 Apr. p. 118. [476]
- Scheinfeld, Amram. THE MORTALITY OF MEN AND WOMEN, 1958 Feb. p. 22.
- Schelleng, John C. THE PHYSICS OF THE BOWED STRING, 1974 Jan. p. 87.
- Scher, Allen M. THE ELECTROCARDIOGRAM, 1961 Nov. p. 132.
- Schetky, L. McD., and Frank B. Cuff, Jr. DISLOCATIONS IN METALS, 1955 July p. 80. [204] Schick, Bela. ALLERGY A DEFINITION, 1948 July
- Schild, Romuald. THE FINAL PALEOLITHIC SETTLEMENTS OF THE EUROPEAN PLAIN, 1976 Feb. p. 88
- Schlein, Y., Mırıam Rothschild, K. Parker, C. Neville and S. Sternberg, THE FLYING LEAP OF THE FLEA, 1973 Nov. p. 92. [1284]
- Schmandt-Besserat, Denise, the EARLIEST PERCURSOR OF WRITING, 1978 June p. 50. [708] Schmidt, Maarten, and Francis Bello, THE
- EVOLUTION OF QUASARS, 1971 May p. 54. Schmidt-Nielsen, Knut, salt Glands, 1959 Jan. p. 109; THE PHYSIOLOGY OF THE CAMEL, 1959 Dec. p. 140 [1096]; HOW BIRDS BREATHE, 1971
- Dec. p. 72 [1238] Schmidt-Nielsen, Knut and Bodil, THE DESERT RAT, 1953 July p 73 [1050]
- Schmitt, Francis O GIANT MOLECULES IN CELLS
- AND TISSUES, 1957 Sept. p. 204. [35] Schneider, Dietrich THE SEX-ATTRACTANT RECEPTOR OF MOTHS, 1974 July p. 28. [1299]

THE N RAY SKY, 1972 July p. 26.

Schneirla, T. C., and Gerard Piel, THE ARMY ANT, 1948 June p. 16 Schnopper, Herbert W., and John P. Delvaille.

- Schocken, Victor, PLANT HORMONES, 1949 May p. 40.
- Schoder, Raymond V., S. J. ANCIENT CUMAE, 1963 Dec. p. 108.
- Scholander, P. F. "THE WONDERFUL NET." 1957 Apr. p. 96; the master switch of life, 1963 Dec. p. 92.
- Schrader, William T., and Bert W. O'Malley. THE RECEPTORS OF STEROID HORMONES, 1976 Feb. p. 32. [1334]
- Schramm, David N. THE AGE OF THE ELEMENTS, 1974 Jan. p. 69.
- Schramm, David N., J. Richard Gott III, James E. Gunn and Beatrice M. Tinsley. WILL THE UNIVERSE EXPAND FOREVER?, 1976 Mar. p. 62.
- Schrodinger, Erwin. what is matter?, 1953 Sept. p. 52. [241]
- Schubert, Jack. RADIOACTIVE POISONS, 1955 Aug. p. 34; BERYLLIUM AND BERYLLIOSIS, 1958 Aug. p. 27; CHELATION IN MEDICINE, 1966 May p. 40.
- Schubert, Walter J., and F. F. Nord. LIGNIN, 1958 Oct. p. 104.
- Schuman, Howard, and Philip E. Converse. "SILENT MAJORITIES" AND THE VIETNAM WAR, 1970 June p. 17. [656]
- Schumar, James F. REACTOR FUEL ELEMENTS, 1959 Feb. p. 37.
- Schurmeier, H. M., R. L. Heacock and A. E. Wolfe, the ranger missions to the moon, 1966 Jan. p. 52.
- Schurr, Sam H. THE ECONOMICS OF ATOMIC POWER, , 1951 Jan. p. 32; ENERGY, 1963 Sept.
- p. 110. Schwartz, Douglas W. PREHISTORIC MAN IN THE GRAND CANYON, 1958 Feb. p. 97; PREHISTORIC
- MAN IN MAMMOTH CAVE, 1960 July p. 130. Schwartz, Hans J., Irvine H. Page and F. Merlin Bumpus, angiotensin, 1959 Mar. p. 54.
- Schwartzlose, Richard A., and John D. Isaacs. ACTIVE ANIMALS OF THE DEEP-SEA FLOOR, 1975 Oct. p. 84.
- Schwarz, John H. DUAL-RESONANCE MODELS OF elementary particles, 1975 Feb. p. 61.
- Schwarzschild, Martin and Barbara, BALLOON ASTRONOMY, 1959 May p. 52.
- Schwitters, Roy F. FUNDAMENTAL PARTICLES WITH CHARM, 1977 Oct. p. 56. [388] Sciama, Dennis. INERTIA, 1957 Feb. p. 99.
- Sclater, J. G., and D. P. McKenzie. THE EVOLUTION OF THE INDIAN OCEAN, 1973 May p. 62. [908]
- Scoret, R. S. LEE WAVES IN THE ATMOSPHERE, 1961 Mar. p. 124.
- Scott, Bruce I. H. ELECTRICITY IN PLANTS, 1962 Oct. p. 107. [136]
- Scott, Douglas, William W. Seifert and Vernon C. Wesicoll the particles of wear, 1974 May p. 88.
- Scott, Elizabeth L., and Jerzy Neyman, THE DISTRIBUTION OF GALAXIES, 1956 Sept. p. 187.
- Scott, Ronald F. THE FEEL OF THE MOON, 1967 Nov. p. 34.
- Scovil, H. E. D., and Andrew H. Bobeck. MAGNETIC BUBBLES, 1971 June p. 78.
- Scoville, Herbert, Jr. THE LIMITATION OF OFFENSIVE WEAPONS, 1971 Jan 15. MISSILE SUBMARINES AND NATIONAL SECURITY, 1972 June p. 15 [344]; THE SALT NEGOTIATIONS, 1977 Aug. p. 24. [696]
- Scrimshaw, Nevin S. 1000, 1963 Sept. p. 72. [1153]
- Scrimshaw, Nevin S., and Vernon R. Young. THE PHYSIOLOGY OF STARVATION, 1971 Oct. p. 14 [1232]: THE REQUIREMENTS OF HUMAN NUTRITION, 1976 Sept. p. 50.

- Scaborg, Glenn L., and A. R. Fritsch, rin Systim receivals by m. 1963 Apr. p. 65, [293]
- Scaborg, Glenn T., and Albert Ghiorso, 110 SEWEST SYSTIL TICTET SES 1956 Dec. p. 66, [243]
- Scaborg, Glenn T., and J. Perlman, 110 555-110 100111 MESTS, 1950 Apr., p. 38 [242]
- Scaborg, Glenn T., and Justin L. Bloom, 110 System receives its 18, 1969 Apr. p. 56; 1881 BRITOTH REACTORS, 1970 Nov. p. 13 [339]
- Segal, Sheldon J. the envisionous of he says, Reproduction, 1974 Sept. p. 52.
- Segrè, Finilio, and Clyde É. Wiegand, rin ASTIRROTOS, 1956 June p. 37, [244]
- Scielstad, George A., and Glenn L. Berge, rin MAOSI BC FILLD OF THE OAT AXY, 1965 June p. 46.
- Seifert, William W., Douglas Scott and Vernon C. Westcott, the Particles of West, 1974 May p. 88.
- Schacher, Adolf. rossit mirroros, 1962 Aug. p. 72, [872]
- Seitz, Frederick, and Eugene P. Wigner, 1111 ULLCINOLEXDIXTION ON SOLIDS, 1956 Aug. p. 76. [245]
- Schuler, Robert, and Eugene Levinson, THE PERCEPTION OF MOVING PARGETS, 1977 Jun. p. 60, [575]
- Seldner, Michael, Edward J. Groth, P. James E. Peebles and Raymond M. Soneira. 1115 CLUSTI RING OF GALAXIES, 1977 Nov. p. 76. [390]
- Selfridge, Oliver G., and Ultre Neisser, parti RN RECOGNITION BY MACHINE, 1960 Aug. p. 60.
- Selig, Henry, John G. Malm and Howard H. Claassen, THE CHEMISTRY OF THE NOBLE GASES, 1964 May p. 66.
- Seliger, Howard H., and William D. McElroy. BIOLOGICAL LUMINESCENCE, 1962 Dec. p. 76. [141]
- Sellschop, J. P. F., and Frederick Reines. NEUTRINGS FROM THE ATMOSPHERE AND BEYOND, 1966 Feb. p. 40.
- Shankland, R. S. THE MICHELSON-MORLEY EXPERIMENT, 1964 Nov. p. 107.
- Shannon, Claude E. A CHESS-PLAYING MACHINE, 1950 Feb. p. 48.
- Shapiro, Gilbert. POLARIZED ACCELERATOR TARGETS, 1966 July p. 68.
- Shapiro, Irwin I. RADAR OBSLRVATIONS OF THE PLANETS, 1968 July p. 28.
- Shapiro, S. L., and R. R. Alfano. Ultrafast PHENOMENA IN LIQUIDS AND SOLIDS, 1973 June
- Shapiro, Shepard. THE CONTROL OF BLOOD CLOTS, 1951 Mar. p. 18.
- Shapley, Harlow, ASTRONOMY, 1950 Sept. p. 24. Sharlin, Harold I. FROM FARADAY TO THE DYNAMO, 1961 May p. 107.
- Sharon, Nathan. THE BACTERIAL CELL WALL, 1969
 May p. 92; GLYCOPROTEINS, 1974 May p. 78
 [1295]; LECTINS, 1977 June p. 108. [1360]
- [1295]; LECTINS, 1977 June p. 100. [1300] Shaw, Evelyn. THE SCHOOLING OF FISHES, 1962 June p. 128. [124]
- Shaw, John, and Gordon S. Kino. Acoustic surface waves, 1972 Oct. p. 50.
- Sheatsley, Paul B., and Andrew M. Greeley. ATTITUDES TOWARD RACIAL INTEGRATION, 1971 Dec. p. 13. [673]
- Sheatsley, Paul B., and Herbert H. Hyman. ATTITUDES TOWARD DESEGREGATION, 1956 Dec. p. 35; ATTITUDES TOWARD DESEGREGATION, 1964 July p. 16. [623]
- Sheatsley, Paul B., D. Garth Taylor and Andrew M. Greeley. ATTITUDES TOWARD RACIAL INTEGRATION, 1978 June p. 42. [707]

- Shelton, Stephen M. zine osat vi, 1951 June p. 18. [259]
- Shepard, Francis P. st interior cases over, 1949. Apr. p. 40.
- Shepherd, Gordon M. MICROX INCLUSIVE THE STREET ASSESSED AND SECTION 1975 Feb. p. 92, [1350]
- Sherif, Muzafer, extraining 1849 GROUP CONTLICT, 1956 Nov. p. 54, [454]
- Sherrington, Sir Charles S, vin RRINGTONOS THE 191, 1952 May p. 30.
- Shiers, George, the first electron rube, 1969 Mar. p. 104; the procedus coll, 1971 May p. 50; feadings dibrash and the Cathode Ray rube, 1974 Mar. p. 92.
- Shiffrin, Richard M., and Richard C. Atkinson. 11th Costrible of shoat three mesors, 1971 Aug. p. 82, [538]
- Shinbrot, Marvin, fixed-popular theorems, 1966 Jan. p. 105,
- Shock, Nathan W. THE PHYSIOLOGY OF AGING, 1962 Jan. p. 160.
- Shoemaker, Eugene M, the Geology of the MOON, 1964 Dec. p. 38.
- Shop, Kobe, Drip irrigation, 1977 Nov. p. 62. [1371]
- Shuffager, P. S. TSPINALT CATS WALK, 1950 Nov. p. 20.
- Sidel, Victor W., and Ruth, the Delivery of Medical Carl in Chisa, 1974 Apr. p. 19.
- Sidenbladh, Goran, STOCKHOLM APLANNED CITY, 1965 Sept. p. 106.
- Siegel, Ronald K. HALLUCINATIONS, 1977 Oct. p. 132. [579]
- Sickevitz, Philip. rowerhouse of the cell, 1957 July p. 131, [36]
- Siever, Raymond, the Earth, 1975 Sept. p. 82. THE STEADY STATE OF THE EARTH'S CRUST. ATMOSPHERE AND OCEANS, 1974 June p. 72. [914]
- Sigurbjórnsson, Björn, inducted mutations in Plants, 1971 Jan. p. 86. [1210]
- Sillvast, William T. METAL-VAPOR LASERS, 1973 Feb. p. 88.
- Silk, Joseph, and Martin J. Rees, THE ORIGIN OF GALANIES, 1970 June p. 26.
- Silva, Ruth C. REAPPORTIONMENT AND REDISTRICTING, 1965 Nov. p. 20.
- Silverman, William A. The Lesson of RETROLENTAL FIBROPLASIA, 1977 June p. 100. 113611
- Silvers, Willys K., and Rupert E. Billingham. SKIN TRANSPLANTS AND THE HAMSTER, 1963
- Jan. p. 118. [148] Simmons, Gene, Wilmot Hess, Robert Kovach and Paul W. Gast. THE EXPLORATION OF THE MOON, 1969 Oct. p. 54. [889]
- Simons, Elwyn L. The EARLY RELATIVES OF MAN, 1964 July p. 50 [622]; The EARLIEST APES, 1967 Dec. p. 28 [636]; RAMAPITHECUS, 1977 May p. 28, [695]
- Simons, Elwyn L., and Peter C. Ettel. GIGANTOPITHECUS, 1970 Jan 76.
- Simons, J. H. Fluorocarbons, 1949 Nov. p. 44. Simpson, David. the dimensions of world poverty, 1968 Nov. p. 27.
- Simpson, R. H. HURRICANES, 1954 June p. 32. Simpson, R. H., and Joanne Starr Malkus. EXPERIMENTS IN HURRICANE MODIFICATION, 1964 Dec. p. 27.
- Singer, Marcus. THE REGENERATION OF BODY PARTS, 1958 Oct. p. 79.
- Singer, S. Fred. the origin of meteorites, 1954 Nov. p. 36; human energy production as a process in the biosphere, 1970 Sept. p. 174. [1197]
- Singer, S. J. THE SPECIFICITY OF ANTIBODIES, 1957 Oct. p. 99.

- Singh, Shoo Dan, Crean MONKEYS, 1969 July p. 108, [523]
- Sinsheimer, Robert L. Single Stranded Dya, 1962 July p. 109, [123]
- Sjoberg, Gideon, the oxigin and evolution of cities, 1965 Sept. p. 54.
- Skinner, B. F. How to teach assistats, 1951 Dec. p. 26 [423]; teaching machines, 1961 Nov. p. 90. [461]
- Sladen, William J. L. PENGUINS, 1957 Dec. p. 44. Slaughter, Frank G. HEART SURGERY, 1950 Jan. p. 14.
- Slavson, S. R. GROUP PSYCHOTHERAPY, 1950 Dec. p. 42 [449]
- Slayter, Games, two-phase materials, 1962 Jan. p. 124.
- Sloan, Richard K. THE SCIENTIFIC EXPERIMENTS OF MARINER IV, 1966 May p. 62.
- Slotnick, D. L. THE PASTEST COMPUTER, 1971 Feb. p. 76.
- Smith, Burke M. THE POLYGRAPH, 1967 Jan. p. 25. [503]
- Smith, Clement A. THE FIRST BREATH, 1963 Oct. p. 27.
- Smith, Cyril Stanley, the shape of things, 1954 Jan. p. 58; MATERIALS, 1967 Sept. p. 68.
- Smith, David S. THE FLIGHT MUSCLES OF INSECTS, 1965 June p. 76. [1014]
- Smith, F. Dow, How IMAGES ARE FORMED, 1968 Sept. p. 96.
- Smith, Homer W. THE KIDNEY, 1953 Jan. p. 40. [37]
- Smith, Ian Maclean, DEATH FROM STAPHYLOCOCCI, 1968 Feb. p. 84.
- Smith, J. V., and D. W. Breck, MOLECULAR SIEVES, 1959 Jan. p. 85.
- Smith, Lloyd. THE BEVATRON, 1951 Feb. p. 20. Smith, Neal Griffith. VISUAL ISOLATION IN GULLS, 1967 Oct. p. 94. [1084]
- Smith, Newbern. COLOR TELEVISION, 1950 Dec. p. 13.
- Smith, Norman Roman Hydraulic TECHNOLOGY, 1978 May p. 154. [3009]
- Smith, Philip E. L. THE SOLUTREAN CULTURE, 1964 Aug. p. 86; STONE-AGE MAN ON THENILE, 1976 Aug. p. 30.
- Smith, Ray F., and William W. Allen. INSECT CONTROL AND THE BALANCE OF NATURE, 1954 June p. 38.
- Smylie, D. E., and L. Mansinha. THE ROTATION OF THE EARTH, 1971 Dec. p. 80. [897]
- Smythe, Dallas W. AN ANALYSIS OF TELEVISION PROGRAMS, 1951 June p. 15.
- Snider, Ray S. THE CEREBELLUM, 1958 Aug. p. 84. [38]
- Snowden, Donald P. Superconductors FOR POWDER TRANSMISSION, 1972 Apr. p. 84.
- Snyder, Asa E. Desalting water by Freezing, 1962 Dec. p. 41. Snyder, Solomon H. Opiate receptors and
- INTERNAL OPIATES, 1977 Mar. p. 44. [1354] Sobel, Alan. ELECTRONIC NUMBERS, 1973 June p. 64.
- Sobell, Henry M. How actinomycin binds to DNA, 1974 Aug. p. 82. [1303]
- Soberman, Robert K. NOCTILUCENT CLOUDS, 1963 June p. 50.
- Sognnaes, Reidar F. THE SKIN OF YOUR TEETH, 1953 June p. 38; TOOTH DECAY, 1957 Dec. p. 109.
- Sokal, Robert R. NUMERICAL TAXONOMY, 1966 Dec. p. 106. [1059]
- Solecki, Raiph S. HOW MAN CAME TO NORTH AMERICA, 1951 Jan. p. 11; SHANIDAR CAVE, 1957 Nov. p. 58.

- Solheim, Wilhelm G., II. an earlier agricultural revolution, 1972 Apr. p. 34. [675]
- Solomon, Arthur K. Pores in the cell Membrane, 1960 Dec. p. 146 [76]; Pumps in The Living cell, 1962 Aug. p. 100; The State of Water in Red cells, 1971 Feb. p. 88. [1213] Soneira, Raymond M., Edward J. Groth, P.
 - Others, Raymonia Nr., Edward S. Goding. James E. Peebles and Michael Seldner. THE CLUSTERING OF GALAXIES, 1977 Nov. p. 76. [390]
- Sonneborn, T. M. partner of the genes, 1950 Nov. p. 30. [39]
- Sonstegard, David A., Larry S. Matthews and Herbert Kaufer. THE SURGICAL REPLACEMENT OF THE HUMAN KNEE JOINT, 1978 Jan. p. 44. [1378]
- Sorensen, Raymond A., and Michel Baranger. THE SIZE AND SHAPE OF ATOMIC NUCLEI, 1969 Aug. p. 58.
- Sorokin, Peter. ORGANIC LASERS, 1969 Feb. p. 30. Sotter, J. George, and Gary A. Flandro.
- RESONANT COMBUSTION IN ROCKETS, 1968 Dec. p. 94.

 Southern, H. N. NOCTURNAL ANIMALS, 1955 Oct.
- p. 88; A STUDY IN THE EVOLUTION OF BIRDS,
 1957 May p. 124.
- Spain, David M. ATHEROSCLEROSIS, 1966 Aug. p. 48.
- Sparks, Morgan. THE JUNCTION TRANSISTOR, 1952 July p. 28.
- Sparks, Morgan, and William C. Hittinger. MICROELECTRONICS, 1965 Nov. p. 56.
- Spector, Deborah H., and David Baltimore. THE MOLECULAR BIOLOGY OF POLIOVIRUS, 1975 May p. 24.
- Spedding, Frank H. THE RARE EARTHS, 1951 Nov. p. 26.
- Speirs, Robert S. How cells attack antigens, 1964 Feb. p. 58.
- Spencer, A. E., and H. S. Feder. TELEPHONE switching, 1962 July p. 132.
- Sperry, R. W. The EYE AND THE BRAIN, 1956 May p. 48 [1090]; THE GROWTH OF NERVE CIRCUITS, 1959 Nov. p. 68 [72]; THE GREAT CEREBRAL COMMISSURE, 1964 Jan. p. 42. [174]
- Spiegelman, S. HYBRID NUCLEIC ACIDS, 1964 May p. 48.
- Spitzer, Lyman, Jr. THE STELLARATOR, 1958 Oct. p. 28. [246]
- Splinter, William E. CENTER-PIVOT IRRIGATION, 1976 June p. 90.
- Spoorl, Edward, THE LETHAL EFFECTS OF RADIATION, 1951 Dec. p. 22.
- Sprangler, Eugene R., James B. McGuire and Lem Wong. THE SIZE OF THE SOLAR SYSTEM, 1961 Apr. p. 64.
- Sproull, Robert L. THE CONDUCTION OF HEAT IN SOLIDS, 1962 Dec. p. 92.
- Spurgeon, David, and Joseph H. Hulse. TRITICALE, 1974 Aug. p. 72.
- Squires, Arthur M. CLEAN POWER FROM DIRTY FUELS, 1972 Oct. p. 26.
- Stinivas, M. N., and André Béteille. THE "UNTOUCHABLES" OF INDIA, 1965 Dec. p. 13.
- Stachelin, L. Andrew, and Barbara E. Hull JUNCTIONS BETWIEN LIVING CELLS, 1978 May p. 140. [1388]
- Stamp, W. R. UNDERWATER TELLVISION, 1953
 June p. 32.
- Stapleton, George E., and Alexander Hollaender, IONIZING RADIATION AND THE LIVING CELL, 1959 Sept. p. 94.
- Stark, Lawrence, and David Noton, Eye MOVEMENTS AND VISUAL PERCEPTION, 1971 June p. 34, [537]

;

- Starr, Chauncey, ENERGY AND POWER, 1971 Sept. p. 36. [661]
- Starr, Victor P. THE GENERAL CIRCULATION OF THE ATMOSPHERE, 1956 Dec. p. 40.
- Starr, Victor P., and Norman E. Gaut. NEGATIVE VISCOSITY, 1970 July p. 72.
- Starr, Victor P., and Peter A. Gilman. THE CIRCULATION OF THE SUN'S ATMOSPHERE, 1968 Jan. p. 100.
- Stebbins, G. Ledyard, Jr. CATACLYSMIC EVOLUTION, 1951 Apr. p. 54.
- Stebbins, Joel. MEASURING STARLIGHT BY PHOTOCELL, 1952 Mar. p. 56.
- Steele, Francis R. "IF A SLAVE GIRL FLED...", 1948
 June p. 44.
- Steen, Lynn Arthur, NEW MODELS OF THE REAL-NUMBER LINE, 1971 Aug. p. 92.
- Stein, Gary S., Janet Swinehart Stein and Lewis J. Kleinsmith. CHROMOSOMAL PROTEINS AND GENE REGULATION, 1975 Feb. p. 46. [1315]
- Stein, Sherman K. THE MATHEMATICIAN AS AN EXPLORER, 1961 May p. 148.
- Stein, William H., and Stanford Moore. CHROMATOGRAPHY, 1951 Mar. p. 35 [81]; THE CHEMICAL STRUCTURE OF PROTEINS, 1961 Feb. p. 81.
- Steinbach, H. B. ANIMAL ELECTRICITY, 1950 Feb. p. 40; THE SQUID, 1951 Apr. p. 64.
- Steinhaus, Edward A. LIVING INSECTICIDES, 1956 Aug. p. 96.
- Steinherz, H. A., and P. A. Redhead. ULTRA-HIGH VACUUM, 1962 Mar. p. 78. [277] Steinman, David B. BRIDGES, 1954 Nov. p. 60.
- Stent, Gunther S. The multiplication of BACTERIAL VIRUSES, 1953 May p. 36 [40]; CELLULAR COMMUNICATION, 1972 Sept. p. 42 [1257]; PREMATURITY AND UNIQUENESS IN SCIENTIFIC DISCOVERY, 1972 Dec. p. 84. [1261]
- Stephenson, F. Richard, and David H. Clark. HISTORICAL SUPERNOVAS, 1976 June p. 100.
- Stern, Curt. Man's genetic future, 1952 Feb. p. 68; the biology of the negro, 1954 Oct. p. 80.
- Stern, Edward. A. THE ANALYSIS OF MATERIALS
 BY X-RAY ABSORPTION, 1976 Apr. p. 96.
- Stern, Thaddeus. Long-range forces, 1948 Oct. p. 14.
- P. 14. Sternberg, S., Miriam Rothschild, Y. Schlein, K. Parker and C. Neville. THE FLYING LEAP OF THE FLEA, 1973 Nov. p. 92. [1284]
- Stetson, Henry C. THE CONTINENTAL SHELF, 1955
- Mar. p. 82. [808] Stetten, DeWitt, Jr. GOUT AND METABOLISM, 1958 June p. 73.
- Stettner, Laurence Jay, and Kenneth A.
 Matyniak. THE BRAIN OF BIRDS, 1968 June
 p. 64 15151
- p. 64. [515]
 Steward, F. C. THE CONTROL OF GROWTH IN
- PLANT CELLS, 1963 Oct. p. 104. Steward, Julian H. Cultural evolution, 1956 May p. 69.
- Stewart, Albert B. THE DISCOVERY OF STELLAR ABERRATION, 1964 Mar. p. 100.
- Stewart, Ian. GAUSS, 1977 July p. 122. [371] Stewart, John Q. CONCERNING "SOCIAL PHYSICS",
- 1948 May p. 20. Stewart, Mark A. Hyperactive Children, 1970 Apr. p. 94.
- Stewart, R. W. THE ATMOSPHERE AND THE OCEAN, 1969 Sept. p. 76. [881]
- Stewart, Sarah E. THE POLYOMA VIRUS, 1960 Nov. p. 63. [77]
- Stoddard, George D. Youth, 1951 Sept. p. 101. Stoeckenius, Walther. THE PURPLE MEMBRANE OF SALT-LOVING BACTI RIA, 1976 June p. 38. [1340] Stokes, Allen W., and C. Robert Watts. THE

SOCIAL ORDER OF TURKEYS, 1971 June p. 112.

- Stolper, Wolfgang F. THE DEVELOPMENT OF NIGERIA, 1963 Sept. p. 168.
- Stommel, Henry. The anatomy of the atlantic, 1955 Jan. p. 30 [810]; the circulation of the abyss, 1958 July p. 85.
- Stone, Abraham. THE CONTROL OF FERTILITY, 1954 Apr. p. 31.
- Stone, Joseph K. oxygen in steelmaking, 1968 Apr. p. 24.
- Stone, Michael E. JUDAISM AT THE TIME OF CHRIST, 1973 Jan. p. 80.
- Stone, Richard. MATHEMATICS IN THE SOCIAL SCIENCES, 1964 Sept. p. 168.
- Storer, John H. BIRD AERODYNAMICS, 1952 Apr. p. 24.
- Storey, L. R. O. whistlers, 1956 Jan. p. 34. Stouffer, Samuel A. a study of attitudes, 1949 May p. 11.
- Strachey, Christopher. SYSTEM ANALYSIS AND PROGRAMMING, 1966 Sept. p. 112.
- Strecker, Robert L. POPULATIONS OF HOUSE MICE, 1955 Dec. p. 92.
- Strobel, Gary A. a mechanism of disease resistance in plants, 1975 Jan. p. 80. [1313]
- Strom, Richard G., George K. Miley and Jan Oort. GIANT RADIO GALAXIES, 1975 Aug. p. 26.
- Strong, Ian B., and Ray W. Klebesadel. COSMIC GAMMA-RAY BURSTS, 1976 Oct. p. 66.
- Strong, John. INFRARED ASTRONOMY BY BALLOON, 1965 Jan. p. 28.
- Strong, Leonell C. GENETICS AND CANCER, 1950 July p. 44.
- Strongin, Myron, William B. Sampson and Paul P. Craig. ADVANCES IN SUPERCONDUCTING MAGNETS, 1967 Mar. p. 114.
- Stroud, Robert M. A FAMILY OF PROTEIN-CUTTING PROTEINS, 1974 July p. 74. [1301]
- Struik, Dirk J. STONE AGE MATHEMATICS, 1948 Dec. p. 44.
- Strive, Otto. Double stars, 1949 Oct. p. 42; the Great meteor of 1947, 1950 June p. 42; the evolution of stars, 1953 May p. 34.
- Stumer, Louis M. HISTORY OF A DIG, 1955 Mar. p. 98.
- Stumpf, Paul K. ATP, 1953 Apr. p. 85.
- Sullenger, D. B., and C. H. L. Kennard. BORON CRYSTALS, 1966 July p. 96.
- Sullenger, D. B., and J. S. Prener. PHOSPHORS, 1954 Oct. p. 62. [237]
- Summerfield, Martin. HIGH TEMPERATURES. PROPULSION, 1954 Sept. p. 120.
- PROPULSION, 1954 Sept. p. 120.
 Summers, Claude M. THE CONVERSION OF
- ENERGY, 1971 Sept. p. 148. [668] Sundberg, Johan. THE ACOUSTICS OF THE SINGING
- VOICE, 1977 Mar. p. 82. [356] Suppes, Patrick. THE USES OF COMPUTERS IN EDUCATION, 1966 Sept. p. 206. [533]
- Surgenor, Douglas M. BLOOD, 1954 Feb. p. 54.
 Sutherland, Ivan E. COMPUTER INPUTS AND
 OUTPUTS, 1966 Sept. p. 86; COMPUTER
- OUTPUTS, 1966 Sept. p. 86; COMPUTER
 DISPLAYS, 1970 June p. 56.
 Sutherland, Ivan E., and Carver A. Mead.
- MICROELECTRONICS AND COMPUTER SCIENCE, 1977 Sept. p. 210. [383]
- Sutton, Sir Graham. MICROMETEOROLOGY, 1964 Oct. p. 62.
- Sutton, Richard M. A FAMILY OF SOLAR ECLIPSES, 1954 Feb. p. 36.
- Svirsky, Leon. THE ATOMIC ENERGY COMMISSION, 1949 July p. 30.
 Swan, Lawrence W. THE ECOLOGY OF THE HIGH
- HIMALAYAS, 1961 Oct. p. 68.
 Swann, Peter R. STRESS-CORROSION FAILURE,
- 1966 Feb. p. 72. Swanson, C. L. W. SOIL CONDITIONERS, 1953 Aug. p. 36.

Swanson, C. P., and W. D. McFfroy (1930) 11130(83), 1983 Jan. p. 22

Sweet, Richard G., Leonard A. Herzenberg and Leonore A. Herzenberg 111 ont service series (110 e111 souther), 1976 Mar. p. 108 Szent-Gyargyi, A. siesett it sa such, 1949 June

p. 22.

\mathcal{I}

Tacuber, Karl E. Reside Strat Storito vitos, 1965 Aug. p. 12. [626]

Facusch, H. William, Jr., Mary Ellen Avery and Nat-San Wang, 110-11 Sector Title Sequence 181 881, 1973 Apr. p. 74

Taffel, Henri, experience systems (Service of Proceedings and Services, 1970 Nov. p. 96, 1530)

Takahashi, Faro, and William A. Bassett viu COMPOSITION OF THE EXCHANGE FIREDRICA, 1965 June p. 100.

Falbot, Lawrence, Samuel A. Schaaf and Lee Edson, Getroutign at rivery at ropy sames, 1958 Jan. p. 36

Talmon, Shemaryahu, the New CONVENANTERS OF QUMRAN, 1971 Nov. p. 72; the SAMARITANS, 1977 Jan. p. 100, [690]

Tanenbaum, Morris, and J. E. Kunzler SUPERCONDUCTING MAGNETS, 1962 June p. 60 [279]

Tanner, J. M. LARLIER MATURATION IN MAN, 1968 Jun. p. 21; GROWING UP, 1973 Sept. p. 34. Tappagning Paul, and Bater Mology vo.

Tapponnier, Paul, and Peter Molnar, the COLLISION BETWEEN INDIA AND EURASIA, 1977 Apr. p. 30. [923]

Tarski, Alfred. TRUTH AND PROOF, 1969 June p. 63.

Taub, Alex, HIGH COMPRESSION, 1950 Feb. p. 16. Taussig, Helen B. THE THALIDOMIDE SYNDROME, 1962 Aug. p. 29. [1100]

Taylor, Barry N., Donald N. Langenberg and Douglas J. Scalapino. THE JOSEPHSON EXFECTS, 1966 May p. 30.

Taylor, Barry N., Donald N. Langenberg and William H. Parker. THE FUNDAMENTAL PHYSICAL CONSTANTS, 1970 Oct. p. 62. [337]

Taylor, C. R. THE LEAND AND THE ORYX, 1969
Jun. p. 88.

Taylor, Carl E. Population trends in an Indian village, 1970 July p. 106. [1184]

Taylor, D. Garth, Paul B. Sheatsley and Andrew M. Greeley. ATTITUDES TOWARD RACIAL INTEGRATION, 1978 June p. 42. [707]

Taylor, J. Herbert, THE DUPLICATION OF CHROMOSOMES, 1958 June p. 36. [60]

Taylor, Jean E., and Frederick J. Almgren, Jr. THE GEOMETRY OF SOAP FILMS AND SOAP BUBBLES, 1976 July p. 82.

Taylor, T. G. HOW AN EGGSHELL IS MADE, 1970 Mar. p. 88. [1171]

Tazieff, Haroun. THE AFAR TRIANGLE, 1970 Feb. p. 32. [891]

Tegart, W. J. McGregor, and Hugh J. McQueen. THE DEFORMATION OF METALS AT HIGH TEMPERATURES, 1975 Apr. p. 116.

TEMPERATURES, 1975 Apr. p. 116. Telegdi, V. L. HYPERNUCLEI, 1962 Jan. p. 50. Teleki, Geza. THE OMNIVOROUS CHIMPANZEE,

1973 Jan. p. 32. [682] Temin, Howard M. RNA-DIRECTED DNA SYNTHESIS, 1972 Jan. p. 24. [1239]

Templer, John, James Marston Fitch and Paul Corcoran. THE DIMENSIONS OF STAIRS, 1974 Oct. p. 82.

Tepper, Morris. TORNADOES, 1958 May p. 31.

Ferman, Lewis M., and settle transport for 1955 Jan. p. 25 [437], tim nort to sincrotite thosics by dividende usino, 1977 Sept. p. 162 [380]

Teuber, Marianne L. SOURCE FOR AMMIGUTES P. 100 (RESERVE) MANAGETS C. PACHER, 1974 July p. 90. [560]

Thiems, Paul. tin, proof express exaggings. 1958 Oct. p. 63.

Thimann, Kenneth V. Automocotors, 1950 Oct. p. 40

Thomas, Alexander, Stella Chess and Herbert G. Buch, the origins of personattry, 1970 Aug. p. 102. [529]

Thomas, E. Llewellyn, wave substrate the eye, 1968 Aug. p. 83, [516]

Thomas, Gordon A. ANTEL CIRON HOLL LIQUID, 1976 June p. 25.

Thompson, E. O. P. THE ISSUEDS MOLECULE, 1955 May p. 36.

Thompson, Homer A. rin Agora, 1950 Aug. p. 46.

Thompson, Warren S. FORULATION, 1950 Feb. p. 11.

Thompson, William R., and Ronald Melzack. LARLY ENVIRONMENT, 1956 Jan. p. 38, [469] Thorne, H. M. OIL FROMENIALE, 1952 Feb. p. 15. Thorne, Kip S. GRAVITATIONAL COLLAPSE, 1967

Nov. p. 88; the search for black holes, 1974 Dec. p. 32.

Thornton, Richard D., and Henry H. Kolm. ELECTROMAGNETIC FLIGHT, 1973 Oct. p. 17. Thorpe, W. H. THE LANGUAGE OF BIRDS, 1956

Oct. p. 128 [145]; DUET-SINGING BIRDS, 1973 Aug. p. 70. [1279]

Tickell, W. L. N. THE GREAT ALBATROSSES, 1970 Nov. p. 84, [1204]

Tien, P. K. INTEGRATED OPTICS, 1974 Apr. p. 28. Tietze, Christopher, and Sarah Lewit, abortion, 1969 Jan. p. 21 [1129]; LEGAL ABORTION, 1977 Jan. p. 21. [1348]

Tindergen, N. The Curious Behavior of the STICKLEBACK, 1952 Dec. p. 22 [414]; THE COURTSHIP OF ANIMALS, 1954 Nov. p. 42; DEFENSE BY COLOR, 1957 Oct. p. 48; THE EVOLUTION OF BLHAVIOR IN GULLS, 1960 Dec. p. 118. [456]

Tinsley, Beatrice M., J. Richard Gott III, James E. Gunn and David N. Schramm. WILL THE UNIVERSE EXPAND FOREVER?, 1976 Mar. p. 62. Tobolsky, Arthur V. THE MECHANICAL

PROPERTIES OF POLYMERS, 1957 Sept. p. 120. Todd, John H. THE CHEMICAL LANGUAGES OF FISHES, 1971 May p. 98. [1222]

Todd, Neil B. CATS AND COMMERCE, 1977 Nov. p. 100. [1370]

Toksoz, M. Nafi. the subduction of the Lithosphere, 1975 Nov. p. 88. [919]

Tolansky, Samuel. A TOPOGRAPHIC MICROSCOPE, 1954 Aug. p. 54.

Tomasz, Alexander. Cellular factors in Genetic transformation, 1969 Jan 38.

Tompkins, Edwin H., Jr., Aubrey B. Mickelwait and Robert A. Park. INTERPLANETARY NAVIGATION, 1960 Mar. p. 64.

Toomre, Alar and Juri. VIOLENT TIDES BETWEEN GALAXIES, 1973 Dec. p. 38.

Toong, Hoo-Min D. MICROPROCESSORS, 1977 Sept. p. 146. [379]

Topoff, Howard R. the social behavior of army ants, 1972 Nov. p. 70. [550]

Toth, Imre. non-euclidean geometry before euclid, 1969 Nov. p. 87.

Tourtellotte, Mark E., and Harold J. Motowitz. THE SMALLEST LIVING CELLS, 1962 Mar. p. 117. [1005] FOWNSEND, Marjone R., and Vago Flyger, the MIGHATION OF FOLAR BEARS, 1968 Feb. p. 108. [1102]

Frauble, Hermann, and Uwe Essmann, the MAGNETIC STRUCTURE OF SUPERCONDUCTORS, 1971 Mar. p. 74.

Treiman, S. B. The WEAK INTERACTIONS, 1959
Mar. p. 72, [247]

Trevier, P. C. GERM FREE ISOLATORS, 1964 July p. 78.

Tribus, Myron, and Edward C, McIrvine.

ENERGY AND INFORMATION, 1971 Sept. p. 179.

[670]
Triplett, Glover B. Jr., and David M. Van

Doren, Jr. Agriculture without tillage, 1977 Jan. p. 28. [1349]

Trowell, Hugh C. Kwashiorkor, 1954 Dec. p. 46.

Trytten, M. H. THE NEW SCIENCE FOUNDATION, 1950 July p. 11; SCIENTISTS, 1951 Sept. p. 71. Tsipis, Kosta, the accuracy of strategic missiles, 1975 July p. 14; cruise missiles,

1977 Feb. p. 20. [691] Tsu, Raphael, high technology in china, 1972

Dec. p. 13.
Tuck, James A. an archaic indian cemetery in Newfoundland, 1970 June p. 112 [657]; the Iroquois confederacy, 1971 Feb. p. 32, [658]

Tuck, James A., and Robert J. McGhee. AN ARCHAIC INDIAN BURIAL MOUND IN LABRADOR, 1976 Nov. p. 122.

Tucker, Albert W., and Herbert S. Bailey, Jr. TOPOLOGY, 1950 Jan. p. 18.

Tucker, Vance A. THE ENERGETICS OF BIRD FLIGHT, 1969 May p. 70. [1141]

Tucker, Wallace, and Paul Gorenstein. SUPERNOVA REMNANTS, 1971 July p. 74.

Turnbull, Colin M. THE LESSON OF THE PYGMIES, 1963 Jan. p. 28. [615]

Turnbull, David. THE UNDERCOOLING OF LIQUIDS, 1965 Jan. p. 38.

Turner, Barry E. Interstellar Molecules, 1973 Mar. p. 50.

Tustin, Arnold, FEEDBACK, 1952 Sept. p. 48. Tuttle, O. Frank. The origin of granite, 1955 Apr. p. 77.

Tweet, A. G., and W. C. Dash. OBSERVING DISLOCATIONS IN CRYSTALS, 1961 Oct. p. 107. Tyler, Albert. FERTILIZATION AND ANTIBODIES, 1954 June p. 70. [43]

Tytell, Alfred A., and Maurice R. Hilleman THE INDUCTION OF INTERFERON, 1971 July p. 26. [1226]

U

Uchida, Genko. TECHNOLOGY IN CHINA, 1966 Nov. p. 37.

Uhlir, Arthur, Jr. JUNCTION-DIODE AMPLIFIERS, 1959 June p. 118.

Uhlmann, D. R., and A. G. Kolbeck. THE MICROSTRUCTURE OF POLYMERIC MATERIALS, 1975 Dec. p. 96.

Ulam, Stanislaw M. COMPUTERS, 1964 Sept. p. 202.

Underwood, Benton J. FORGETTING, 1964 Mar. p. 91. [482]

Underwood, E. J., and A. J. Anderson. TRACE-ELEMENT DESERTS, 1959 Jan. p. 97.

Upatnicks, Juris, and Emmett N. Leith.

PHOTOGRAPHY BY LASER, 1965 June p. 24.
Updike, John. THE DANCE OF THE SOLIDS, 1969
Jan. p. 130.

Urey, Harold C. THE ORIGIN OF THE EARTH, 1952 Oct. p. 53. [833]

Vacroux, Andre G MICROCOMPUTERS, 1975 May p 32

Valentine, James W, and Eldridge M Moores PLATE TECTONICS AND THE HISTORY OF LIFE IN THEOCEANS, 1974 Apr p 80 [912]

Vali, Victor measuring earth strains by LASER, 1969 Dec p 88

Van Allen, James A THE ARTIFICIAL SATELLITE AS A RESEARCH INSTRUMENT, 1956 Nov p 41, RADIATION BELTS AROUND THE EARTH, 1959 Mar p 39, INTERPLANETARY PARTICLES AND FIELDS, 1975 Sept p 160

Van Beek, Gus W the rise and fall of arabia FELIX, 1969 Dec p 36 [653]

van de Hulst, H C "EMPTY SPACE, 1955 Nov

van den Heuvel, Edward P J, and Herbert Gursky x ray emitting double stars, 1975 Mar p 24

Van der Kloot, William G BRAINS AND cocoons, 1956 Apr p 131

van der Leun, Jan C, Farrington Daniels, Jr, and Brian E. Johnson SUNBURN, 1968 July p 38

Van Deusen, Edmund L CHEMICAL MILLING, 1957 Jan p 104

Van Doren, David M Jr, and Glover B Triplett, Jr agriculture without tillage, 1977 Jan p 28 [1349]

van Dresser, Peter the future of the amazon, 1948 May p 11

Van Essen, David, and John G Nicholls THE NERVOUS SYSTEM OF THE LEECH, 1974 Jan p 38 [1287]

Van Flandern, Thomas C is gravity getting WEAKER', 1976 Feb p 44

van Heyningen, Ruth what happens to the HUMAN LENS IN CATARACT, 1975 Dec p 70

van Heyningen, W E. TETANUS, 1968 Apr p 69 van Nieuwenhuizen, Peter, and Daniel Z Freedman SUPERGRAVITY AND THE UNIFICATION OF THE LAWS OF PHYSICS, 1978 Feb p 126 [397]

van Overbeek, Johannes THE CONTROL OF PLANT GROWTH, 1968 July p 75 [111]

Van Riper, Walker How a RATTLESNAKE STRIKES, 1953 Oct p 100

Vandervoort, Peter O THE AGE OF THE ORION NEBULA, 1965 Feb p 90

Vanek, Joann Time spent in Housework, 1974 Nov p 116

Vendryes, Georges A SUPERPHENIX A FULL SCALE BREEDER REACTOR, 1977 Mar p 26 [355]

Veron, Philippe, and M. J. Disney BL LACERTAE OBJECTS, 1977 Aug p 32 [372]

Verzar, Frederic The Aging of Collagen, 1963 Apr p 104 [155]

Veverka, Joseph PHOBOS AND DEIMOS, 1977 Feb p 30 [352]

Vevers, Henry G ANIMALS OF THE BOTTOM 1952 July p 68

Viele, Donald D, Ellis Levin and Lowell B Lidrenkump THE LUNAR ORBITER MISSIONS TO THE MOON, 1968 May p. 58

Vogt, Evon Z, and John M Roberts ASTUDY OF VALUES, 1956 July p 25

von Belesy, Georg THE EAR, 1957 Aug p 66

Not Frisch, Karl dialects in the language of THUBELS 1962 Aug p 78 [130] Von Hagen Victor W AMERICA'S OLDEST ROADS,

1952 July p 17

von Hippel, Frank, and Sidney D Drell LIMITED NUCLEAR WAR, 1976 Nov p 27 von Holst, Erich, and Ursula von Saint Paul ELECTRICALLY CONTROLLED BEHAVIOR, 1962 Mar p 50 [464]

von Saint Paul, Ursula, and Erich von Holst electrically controlled behavior, 1962 Mar p 50 [464]

Vonnegut, Bernard CLOUD SEEDING, 1952 Jan p 17

Waddington, C H HOW DO CELLS DIFFERENTIATE', 1953 Sept p 108, EXPERIMENTS IN ACQUIRED CHARACTERISTICS, 1953 Dec p 92

Wagner, Philip WINES GRAPE VINES AND CLIMATE, 1974 June p 106 [1298]

Wahl, Arnold C CHEMISTRY BY COMPUTER, 1970 Apr p 54

Wahl, Werner H, and Henry H Kramer NEUTRON ACTIVATION ANALYSIS, 1967 Apr p 68

Wainwright, Geoffrey woodhenges, 1970 Nov p 30, a CELTIC FARMSTEAD IN SOUTHERN BRITAIN, 1977 Dec p 156 [702]

Wainwright, Thomas E, and B J Alder MOLECULAR MOTIONS, 1959 Oct. p 113 [265]

Wald, George EYE AND CAMERA, 1950 Aug p 32 [46], THE ORIGIN OF LIFE, 1954 Aug p 44 [47], INNOVATION IN BIOLOGY, 1958 Sept p 100 [48], LIFE AND LIGHT, 1959 Oct p 92

Walford, Lionel A THE DEEP SEA LAYER OF LIFE, 1951 Aug. p 24

Walk, Richard D, and Eleanor J Gibson THE VISUAL CLIFF", 1960 Apr p 64 [402]

Walker, Graham THE STIRLING ENGINE, 1973 Aug p 80

Walker, R. M, R. L Fleischer and P B Price NUCLEAR TRACKS IN SOLIDS, 1969 June p 30

Wallace, Robert Keith, and Herbert Benson THE PHYSIOLOGY OF MEDITATION, 1972 Feb p 84 [1242]

Wallach, Hans THE PERCEPTION OF MOTION, 1959 July p 56 [409], THE PERCEPTION OF NEUTRAL COLORS, 1963 Jan p 107 [474]

Walsby, A E THE GAS VACUOLES OF BLUE GREEN ALGAE, 1977 Aug. p 90 [1367]

Walter, Gerard O TYPESETTING, 1969 May p 60 Walter, W Grey an imitation of life, 1950 May p 42, a MACHINE THAT LEARNS, 1951 Aug p 60, the electrical activity of the BRAIN, 1954 June p 54

Walton, Harold F 10N exchange, 1950 Nov p 48, CHELATION, 1953 June p 68

Walton, Harold F, and Harold Bloom CHEMICAL PROSPECTING, 1957 July p 41

Wampler, E. Joseph, and James E. Faller THE LUNAR LASER REFLECTOR, 1970 Mar p 38 Wang, Hao GAMES, LOGIC AND COMPUTERS, 1965

Nov p 98 Wang, Nai-San, Mary Ellen Avery and H William Taeusch, Jr THE LUNG OF THE NEWBORN INFANT, 1973 Apr p 74

Wang, William S-Y THE CHINESE LANGUAGE, 1973 Feb p 50

Wanick, Ralph W., Harold P. Furth and Morton A Levine STRONG MAGNETIC FIELDS, 1958 Feb p 28

Wannier, Gregory H THE NATURE OF SOLIDS 1952 Dic p 39 [249]

Warden Carl J ANIMAL INTELLIGENCE, 1951 June p 64

Warren, Charles R. ON THE ORIGIN OF GLACIERS, 1952 Aug p 57

Warren, James V THE PHYSIOLOGY OF THE GIRAFFE, 1974 Nov p 96 [1307]

Warren, Richard M and Roslyn P AUDITORY ILLUSIONS AND CONFUSIONS, 1970 Dec p 30 [531]

Warren, Shields IONIZING RADIATION AND MEDICINE, 1959 Sept p 164

Washburn, Bradford MAPPING MOUNT MCKINLEY, 1949 Jan p 46

Washburn, Sherwood L TOOLS AND HUMAN EVOLUTION, 1960 Sept p 62 [601]

Washburn, Sherwood L, and Irven DeVore THE SOCIAL LIFE OF BABOONS, 1961 June p 62 [614]

Waskow, Arthur I THE SHELTER CENTERED SOCIETY, 1962 May p 46 [637]

Wasserman, Edel CHEMICAL TOPOLOGY, 1962 Nov p 94 [286]

Watanabe, Tsutomu INFECTIOUS DRUG RESISTANCE, 1967 Dec p 19

Waterhouse, D F THE BIOLOGICAL CONTROL OF DUNG, 1974 Apr p 100

Waterman, Talbot H POLARIZED LIGHT AND ANIMAL NAVIGATION, 1955 July p 88

Watson, Fletcher G METEORS, 1951 June p 22, A CRISIS IN SCIENCE TEACHING, 1954 Feb p 27

Watts, C Robert, and Allen W Stokes THE SOCIAL ORDER OF TURKEYS, 1971 June p 112

Weaver, John H, and Ednor M Rowe THE USES OF SYNCHROTRON RADIATION, 1977 June p 32 [365]

Weaver, Warren THE MATHEMATICS OF COMMUNICATION, 1949 July p 11, PROBABILITY, 1950 Oct p 44, STATISTICS, 1952 Jan p 60, fundamental questions in SCIENCE, 1953 Sept p 47, LEWIS CARROLL MATHEMATICIAN, 1956 Apr p 116, THE **ENCOURAGEMENT OF SCIENCE, 1958 Sept** p 170

Weber, Annemarie, and John M Murray THE COOPERATIVE ACTION OF MUSCLE PROTEINS, 1974 Feb p 58 [1290]

Weber, Joseph THE DETECTION OF GRAVITATIONAL WAVES, 1971 May p 22 Webster, Adrian THE COSMIC BACKGROUND RADIATION, 1974 Aug p 26

Webster, Robert G, and Martin M Kaplan THE EPIDEMIOLOGY OF INFLUENZA, 1977 Dec p 88 [1375]

Wecker, Stanley C HABITAT SELECTION, 1964 Oct p 109 [195]

Weckler, J E NEANDERTHAL MAN, 1957 Dec p 89 [844] Weeks, James R EXPERIMENTAL NARCOTIC

ADDICTION, 1964 Mar p 46

Wehner, Rudiger POLARIZED-LIGHT NAVIGATION BY INSECTS, 1976 July p 106 [1342]

Weil, Robert J, and Joseph W Eaton THE MENTAL HEALTH OF THE HUTTERITES, 1953 Dec p 31 [440] Weinberg, Alvin M POWER REACTORS 1954 Dec

p 33, breeder reactors, 1960 Jan p 82 Weinberg, Steven UNIFIED THEORIES OF ELEMENTARY PARTICLE INTERACTION, 1974 July p 50

Weis-Fogh, Torkel THE FLIGHT OF LOCUSTS, 1956 Mar p 116, UNUSUAL MECHANISMS FOR THE GENERATION OF LIFT IN FLYING ANIMALS, 1975 Nov p 80 [1331]

Weiss, Esther, and Rollin D Hotchkiss TRANSFORMED BACTERIA, 1926 Nov. p. 48 [18] Weiss, Francis Joseph CHEMICAL AGRICULTURE, 1952 Aug p 15, THE USLFUL ALGAE, 1952 Dec. p 15

Weiss Jay M. PSYCHOLOGICAL FACTORS IN STRESS AND DISEASE, 1972 June p. 104 [544]

Swanson, C. P., and W. D. McElroy TRACE LLIMENTS, 1953 Jan p. 22

Sweet, Richard G., Leonard A. Herzenberg and Leonore A. Herzenberg records of Netherlands of Netherlands (1976 Mar. p. 108) Szent-Gyorgyi, A. Musclereslarch, 1949 June p. 22

\mathcal{I}

Tabor, Harry progress in solar power, 1956
July p 97

Facuber, Karl E RESIDENTIAL SEGREGATION, 1965 Aug p 12 [626]

Taeusch, H. William, Jr., Mary Ellen Avery and Nai-San Wang. THE LUNG OF THE NEWBORN INFANT, 1973 Apr. p. 74

Tajfel, Henri experiments in intergroup discrimination, 1970 Nov p 96 [530]

Takahashi, Taro, and William A Bassett the Composition of the Earth's interior, 1965
June p 100

Talbot, Lawrence, Samuel A. Schaaf and Lee Edson Ultrahigh altitude aerodynamics, 1958 Jan. p. 36

Talmon, Shemaryahu THE NEW CONVENANTERS OF QUMRAN, 1971 Nov p 72, THE SAMARITANS, 1977 Jan p 100 [690]

Tanenbaum, Morris, and J E Kunzler SUPERCONDUCTING MAGNETS, 1962 June p 60 [279]

Tanner, J M Earlier Maturation in Man, 1968 Jan p 21, growing up, 1973 Sept p 34

Tapponnier, Paul, and Peter Molnar the Collision between India and Eurasia, 1977 Apr p 30 [923]

Tarski, Alfred Truth and Proof, 1969 June p 63

Taub, Alex HIGH COMPRESSION, 1950 Feb p 16 Taussig, Helen B THE THALIDOMIDE SYNDROME, 1962 Aug p 29 [1100]

Taylor, Barry N, Donald N Langenberg and Douglas J Scalapino The Josephson effects, 1966 May p 30

Taylor, Barry N, Donald N Langenberg and William H Parker THE FUNDAMENTAL PHYSICAL CONSTANTS, 1970 Oct p 62 [337]

Taylor, C R THE ELAND AND THE ORYX, 1969
Jan p 88

Taylor, Carl E POPULATION TRENDS IN AN INDIAN VILLAGE, 1970 July p 106 [1184]

Taylor, D Garth, Paul B Sheatsley and Andrew M Greeley ATTITUDES TOWARD RACIAL INTEGRATION, 1978 June p 42 [707]

Taylor, J Herbert the DUPLICATION OF CHROMOSOMES, 1958 June p 36 [60]

Taylor, Jean E, and Frederick J Almgren, Jr THE GEOMETRY OF SOAP FILMS AND SOAP BUBBLES, 1976 July p 82

Taylor, T G HOW AN EGGSHELL IS MADE, 1970 Mar p 88 [1171]

Tazieff, Haroun the Afar Triangle, 1970 Feb p 32 [891]

Tegart, W J McGregor, and Hugh J McQueen THE DEFORMATION OF METALS AT HIGH TEMPERATURES, 1975 Apr p 116

Telegdi, V L HYPERNUCLEI, 1962 Jan p 50 Teleki, Geza THE OMNIVOROUS CHIMPANZEE, 1973 Jan p 32 [682]

Temin, Howard M RNA DIRECTED DNA SYNTHESIS, 1972 Jan p 24 [1239]

Templer, John, James Marston Fitch and Paul Corcoran THE DIMENSIONS OF STAIRS 1974 Oct p 82

Tepper, Morris TORNADOES, 1958 May p 31

Terman, Lewis M are scientists differenty 1955 Jan p 25 [437], the role of micro electropics in data processing, 1977 Sept p 162 [380]

Teuber, Marianne L sources of ambiguity in the prints of mauritise escher, 1974 July p. 90 [560]

Thieme, Paul THE INDO-EUROPEAN LANGUAGE, 1958 Oct p 63

Thimann, Kenneth V AUTUMN COLORS, 1950 Oct p 40

Thomas, Alexander, Stella Chess and Herbert G Birch THE ORIGIN OF PERSONALITY, 1970 Aug p 102 [529]

Thomas, E. Llewellyn Movements of the eye, 1968 Aug p 88 [516]

Thomas, Gordon A AN ELECTRON HOLE LIQUID, 1976 June p 28

Thompson, E. O. P. THE INSULIN MOLECULE, 1955 May p. 36

Thompson, Homer A THE AGORA, 1950 Aug p 46

Thompson, Warren S POPULATION, 1950 Feb p 11

Thompson, William R, and Ronald Melzack EARLY ENVIRONMENT, 1956 Jan p 38 [469] Thorne, H M OIL FROM SHALE, 1952 Feb p 15 Thorne, Kip S Gravitational collapse, 1967 Nov p 88, the Search for Black Holes, 1974 Dec p 32

Thornton, Richard D., and Henry H. Kolm ELECTROMAGNETIC FLIGHT, 1973 Oct p 17 Thorpe, W. H. THE LANGUAGE OF BIRDS, 1956 Oct p 128 [145], DUET SINGING BIRDS, 1973 Aug p. 70 [1279]

Tickell, W L N THE GREAT ALBATROSSES, 1970 Nov p 84 [1204]

Tien, P K INTEGRATED OPTICS, 1974 Apr p 28 Tietze, Christopher, and Sarah Lewit Abortion, 1969 Jan p 21 [1129], LEGAL ABORTION, 1977 Jan p 21 [1348]

Tinbergen, N THE CURIOUS BEHAVIOR OF THE STICKLEBACK, 1952 Dec p 22 [414], THE COURTSHIP OF ANIMALS, 1954 Nov p 42, DEFENSE BY COLOR, 1957 Oct p 48, THE EVOLUTION OF BEHAVIOR IN GULLS, 1960 Dec p 118 [456]

Tinsley, Beatrice M, J Richard Gott III, James E Gunn and David N Schramm will the UNIVERSE EXPAND FOREVER?, 1976 Mar p 62

Tobolsky, Arthur V THE MECHANICAL PROPERTIES OF POLYMERS, 1957 Sept p 120 Todd, John H THE CHEMICAL LANGUAGES OF FISHES 1971 May p 98 [1222]

Todd, Neil B Cats and commerce, 1977 Nov p 100 [1370]

Toksoz, M Nafi the subduction of the Lithosphere, 1975 Nov p 88 [919]

Tolansky, Samuel a topographic microscope, 1954 Aug p 54

Tomasz, Alexander Cellular Factors in Genetic transformation, 1969 Jan 38

Tompkins, Edwin H, Jr, Aubrey B Mickelwait and Roberi A Park interplanetary NAVIGATION, 1960 Mar p 64

Toomre, Alar and Juri violent tides between Galaxies, 1973 Dec p 38

Toong, Hoo-Min D MICROPROCESSORS, 1977 Sept p 146 [379]

Topoff, Howard R THE SOCIAL BEHAVIOR OF ARMY ANTS, 1972 Nov p 70 [550]

Toth, Imre non Euclidean Geometry Before Euclid, 1969 Nov p 87

Tourtellotte, Mark E., and Harold J Morowitz. THE SMALLEST LIVING CELLS, 1962 Mar p 117 [1005] Townsend, Marjorie R., and Vagn Flyger the MIGRATION OF POLAR BEARS, 1968 Feb p 108 [1102]

Trauble, Hermann, and Uwe Essmann the MAGNETIC STRUCTURE OF SUPERCONDUCTORS, 1971 Mar p 74

Treiman, S B the weak interactions, 1959
Mar p 72 [247]

Trexler, P C GERM FREE ISOLATORS, 1964 July p 78

Tribus, Myron, and Edward C McIrvine. ENERGY AND INFORMATION, 1971 Sept p 179 [670]

Triplett, Glover B Jr, and David M Van Doren, Jr Agriculture without tillage, 1977 Jan p 28 [1349]

Trowell, Hugh C kwashiorkor, 1954 Dec p 46

Trytten, M. H. THE NEW SCIENCE FOUNDATION, 1950 July p. 11, SCIENTISTS, 1951 Sept. p. 71
TSIDES, KOSTA, THE ACCURACY OF STRATEGIC

Tsipis, Kosta the accuracy of strategic Missiles, 1975 July p 14, cruise Missiles, 1977 Feb p 20 [691]

Tsu, Raphael HIGH TECHNOLOGY IN CHINA, 1972 Dec p 13

Tuck, James A an archaic indian cemetery in Newfoundland, 1970 June p 112 [657], the Iroquois confederacy, 1971 Feb p 32 [658]

Tuck, James A, and Robert J McGhee AN ARCHAIC INDIAN BURIAL MOUND IN LABRADOR, 1976 Nov p 122

Tucker, Albert W, and Herbert S Bailey, Jr TOPOLOGY, 1950 Jan p 18

Tucker, Vance A THE ENERGETICS OF BIRD FLIGHT, 1969 May p 70 [1141]

Tucker, Wallace, and Paul Gorenstein SUPERNOVA REMNANTS, 1971 July p 74 Turnbull, Colin M THE LESSON OF THE PYGMIES

1963 Jan p 28 [615] Turnbull, David the undercooling of Liquids, 1965 Jan p 38

Turner, Barry E Interstellar Molecules, 1973
Mar p 50

Tustin, Arnold FEEDBACK, 1952 Sept p 48
Tuttle, O Frank the origin of granite, 1955
Apr p 77

Tweet, A. G., and W. C. Dash observing DISLOCATIONS IN CRYSTALS, 1961 Oct. p. 107 Tyler, Albert Fertilization and antibodies, 1954 June p. 70 [43]

Tytell, Alfred A, and Maurice R. Hilleman the INDUCTION OF INTERFERON, 1971 July p 26 [1226]

U

Uchida, Genko technology in china 1966 Nov p 37 Uhlir, Arthur, Jr junction diode amplifiers

1959 June p 118

Uhlmann, D. R., and A. G. Kolbeck the MICROSTRUCTURE OF POLYMERIC MATERIALS 1975 Dec. p. 96

Ulam, Stanislaw M COMPUTERS 1964 Sept p 202

Underwood, Benton J FORGETTING, 1964 Mar p 91 [482]

Underwood, E. J., and A. J. Anderson TRACE ELEMENT DESERTS, 1959 Jan. p. 97 Upatnieks, Juris, and Emmett N. Leith PHOTOGRAPHY BY LASER, 1965 June p. 24 Updike, John THE DANCE OF THE SOLIDS, 1969

Jan p 130
Urey, Harold C The Origin of the Earth, 1952

Oct. p 53 [833]

Wollman, Elie L., and François Jacob SEXUALITY IN BACTERIA, 1956 July p 109 [50], VIRLSES AND GENES, 1961 June p 92 [89] Wolman, Abel the METABOLISM OF CITIES, 1965

Wong, Lem, James B McGuire and Eugene R. Spangler the size of the solar system, 1961

Wood, J Edwin the venous system, 1968 Jan p 86 [1093]

Wood, John A. CHONDRITES AND CHONDRULES, 1963 Oct p 64, the lunar soil, 1970 Aug p 14, THE MOON, 1975 Sept. p 92

Wood, Lowell, John L. Emmett and John Nuclolls fusion power by laser impulsion. 1974 June p 24

Wood, W Barry, Jr white BLOOD CELLS V BACTERIA, 1951 Feb p 48 [51], FEVER, 1957 June p 62

Wood, William B, and R. S Edgar BUILDING A BACTERIAL VIRUS, 1967 July p 60 [1079] Woodbury, Robert S THE ORIGINS OF THE LATHE,

1963 Apr p 132.

Woodcock, A. H SALTANDRAIN, 1957 Oct p 42.[850]

Woodson, Riley D COOLING TOWERS, 1971 May

Woodward, John D BIOTIN, 1961 June p 139 Woodwell, George M. THE ECOLOGICAL EFFECTS OF RADIATION, 1963 June p 40 [159], TOXIC SUBSTANCES AND ECOLOGICAL CYCLES, 1967 Mar p 24[1066], THE ENERGY CYCLE OF THE BIOSPHERE, 1970 Sept. p 64 [1190], THE CARBON DIOXIDE QUESTION, 1978 Jan p 34 [1376]

Woollard, G P THE LAND OF THE ANTARCTIC. 1962 Sept. p 151

Wooster, Warren S THE OCEAN AND MAN, 1969 Sept p 218 [888]

Worsley, Peter M CARGO CULTS, 1959 May D 117

Wortman, Sterling, AGRICULTURE IN CHINA, 1975 June p 13, FOOD AND AGRICULTURE, 1976 Sept p 30

Wright, James R. PERFORMANCE CRITERIA IN BLILDING, 1971 Mar p 16 [341]

Wight, Sir Charles THE ANTARCTIC AND THE LPPER ATMOSPHERE, 1962 Sept p 74 [858] Wright, R. H WHY MOSQUITO REPELLENTS REPEL,

1975 July p 104 Wrixon, G T, and R. H Sanders THE CENTER OF THE GALAXY, 1974 Apr p 66 Wroblewski, Felix, ENZYMES IN MEDICAL

DIAGNOSIS, 1961 Aug. p 99

Wulff, H E THE QANATS OF IRAN, 1968 Apr p 94

Wunderlich, Bernhard THE SOLID STATE OF POLYETHYLENE, 1964 Nov p 80

Wurtman, Richard J THE EFFECTS OF LIGHT ON THE HUMAN BODY, 1975 July p 68 [1325] Wurtman, Richard J, and John D Fernstrom.

NUTRITION AND THE BRAIN, 1974 Feb p 84

Wurtman, Richard J, and Julius Axelrod THE PINEAL GLAND, 1965 July p 50 [1015] Wyllie, Peter J THE EARTH'S MANTLE, 1975 Mar p 50 [915]

Wynn-Edwards, V C POPULATION CONTROL IN ANIMALS, 1964 Aug. p 68 [192]

Yagoda, Herman THETRACKS OF NUCLEAR PARTICLES, 1956 May p 40 [252]

Yahraes, Herbert, LABRADOR IRON, 1948 Nov p 9, the arrival of acetylene, 1949 Jan p 16

Yanofsky, Charles GENESTRUCTURE AND PROTEIN STRUCTURE, 1967 May p 80 [1074]

Yin, Theodore P THE CONTROL OF VIBRATION AND NOISE, 1969 Jan p 98

Yngve, Victor H COMPUTER PROGRAMS FOR translation, 1962 June p 68

Yoeli, Meir animal infections and human DISEASE, 1960 May p 161

Yonge, C M GIANT CLAMS, 1975 Apr p 96 York, Herbert F MILITARY TECHNOLOGY AND NATIONAL SECURITY, 1969 Aug p 17 [330], THE GREAT TEST BAN DEBATE, 1972 Nov p 15 [342], MULTIPLE WARHEAD MISSILES, 1973 NOV p 18, the debate over the hydrogen bomb, 1975 Oct p 106

York, Herbert F, and Jerome B Weisner NATIONAL SECURITY AND THE NUCLEAR TEST BAN, 1964 Oct. p 27 [319]

Young, Andrew, and Louise Y VENUS, 1975 Sept p 70

Young, Richard W VISUAL CELLS, 1970 Oct. p 80

Young, Robert A THE AIRGLOW, 1966 Mar p 102.

Young Vernon R., and Nevin S Scrimshaw THE PHYSIOLOGY OF STARVATION, 1971 Oct p 14 [1232], THE REQUIREMENTS OF HUMAN NUTRITION, 1976 Sept p 30

Yount, David E. THE STREAMER CHAMBER, 1967 Oct p 38

Yount, David E., and Frederick Murphy PHOTONS AS HADRONS, 1971 July p 94

Zackay, Victor F THE STRENGTH OF STEEL, 1963 Aug p 72.

Zackay, Victor F, and Earl R. Parker strong AND DUCTILE STEELS, 1968 Nov p 36 Zafiratos, Chris D THE TEXTURE OF THE

NUCLEAR SURFACE, 1972 Oct. p 100 Zahl, Paul A. THE EVOLUTION OF SEX, 1949 Apr

p 52 Zamecnik, Paul C THE MICROSOME, 1958 Mar

p 118 [52] Zare, Richard N LASER SEPARATION OF ISOTOPES,

1977 Feb p 86 [354] Zarem, A. M., and W. E. Rand, Sviog, 1952 May

p 15 Zebroski, Edwin L, and John F Flagg, ATOMIC

PILE CHEMISTRY, 1952 July p 62.

Zeeman, E. C. CATASTROPHE THEORY, 1976 Apr

Zeilik, Michael the birth of Massive Stars, 1978 Apr p 110 [3005]

Zeithn, Alexander HIGH PRESSURE TECHNOLOGY, 1965 May p 38

Ziman, John. THE THERMAL PROPERTIES OF MATERIALS, 1967 Sept. p 180

Zimmermann, Martin H How SAP MOVES IN TREES, 1963 Mar p 132 [154]

Zinder, Norton D "TRANSDUCTION" IN BACTERIA, 1958 Nov p 38 [106] Zirin, Harold hot spots in the atmosphere of

THE SUN, 1958 Aug. p 34

Zobel, Bruce J THE GENETIC IMPROVEMENT OF SOUTHERN PINES, 1971 Nov p 94

Zobrist, Albert L, and Frederic R. Carlson, Jr. AN ADVICE TAKING CHESS COMPUTER, 1973 June p 92

Zucker, Manone B BLOOD PLATELETS, 1961 Feb 8c q

Zuckerkandl, Emile. THE EVOLUTION OF немосьовъ, 1965 Мау р 110 [1012] Zuckerman, Harriet THE SOCIOLOGY OF THE NOBEL PRIZES, 1967 Nov p 25

Zuckerman, Sir Solly HORMONES, 1957 Mar p 76 [1122]

Zweifach, Benjamin W THE MICROCIRCULATION

от тне вьоор, 1959 Jan р 54

- Weiss, Mary C., and Boris Ephrussi. HYBRID SOMATIC CELLS, 1969 Apr. p. 26. [1137]
- Weisskopf, Victor F. THE THREE SPECTROSCOPIES, 1968 May p. 15; HOW LIGHT INTERACTS WITH MATTER, 1968 Sept. p. 60.
- Weisskopf, Victor F., and E. P. Rosenbaum, A MODEL OF THE NUCLEUS, 1955 Dec. p. 84. [261]
- Weisz, Paul B. THE EMBRYOLOGIST AND THE PROTOZOON, 1953 Mar. p. 76.
- Wellhausen, Edwin J. THE AGRICULTURE OF MEXICO, 1976 Sept. p. 128.
- Wells, G. P. WORM AUTOBIOGRAPHIES, 1959 June p. 132.
- Wells, Peter N. T., and Gilbert B. Devey ULTRASOUND IN MEDICAL DIAGNOSIS, 1978 May p. 98. [1389]
- Welty, Carl. BIRDS AS FLYING MACHINES, 1955 Mar. p. 88; THE GEOGRAPHY OF BIRDS, 1957 July p. 118.
- Wenk, Edward, Jr. the physical recources of the ocean, 1969 Sept. p. 166. [885]
- Wenner, Adrian M. SOUND COMMUNICATION IN HONEYBEES, 1964 Apr. p. 116. [181]
- Went, Frits W. The Plants of Krakatoa, 1949 Sept. p. 52; The ecology of desert Plants, 1955 Apr. p. 68 [114]; Air Pollution, 1955 May p. 62; Climate and Agriculture, 1957 June p. 82.
- Werblin, Frank S. THE CONTROL OF SENSITIVITY IN THE RETINA, 1973 Jan. p. 70. [1264]
- Werner, Georges H., Bachisio Latte and Andrea Contini. TRACHOMA, 1964 Jan. p. 79.
- Wertham, Fredric. THE PREVENTION OF MURDER, 1949 June p. 50; FREUD NOW, 1949 Oct. p. 50.
- Wessells, Norman K. How LIVING CELLS CHANGE SHAPE, 1971 Oct. p. 76. [1233]
- Wessells, Norman K., and William J. Rutter. PHASES IN CELL DIFFERENTIATION, 1969 Mar. p. 36. [1136]
- Westcott, Vernon C., Douglas Scott and William W. Seifert, THE PARTICLES OF WEAR, 1974 May p. 88.
- Westerhout, Gart. THE RADIO GALAXY, 1959 Aug. p. 44. [250]
- Westermann, William Linn. ANCIENT SLAVERY, 1949 June p. 40.
- Westing, Arthur H., and E. W. Pfeiffer. THE CRATERING OF INDOCHINA, 1972 May p. 20. [1248]
- Westoff, Charles F. the populations of the developed countries, 1974 Sept. p. 108.
- Westphal, James A., and Bruce C. Murray. INFRARED ASTRONOMY, 1965 Aug. p. 20.
- Westwater, J. W. THE BOILING OF LIQUIDS, 1954 June p. 64.
- Wexler, Harry. volcanoes and world climate, 1952 Apr. p. 74 [843]; the circulation of the atmosphere, 1955 Sept. p. 114.
- Wexler, Harry, and Morris Neiburger. weather SATELLITES, 1961 July p. 80.
- Weymann, Ray J. SEYFERT GALAXIES, 1969 Jan. p. 28.
- Whatmough, Joshua. NATURAL SELECTION IN LANGUAGE, 1952 Apr. p. 82.
- Wheat, Joe Ben. A PALEO-INDIAN BISON KILL, 1967 Jan. p. 44.
- Wheeler, Tamara S., Robert Maddin and James D. Muhly. How the Iron age began, 1977 Oct. p. 122. [699]
- Whelpton, Pascal K., Ronald F. Freedman and Arthur A. Campbell. FAMILY PLANNING IN THE U.S., 1959 Apr. p. 50.
- Whipple, Fred L. The dust cloud hypothesis, 1948 May p. 34; comets, 1951 July p. 22; the nature of comets, 1974 Feb. p. 48.
- Whipple, Fred L., and J. Allen Hynek.
 OBSERVATIONS OF SATELLITE 1, 1957 Dec. p. 37.

- White, Gilbert F. THE MEKONG RIVER PLAN, 1963 Apr. p. 49.
- White, Harvey E., and Paul Levatin. "FLOATERS" IN THE EYE, 1962 June p. 119.
- White, Kerf L. LIFE AND DEATH AND MEDICINE, 1973 Sept. p. 22; International Comparisons of Medical Care, 1975 Aug. p. 17.
- White, Lynn, Jr. MEDIEVAL USES OF AIR, 1970 Aug. p. 92. [336]
- White, Paul D. CORONARY THROMBOSIS, 1950 June p. 44.
- White, Paul Dudley, and J. Worth Estes. WILLIAM WITHERING AND THE PURPLE FOXGLOVE, 1965 June p. 110.
- White, Philip R. PLANT TISSUE CULTURES, 1950 Mar. p. 48.
- Whitney, Daniel E., and James L. Nevins COMPUTER-CONTROLLED ASSEMBLY, 1978 Feb. p. 62, [396]
- Whittaker, Sir Edmund. MATHEMATICS, 1950 Sept. p. 40; c. f. fitzgerald, 1953 Nov. p. 93; WILLIAM ROWAN HAMILTON, 1954 May p. 82.
- Wiegand, Clyde E. EXOTIC ATOMS, 1972 Nov. p. 102.
- Wiegand, Clyde E., and Emilio Segrè. THE ANTIPROTON, 1956 June p. 37. [244]
- Wiener, Alexander S. PARENTAGE AND BLOOD GROUPS, 1954 July p. 78.
- Wiener, Norbert. Cybernetics, 1948 Nov. p. 14. Wiesner, Jerome B. New METHODS OF RADIO TRANSMISSION, 1957 Jan. p. 46.
- Wiesner, Jerome B., and Herbert F. York.

 NATIONAL SECURITY AND THE NUCLEAR-TEST
 BAN, 1964 Oct. p. 27. [319]
- Wiggers, Carl J. THE HEART, 1957 May p. 74. [62] Wigglesworth, V. B. METAMORPHOSIS,
- POLYMORPHISM, DIFFERENTIATION, 1959 Feb. p. 100. [63]
- Wigner, Eugene P. VIOLATIONS OF SYMMETRY IN PHYSICS, 1965 Dec. p. 28. [301]
- Wigner, Eugene P., and Frederick Seitz. THE EFFECTS OF RADIATION ON SOLIDS, 1956 Aug. p. 76. [245]
- Wild, J. P. RADIO WAVES FROM THE SUN, 1955 June p. 40.
- Wiley, R. Haven, Jr. the lek mating system of the sage grouse, 1978 May p. 114. [1390]
- Wilkins, Lawson. THE THYROID GLAND, 1960 Mar. p. 119.
- Wilkinson, David T., and P. James E. Peebles. THE PRIMEVAL FIREBALL, 1967 June p. 28.
- Will, Clifford M. Gravitation Theory, 1974 Nov. p. 24.
- Williams, Carroll M. THE METAMORPHOSIS OF INSECTS, 1950 Apr. p. 24; INSECT BREATHING, 1953 Feb. p. 28; THE JUVENILE HORMONE, 1958 Feb. p. 67; THIRD-GENERATION PESTICIDES, 1967 July p. 13. [1078]
- Williams, Curtis A., Jr. IMMUNO-ELECTROPHORESIS, 1960 Mar. p. 130. [84] Williams, Howel. VOLCANOES, 1951 Nov. p. 45. Williams, L. Pearce, HUMPHRY DAVY, 1960 June
- p. 106. Williams, Roger J. Alcoholics and Metabolism, 1948 Dec. p. 50.
- Williams, Simon. Synthetic fibers, 1951 July p. 37; wood structure, 1953 Jan. p. 64.
- Williams-Dean, Glenna, and Vaughn M.
 Bryant, Jr. THE COPROLITES OF MAN, 1975 Jan.
 p. 100. [687]
- Willows, A. O. D. GIANT BRAIN CELLS IN MOLLUSKS, 1971 Feb. p. 68. [1212] Wills, Christopher. GENETIC LOAD, 1970 Mar. p. 98. [1172]
- Wilson, Albert G. THE BIG SCHMIDT, 1950 Dec. p. 34.

- Wilson, Curtis. How did kepler discover his first two laws?, 1972 Mar. p. 92.
- Wilson, Donald M. THE FLIGHT-CONTROL SYSTEM OF THE LOCUSTS, 1968 May p. 83.
- Wilson, Edward O. THE FIRE ANT, 1958 Mar. p. 36; PHEROMONES, 1963 May p. 100 [157]; ANIMAL COMMUNICATION, 1972 Sept. p. 52 [1258]; SLAVERY IN ANTS, 1975 June p. 32. [1323]
- Wilson, Edward O., and Berthold K. Hölldobler. WEAVER ANTS, 1977 Dec. p. 146. [1373]
- Wilson, Herbert A., Jr. Sonic Boom, 1962 Jan. p. 36. Wilson, J. Tuzo. Continental Drift, 1963 Apr.
- p. 86 [868].
 Wilson, J. Tuzo, and Kevin C. Burke, HOTSPOTS
- Wilson, J. Tuzo, and Kevin C. Burke. Hot spots on the Earth's Surface, 1976 Aug. p. 46. [920]
- Wilson, Mitchell. Joseph Henry, 1954 July p. 72; PRIESTLEY, 1954 Oct. p. 68; COUNT RUMFORD, 1960 Oct. p. 158.
- Wilson, O. C. a new scale of stellar distances, 1961 Jan. p. 107 [254].
- Wilson, R. R. THE BATAVIA ACCELERATOR, 1974
 Feb. p. 72.
- Wilson, Richard, and Alan M. Litke. ELECTRON-POSITRON COLLISIONS, 1973 Oct. p. 104. Wilson, Robert R. Particle accelerators,
- 1958 Mar. p. 64 [251]. Wilson, S. S. BICYCLE TECHNOLOGY, 1973 Mar.
- p. 81.
 Wilson, Victor I INHIBITION IN THE CENTRAL
- Wilson, Victor J. Inhibition in the Central Nervous system, 1966 May p. 102.
- Wilson, Wilbor O. POULTRY PRODUCTION, 1966
 July p. 56.
- Wimsatt, William A. Bats, 1957 Nov. p. 105. Windle, William F. Brain Damage By ASPHYXIA AT BIRTH, 1969 Oct. p. 76 [1158].
- Winfree, Arthur T. ROTATING CHEMICAL REACTIONS. 1974 June p. 82.
- Winograd, Shmuel. How FAST CAN COMPUTERS ADD?, 1968 Oct. p. 93.
- Winter, Peter M., and Edward Lowenstein.

 ACUTE RESPIRATORY FAILURE, 1969 Nov. p. 23.
- Wirsen, Carl O., and Holger W. Jannasch. MICROBIAL LIFE IN THE DEEP SEA, 1977 June p. 42. [926]
- Witkin, Herman A. THE PERCEPTION OF THE UPRIGHT, 1959 Feb. p. 50. [410]
 Witt, Peter. SPIDER WEBS AND DRUGS, 1954 Dec.
- p. 80.
 Wittkower, Andrew B., and Peter H. Rose.
- TANDEM VAN DE GRAAFF ACCELERATORS, 1970
 Aug. p. 24.
- Wittreich, Warren J. VISUAL PERCEPTION AND PERSONALITY, 1959 Apr. p. 56 [438]. Wolf, A. V. THIRST, 1956 Jan. p. 70; BODY
- WATER, 1958 Nov. p. 125.
 Wolfe, A. E., H. M. Schurmeier and R. L.
 Heacock. THE RANGER MISSIONS TO THE MOON,
- 1966 Jan. p. 52. Wolfe, C. W. the blister hypothesis, 1949 June
- p. 16. Wolfe, John H. Jupiter, 1975 Sept. p. 118. Wolfe, Raymond. MAGNETO-
- THERMOELECTRICITY, 1964 June p. 70. Wolff, Werner. THREE MYSTERIES OF EASTER ISLAND, 1949 Feb. p. 50.
- Wolfgang, Richard. CHEMISTRY AT HIGH VELOCITIES, 1966 Jan. p. 82; CHEMICAL ACCELERATORS, 1968 Oct. p. 44.
- Wolfle, Dael, intellectual resources, 1951 Sept. p. 42; the support of science in the U.S., 1965 July p. 19.
- Wollin, Goesta, and David B. Ericson. MICRO-PALEONTOLOGY, 1962 July p. 96. [856]

SCIENTIFIC AMERICAN

Index to Titles

A

ABERRATION THE DISCOVERY OF STELLAR, by Albert B Stewart, 1964 Mar p 100
ABORIGINE, THE PREHISTORY OF THE AUSTRALIAN, by D J Mulvaney, 1966 Mar p 84 [628]
ABORTION, by Christopher Tietze and Sarah Lewit, 1969 Jan p 21 [1129]
ABORTION LEGAL, by Christopher Tietze and Sarah Lewit, 1977 Jan p 21 [1345]
ABSOLUTE JUDGMENTS THE RELATIVISM OF, by Allen Parducci, 1968 Dec p 84
ABSOLUTE ZERO NEW METHODS FOR

APPROACHING, by O V Lounasmaa, 1969
Dec p 26
ABSORPTION LINES OF QUASI STELLAR OBJECTS

THE, by E Margaret Burbidge and C Roger Lynds, 1970 Dec p 22
ABSORPTION OF LICHT IN PHOTOSYNTHESIS THE, by Govindjee and Rajni Govindjee, 1974 Dec

p 68 [1310] ABSORPTION OF RADIO WAVES IN SPACE, THE, by A E Lilley, 1957 July p 48

ABUND INCE OF THE ELEMENTS THE, by Armin J Deutsch, 1950 Oct p 14

ABYSS ANIMALS OF THE, by Anton F. Bruun, 1957 Nov. p. 50

Aurss the circulation of the, by Henry Stommel, 1958 July p 85

ACCELLRATION THE PHYSIOLOGICAL EFFECTS OF, by Terence A. Rogers, 1962 Feb. p. 60 ACCELLRATOR ADMINITION AND TO by Ernest D.

COURANTOR VIOLBILLION VOLT by Ernest D
Courant, 1953 May p 40

ACCELLRATOR TARGETS, POLARIZED, by Gilbert Shapiro 1966 July p 68 ACCELLRATOR THE BATANIA by R R Wilson

1974 Feb p 72

ACCILERATOR THE LINEAR, by Wolfgang Panofsky, 1954 Oct. p. 40 [234]

MCLLERATOR THE TWO MILE LLECTRON, by I dward L. Ginzton and William Kirk. 1961 Nov. p. 49 [322]

Molfgang, 1968 Oct. p. 44

Metrikators confictive (1947), by Denis Keele, 1972 Apr. p. 22 Metrikators expects, by Robert R. Wilson

1958 Mar p. 64 [251] ACCLIFICATIONS LANDISMANN DEGRAME, by Peter H. Rose and Andrew B. Winkower, 1970 Aug. p. 24 ACCELERATORS WORLD S, 1948 Oct p 18
ACCURACY OF STRATEGIC MISSILES THE, by Kosta
Tsipis, 1975 July p 14

ACETABULARIA A USEFUL GIANT CELL, by Aharon Gibor, 1966 Nov p 118 [1057]

ACETYLCHOLINE, THE RESPONSE TO, by Henry A Lester, 1977 Feb p 106 [1352]

ACETYLENE THE ARRIVAL OF, by Herbert Yahraes, 1949 Jan p 16

ACOUSTIC METHODS IN PSYCHIATRY, by Peter F Ostwald, 1965 Mar p 82 [492] ACOUSTIC SURFACE WAVES, by Gordon S Kino

and John Shaw, 1972 Oct p 50

ACOUSTICAL HOLOGRAPHY, by Alexander F Metherell, 1969 Oct p 36

ACOUSTICS ARCHITECTURAL, by Vern O Knudsen, 1963 Nov p 78

ACOUSTICS OF THE SINGING VOICE. THE, by Johan Sundberg, 1977 Mar p 82 [356]

ACQUIRED CHARACTERISTICS EXPERIMENTS IN by C H Waddington, 1953 Dec p 92

Mar p 30 [14]

ACTH MOLECULE, THE, by Choh Hao Li, 1963 July p. 46 [160] ACTINOMYCIN BINDS TO DNA HOW, by Henry M.

Sobell 1974 Aug p 82 [1303] ACTION OF ADHESIVES THE, by Norman A de

Bruyne, 1962 Apr p 114

ACTION OF INSULIN THE, by Rachmiel Levine and M S Goldstein, 1958 May p 99

M five MM MS OF the DEEP SEA FLOOR, by John D Isaacs and Richard A Schwartzlose, 1975 Out p 84

ACC TE RESPIRATORY F VILLEL, by Peter M Winter and Edward Lowenstein, 1969 Nov p. 23

ADAPTIONS TO COLD by Laurence Irving, 1966 Jan p 94 [1032]

ADD HOW FAST CAN COMPUTERS, by Shmuel Winograd 1968 Oct p 93

ADDICTION EXPERIMENTAL NARCOTIC, by James R. Wecks. 1964 Mar. p. 46

ADDITIVES 1000 by G O Kermode, 1972 Mar p 15

ADMISIVES THE ACTION OF, by Norman A. de Brusne, 1902 Apr. p. 114 ADMICENS ERINGISTE IN VISUAL TERRETION, THE,

by Walter C. Gogel, 1978 May p. 126. [582] admistrable brain of hibers stock theory N. Mrosonsky, 1968 Mar. p. 110. ADVANCED COMPOSITE MATERIALS, by Henry R Clauser, 1973 July p 36

ADVANCES IN FIELD EMISSION, by W. P. Dyke, 1964 Jan p. 108

ADVANCES IN HOLOGRAPHY, by Keith S Pennington, 1968 Feb p 40

ADVANCES IN OPTICAL MASERS, by Arthur L Schawlow, 1963 July p 34 [294]

ADVANCES IN PATTERN RECOGNITION, by Richard G Casey and George Nagy, 1971 Apr p 56 ADVANCES IN SUPERCONDUCTING MAGNETS, by William B. Sampago, Paul P. Craus and

William B. Sampson, Paul P. Craig and Myron Strongin, 1967 Mar. p. 114 ADVERSARY PROCESS, PSYCHIATRISTS AND THE, by

David L Bazelon, 1974 June p 18

ADVICE TAKING CHESS COMPUTER AN, by Albert

ADVICE TAKING CHESS COMPUTER AN, by Albert L Zobrist and Frederic R Carlson, Jr., 1973

June p 92

AECS ISOTOPES THE, 1949 Apr p 16
AERIAL MIGRATION OF INSECTS THE, by C G
Johnson, 1963 Dec p 132 [173]

AERODYNAMIC WHISTLES, by Robert C. Chanaud, 1970 Jan p. 40
AERODYNAMICS OF BOOMERANGS. THE, by Felix

Hess, 1968 Nov p 124

AERODY NAMICS ULTRAHIGH ALTITUDE, by Samuel A Schaaf, Lawrence Talbot and Lee Edson, 1958 Jan p 36

AETHER DRIFT THE COSMIC BACKGROUND RADINTION AND THE NEW, by Richard A Muller, 1978 May p 64 [3008]

NEAR TRIANGLE, THE, by Haroun Tazieff, 1970 Feb p 32 [891]

AFRICA LARLY MANIN, by J. Desmond Clark, 1958 July p. 76

AFRICA, ISIMILA A PALFOI THIC SITE IN, by F Clark Howell, 1961 Oct p 118

AFRICA THE MAN APEN OF SOUTH, by Wilton M Krogman, 1948 May p. 16

MRICA THE TALKING DREMS OF, by John F Carrington, 1971 Dec. p. 90

AFRICA WILDLIFE III SBANDAY IN, by F. Traser Darling, 1960 Nov. p. 123

AFTEREFFECTS IN PERCEPTION, DV W. C. H. Prentice, 1962 Jan p. 44

by Olga Lizner Faircau and Michael C Corbillis 1976 Dec. p. 42 [574]

MIRIMAGES, by G. S. Brindley, 1963 Oct. p. 54 [1059]

,			

- ANALYSIS OF MATERIALS BY X RAY ABSORPTION
 THE, by Edward A Stern, 1976 Apr p 96
 ANALYSIS OF TELEVISION PROGRAMS AN, by
 Dallas W Smythe, 1951 June p 15
 ANALYTIC GEOMETRY THE INVENTION OF, by C
- ANALYTIC GEOMETRY THE INVENTION OF, by Carl B Boyer, 1949 Jan p 40
- ANALYTIC INSTRUMENTS IN PROCESS CONTROL, by F W Karasek, 1969 June p 112
- ANATOMY OF INFLATION THE 1953-1975, by W Halder Fisher, 1971 Nov p 15 ANATOMY OF THE ATLANTIC THE, by Henry
- Stommel, 1955 Jan p 30 [810]
 ANCESTORS OF MAMMALS THE, by Edwin H
- Colbert, 1949 Mar p 40
 ANCHOVY CRISIS THE, by C P Idyll, 1973 June p 22 [1273]
- ANCIENT ARARAT, by Tahsin Ozguç, 1967 Mar p 38
- ANCIENT CUMAE, by Raymond V Schoder, S J, 1963 Dec p 108
- ANCIENT FLUIDS IN CRYSTALS, by Edwin Roedder, 1962 Oct p 38 [854]
- ANCIENT GLASS, by Robert H Brill, 1963 Nov p 120
- ANCIENT GREEK COMPUTER, AN, by Derek J de Solla Price, 1959 June p 60
- ANCIENT JERICHO, by Kathleen M Kenyon, 1954 Apr p 76
- ANCIENT JERUSALEM, by Kathleen M Kenyon, 1965 July p 84
- ANCIENT LIFE OF THE ANTARCTIC THE, by George A Doumani and William E Long, 1962 Sept p 168 [863]
- ANCIENT MASTERS OF THE DESERT, by Michael Evenari and Dov Koller, 1956 Apr p 39
- Westermann, 1949 June p 40
- ANCIENT TEMPERATURES, by Cesare Emiliani, 1958 Feb p 54 [815]
- ANCIENT WORLD TRADE IN THE, by Lionel Casson, 1954 Nov p 98
- ANDES, EARLY MAN IN THE, by Richard S MacNeish, 1971 Apr p 36
- ANDES EARLY MAN IN THE, by William J Mayer-Oakes, 1963 May p 116
- ANDES THE EVOLUTION OF THE, by David E James, 1973 Aug. p 60 [910]
- ANDROMEDA NEBULA, THE DYNAMICS OF THE, by Vera C Rubin, 1973 June p 30
- ANEMIA, SICKLE CELL, by George W Gray, 1951 Aug. p 56
- ANESTHESIA, by Henry K Beecher, 1957 Jan p 70
- ANGER THE PHYSIOLOGY OF FEAR AND, by Daniel H Funkenstein, 1955 May p 74 [428]
- ANGIOTENSIN, by Irvine H Page, F Merlin Bumpus and Hans J Schwartz, 1959 Mar p 54
- ANIMAL AND HUMAN DISEASES THE KINSHIP OF, by Robert W Leader, 1967 Jan p 110
 ANIMAL COMMUNICATION, by Edward O Wilson,
- 1972 Sept p 52 [1258]

 ANMAL COURTSHIP, by Lorus J and Margery J
- Milne, 1950 July p 52 ANIMALELECTRICITY, by H B Steinbach, 1950 Feb p 40
- ASMALINFECTIONS AND HUMAN DISEASE, by Meir Yoeli, 1960 May p. 161
- ASIMALISTELLIGENCE, by Carl J Warden, 1951 June p 64
- A MAL IONIZING RADIATION AND THE WHOLE, by John F. Loutit, 1959 Sept. p. 117.
 ANNAL NAVIGATION POLARIZED LIGHT AND, by
- Talbot H Waterman, 1955 July p 88

 MAL SUTRITION THE CYCLES OF FLANT AND, by
 Jules Janick Carl H Noller and Charles L.
 Rhykerd 1976 Sept p 74

- ANIMAL PSYCHOPHYSICS EXPERIMENTS IN, by Donald S Blough, 1961 July p 113 [458] ANIMAL SOUNDS IN THE SEA, by Marie Poland
- Fish, 1956 Apr p 93 Animals by Audubon, 1952 Jan p 64
- ANIMALS CHANGE COLOR, HOW, by Lorus J and Margery J Milne, 1952 Mar p 64
- ANIMALS HOW TO TEACH, by B F Skinner, 1951 Dec p 26 [423]
- ANIMALS "IMPRINTING IN, by Eckhard H Hess, 1958 Mar p 81 [416]
- ANIMALS IN CAPTIVITY REALLY WILD? ARE WILD, by H Hediger, 1954 May p 76
- ANIMALS IN THE SNOW, by William O Pruitt, Jr, 1960 Jan p 60
- ANIMALS NOCTURNAL, by H N Southern, 1955 Oct p 88
- ANIMALS OF THE ABYSS, by Anton F Bruun, 1957 Nov p 50
- ANIMALS OF THE BOTTOM, by Henry G Vevers, 1952 July p 68
- ANIMALS OF THE DEEP SEA FLOOR, ACTIVE, by John
 D Isaacs and Richard A Schwartzlose, 1975
 Oct p 84
- ANIMALS POPULATION CONTROL IN, by V C Wynne-Edwards, 1964 Aug. p 68 [192]
- ANIMALS PRE CAMBRIAN, by Martin F Glaessner, 1961 Mar p 72 [837]
- ANIMALS RUN HOW, by Milton Hildebrand, 1960 May p 148
- ANIMALS THAT NOURISH MAN THE PLANTS AND, by Jack R. Harlan, 1976 Sept p 88
- ANIMALS THE BLOOD RELATIONSHIPS OF, by Alan A Boyden, 1951 July p 59
- ANIMALS THE BUOYANCY OF MARINE, by Eric Denton, 1960 July p 118
- ANIMALS THE COURTSHIP OF, by N Tinbergen, 1954 Nov p 42
- ANIMALS THE FIGHTING BEHAVIOR OF, by Irenaus Eibl-Eibesfeldt, 1961 Dec p 112 [470]
- ANIMALS THE LIFE SPAN OF, by Alex Comfort, 1961 Aug p 108
- ANIMALS THE SUN NAVIGATION OF, by Hans Kalmus, 1954 Oct p 74
- ANIMALS UNUSUAL MECHANISMS FOR THE GENERATION OF LIFT IN FLYING, by Torkel Weis-Fogh, 1975 Nov p 80 [1331]
- ANIONS OF THE ALKALI METALS, by James L Dye, 1977 July p 92 [368]
- ANNUAL BIOLOGICAL CLOCKS, by Eric T
 Pengelley and Sally J Asmundson, 1971 Apr
 p 72 [1219]
- ANT THE ARMY, by T C Schneirla and Gerard Piel, 1948 June p 16
- ANT THE FIRE, by Edward O Wilson, 1958 Mar p 36
- ANTARCTIC AND THE UPPER ATMOSPHERE, THE, by Sir Charles Wright, 1962 Sept p 74 [858]
- ANTARCTIC AND THE WEATHER, THE, by Morton J Rubin, 1962 Sept p 84 [859]
- ANTARCTIC OCEAN THE, by V G Kort, 1962 Sept p 113 [860]
- ANTARCTIC THE, 1962 Sept issue ANTARCTIC THE, by A P Crary, 1962 Sept. p 60 [857]
- ANTARCTIC THE ANCIENT LIFE OF THE, by George A Doumani and William E. Long 1962 Sept p 168 [863]
- ANTARCTIC THE ICE OF THE, by Gordon de Q Robin, 1962 Sept. p 132 [861]
- ANTARCTIC THE LAND OF THE, by G. P. Woollard, 1962 Sept. p. 151
- ANTARCTIC THE OCEANIC LIFE OF THE, by Robert Cushman Murphy, 1962 Sept p 186
- ANTARCTIC THE SALA, by Carl R. Eklund, 1964
 Feb p 94

- ANTARCTIC THE TERRESTRIAL LIFE OF THE, by George A Llano, 1962 Sept p 212 [865] ANTHROPOLOGY, by A L Kroeber, 1950 Sept p 87
- ANTHROPOLOGY AN EXPERIMENT IN APPLIED, by John and Mary Collier, 1957 Jan p 37 ANTHROPOLOGY OF MANNERS THE, by Edward T
- Hall, Jr , 1955 Apr p 84 anthropology of Posture, the, by Gordon W
- Hewes, 1957 Feb p 122

 ANTI BALLISTIC MISSILE SYSTEMS, by Richard L
- Garwin and Hans A Bethe, 1968 Mar p 21
 ANTIBIOTICS AGAINST PLANT DISEASES, by David
- Pramer, 1955 June p 82
 ANTIBIOTICS AND THE GENETIC CODE, by Luigi
- Gorini, 1966 Apr p 102 antibiotics the, by George W Gray, 1949 Aug.
- ANTIBIOTICS THE PROGRESS OF, by Kenneth B
- Raper, 1952 Apr p 49
 ANTIBODIES ARE MADE, HOW, by Sir Macfarlane
- Burnet, 1954 Nov p 74
 ANTIBODIES FERTILIZATION AND, by Albert Tyler,
- ANTIBODIES FERTILIZATION AND, by Albert Tyler
 1954 June p 70 [43]
- ANTIBODIES HOW CELLS MAKE, by G J V Nossal, 1964 Dec p 106 [199]
- ANTIBODIES THE SPECIFICITY OF, by S J Singer, 1957 Oct p 99
- ANTIBODIES THE STRUCTURE OF, by R. R. Porter, 1967 Oct p 81 [1083]
- ANTIBODIES THE STRUCTURE AND FUNCTION OF, by Gerald M Edelman, 1970 Aug. p 34 [1185]
- ANTIBODY COMBINING SITE, THE, by J Donald Capra and Allen B Edmundson, 1977 Jan p 50 [1350]
- ANTIGENS HOW CELLS ATTACK, by Robert S Speirs, 1964 Feb p 58
- ANTIGENS THE STRUCTURE AND FUNCTION OF HISTOCOMPATIBILITY, by Bruce A Cunningham, 1977 Oct p 96 [1369]
- ANTI MATTER, by Geoffrey Burbidge and Fred Hoyle, 1958 Apr p 34
- ANTIMATTER AND COSMOLOGY, by Hannes Alfven, 1967 Apr p 106 [311]
- ANTIOCHUS I THE TOMB OF, by Theresa Goell and Friedrich Karl Doerner, 1956 July p 38
- ANTIPROTON THE, by Emilio Segre and Clyde E Wiegand, 1956 June p 37 [244]
- ANTIQUITY A FORGOTTEN EMPIRE OF, by Stuart Piggott, 1953 Nov p 42
- ANTIQUITY OF HUMAN WALKING THE, by John Napier, 1967 Apr p 56 [1070]
- ANTIQUITY OF MODERN MAN, by Loren C Eiseley, 1948 July p 16
- ANTIQUITY THE IDEA OF MANS, by Glyn E. Daniel, 1959 Nov p 167
- ANTI SCIENTIFIC ATTITUDE, A STUDY OF THE, by Bernard and Judith Mausner, 1955 Feb p 35 [453]
- ANTISUBMARINE WARFARE AND NATIONAL SECURITY, by Richard L. Garwin, 1972 July p. 14 [345]
- ANTLERS, HORNS AND, by Walter Modell, 1969 Apr p 114 [1139]
- ANTS AND THEIR GUESTS, COMMUNICATION BETWELN, by Bert Holldobler, 1971 Mar p 86 [1218]
- ANTS, SLAVERY IN, by Edward O Wilson, 1975 June p 32, [1323]
- ANTS, THE SOCIAL BEHAVIOR OF ARMY, by Howard R. Topoff, 1972 Nov. p. 70 [550]
 ANTS, WEAVER, by Berthold K. Holldobler and
- Edward O Wilson, 1977 Dec p 146 [1373]
 ANNIETY THE BIOCHEMISTRY OF, by Ferris N
 Pitts, Jr., 1969 Feb. p. 69 [521]

- AGAMI MNON MYCI NAL, CITY OF, by George E Mylonas, 1954 Dec p 72
- AGAMMAGLOBULINLMIA, by David Gitlin and Charles A Janeway, 1957 July p 93
- AGASSIZ LOUIS, by Alfred Sherwood Romer, 1949 July p 48
- AGE OF SCIENCE, 1950 Sept issue AGE OF SCIENCE, THE 1900-1950, by J R Oppenheimer, 1950 Sept p 20
- AGE OF THE ELEMENTS IN THE SOLAR SYSTEM THE, by John H Reynolds, 1960 Nov p 171 [253]
- AGE OF THE LLEMENTS THE, by David N Schramm, 1974 Jan p 69
- AGE OF THE ORION NEBULA THE, by Peter O Vandervoort, 1965 Feb p 90
- AGE OF THE SOLAR SYSTEM THE, by Harrison Brown, 1957 Apr p 80 [102]
- AGE THE BIOLOGY OF OLD, by Florence Moog, 1948 June p 40
- AGING EXPERIMENTS IN, by Albert I Lansing, 1953 Apr p 38
- AGING GREAT LAKLS THE, by Charles F Powers and Andrew Robertson, 1966 Nov p 94 [1056]
- AGING HUMAN CELLS AND, by Leonard Hayflick, 1968 Mar p 32 [1103]
- AGING OF COLLAGEN THE, by Frederic Verzar, 1963 Apr. p 104 [155]
- AGING THE PHYSIOLOGY OF, by Nathan W Shock, 1962 Jan p 100
- AGORA THE, by Homer A Thompson, 1950 Aug p 46
- AGRICOLAE, GEORGII DE REMETALLICA, 1951 Feb p 46
- AGRICULTURAL PLAN A WORLD, by Addeke H Boerma, 1970 Aug p 54 [1186]
- AGRICULTURAL PRODUCTION THE AMPLIFICATION OF, by Peter R Jennings, 1976 Sept p 180
- AGRICULTURAL REVOLUTION AN EARLIER, by Wilhelm G Solheim II, 1972 Apr p 34 [675] AGRICULTURAL REVOLUTION THE, by Robert J
- Braidwood, 1960 Sept p 130 [605]
- AGRICULTURAL SOCIETY THE FLOW OF ENERGY IN AN, by Roy A Rappaport, 1971 Sept p 116 [666]
- AGRICULTURAL SYSTEMS, by Robert S Loomis, 1976 Sept p 98
- AGRICULTURE CHEMICAL, by Francis Joseph Weiss, 1952 Aug p 15
- AGRICULTURE, CLIMATE AND, by Frits W Went, 1957 June p 82
- AGRICULTURE, FOOD AND, 1976 Sept *Issue*AGRICULTURE, FOOD AND, by Sterling Wortman,
 1976 Sept p 30
- AGRICULTURE IN CHINA, by Sterling Wortman, 1975 June p 13
- AGRICULTURE IN DEVELOPING COUNTRIES THE DEVELOPMENT OF, by W David Hopper, 1976 Sept p 196
- AGRICULTURE OF INDIA THE, by John W Mellor, 1976 Sept p 154
- AGRICULTURE OF MEXICO THE, by Edwin J Wellhausen, 1976 Sept p 128
- AGRICULTURE OF THE US THE, by Earl O Heady, 1976 Sept p 106
 AGRICULTURE SALT WATER, by Hugo Boyko,
- 1967 Mar p 89
- AGRICULTURE, THE RESOURCES AVAILABLE FOR, by Roger Revelle, 1976 Sept p 164
- AGRICULTURE WITHOUT TILLAGE, by Glover B Triplett, Jr, and David M Van Doren, Jr, 1977 Jan p 28 [1349]
- AIR ACT OF 1970 ENFORCING THE CLEAN, by Noel de Nevers, 1973 June p 14
- de Nevers, 1973 June p 14
 AIR ENGINE, THE PHILIPS, by Leonard Engel, 1948
 July p 52

- AIR MEDIEVAL USES OF, by Lynn White, Jr., 1970 Aug p 92 [336]
- AIR MOTHS MELANISM AND CLEAN, by J. A. Bishop and Laurence M. Cook, 1975 Jan p. 90 [1314]
- AIR POLLUTION, by Frits W Went, 1955 May
- AIR POLLUTION AND PUBLIC HEALTH, by Walsh McDermott, 1961 Oct p 49 [612]
- AIR POLLUTION THE CONTROL OF, by A J Haugen-Smit, 1964 Jun p 24 [618]
- AIRBORNE MAGNETOMETER THE, by Homer Jensen, 1961 June p 151
- AIRBORNE RADAR SIDE LOOKING, by Homer Jensen, L C Graham, Leonard J Porcello and Emmett N Leith, 1977 Oct p 84 [386]
- AIR BREATHING FISHES, by Kjell Johansen, 1968
 Oct p 102 [1125]
- AIR CONDITIONED TERMITE NESTS, by Martin Luscher, 1961 July p 138
- AIRCRAFT INERTIAL NAVIGATION FOR, by Cornelius T Leondes, 1970 Mar p 80
- AIRCRAFT LANDING ALL WEATHER, by Frank B Brady, 1964 Mar p 25
- AIRCRAFT VERTICAL TAKEOFF, by John P Campbell, 1960 Aug p 41
- AIRCRAFT WAKES VORTEXES IN, by Norman A Chigier, 1974 Mar p 76
- AIRFLOW CAR, THE HISTORY OF THE, by Howard S Irwin, 1977 Aug p 98 [697]
- AIRGLOW AURORA AND, by C T Elvey and Franklin E Roach, 1955 Sept p 140
- AIRGLOW THE, by Robert A Young, 1966 Mar p 102
- AIRGLOW THE SPECTRUM OF THE, by M F Ingham, 1972 Jan p 78
- AIRPLANES HIGH SPEED RESEARCH, by Walter T Bonney, 1953 Oct p 36
- AIRPORT RADAR, 1952 June p 64
- AIR TRAFFIC CONTROL, by Seymour Deitchman and Alfred Blumstein, 1960 Dec p 47
- ALARM REACTION THE, by P C Constantinides and Niall Carey, 1949 Mar p 20 [4]
- ALBATROSSES THE GREAT, by W L N Tickell, 1970 Nov p 84 [1204]
- ALBINOS VISUAL PATHWAYS IN, by R W Guillery, 1974 May p 44 [1294]
- ALCHEMY AND ALCHEMISTS, by John Read, 1952 Oct p 72
- ALCHEMY WAS RECEIVED HOW NEWER, by Lawrence Badash, 1966 Aug p 88
- ALCOHOL IN THE BODY, by Leon A Greenberg, 1953 Dec p 86
- ALCOHOL, THE METABOLISM OF, by Charles S Lieber, 1976 Mar p 25 [1336]
- ALCOHOLICS AND METABOLISM by Roger J Williams, 1948 Dec p 50
- ALEUTS THE, by T P Bank, 1958 Nov p 112
 ALFRED WEGENER AND THE HYPOTHESIS OF
 CONTINENTAL DRIFT, by A Hallam, 1975 For
- CONTINENTAL DRIFT, by A Hallam, 1975 Feb p 88
- ALGAE AS FOOD, by Harold W Milner, 1953 Oct p 31
- ALGAE, THE BLUE GREEN, by Patrick Echlin, 1966
 June p 74
- ALGAE, THE GAS VACUOLES OF BLUE GREEN, by A E Walsby, 1977 Aug p 90 [1367]
- ALGAE, THE USEFUL, by Francis Joseph Weiss, 1952 Dec p 15
- ALGEBRA, by W W Sawyer, 1964 Sept p 70 ALGORITHMS, by Donald E Knuth, 1977 Apr p 63 [360]
- ALGORITHMS THE EFFICIENCY OF, by Harry R Lewis and Christos H Papadimitriou, 1978 Jan p 96 [395]
- ALIENATION THE ORIGINS OF, by Urie Bronfenbrenner, 1974 Aug p 53 [561]

- ALIGNED CRYSTALS IN METALS, by B D Cullity, 1959 Apr p 125
- ALKALI METALS ANIONS OF THE, by James L. Dy 1977 July p 92 [368]
- ALKALOIDS, by Trevor Robinson, 1959 July p 113 [1082]
- ALLERGIC MECHANISMS IN NERVOUS DISEASE, by Elvin A Kabat, 1949 July p 16
- ALLERGY A DEFINITION, by Bela Schick, 1948
 July p 26
- ALLOYING MECHANICAL, by J S Benjamin, 1976 May p 40 ALL-WEATHER AIRCRAFT LANDING, by Frank B
- Brady, 1964 Mar p 25
- ALPS PREHISTORICART IN THE, by Emmanuel Anati, 1960 Jan p 52
- ALTITUDE, THE PHYSIOLOGY OF HIGH, by Raymond J Hock, 1970 Feb p 52 [1168] ALTITUDES LIFE AT HIGH, by George W Gray,
- 1955 Dec p 58

 AMAZON THE FUTURE OF THE, by Peter van

 Dresser, 1948 May p 11
- AMBER INSECTS IN, by Charles T Brues, 1951 Nov p 56 [838]
- AMBO THE KUANYAMA, by Edwin M Loeb, 1950 Oct p 52
- AMERICA A STONE AGE CAMPSITE AT THE GATEWAY TO, by Douglas D Anderson, 1968 June p 24 AMERICA CANALS IN, by John S McNown, 1976 July p 116
- AMERICA ELEPHANT HUNTING IN NORTH, by C Vance Haynes, Jr, 1966 June p 104
- AMERICA HOW MAN CAME TO NORTH, by Ralph Solecki, 1951 Jan p 11
- AMERICAN LANGUAGE THE CHANGING, by Jotham Johnson, 1955 Aug p 78
- AMERICAN LANGUAGES, THE, by Hans Kurath, 1950 Jan p 48
- AMERICAN PEOPLE, THE HEALTH OF THE, by Forrest E Linder, 1966 June p 21 AMERICANS, THE EARLY, by Frank H H Roberts,
- 1951 Feb p 15 america's oldest roads, by Victor W von
- Hagen, 1952 July p 17
 AMOEBAE AND MAMMALS HORMONES IN SOCIAL,
- by John Tyler Bonner, 1969 June p 78
 AMOEBAE, DIFFERENTIATION IN SOCIAL, by John
- Tyler Bonner, 1959 Dec p 152 AMOEBAE, THE SOCIAL, by John Tyler Bonner, 1949 June p 44
- AMOEBOID MOVEMENT, by Robert D Allen, 1962 Feb p 112 [182]
- AMORPHOUS SEMICONDUCTOR DEVICES, by David Adler, 1977 May p 36 [362]
- AMORPHOUS SEMICONDUCTOR SWITCHING, by H K Henisch, 1969 Nov p 30
- AMP CYCLIC, by Ira Pastan, 1972 Aug p 97 [1256]
- AMPHIBIAN METAMORPHOSIS THE CHEMISTRY OF, by Earl Frieden, 1963 Nov p 110 [170]
- AMPLIFICATION OF AGRICULTURAL PRODUCTION THE, by Peter R Jennings, 1976 Sept p 180 AMPLIFIERS JUNCTION DIODE, by Arthur Uhlir, Jr., 1959 June p 118
- ANALGESIC DRUGS, by Marshall Gates, 1966 Nov p 131 [304]
- ANALYSIS BY INFRARED CHEMICAL, by Bryce Crawford, Jr., 1953 Oct p 42 [257]
- ANALYSIS NEUTRON ACTIVATION, by Werner H
 Wahl and Henry H Kramer, 1967 Apr p 68
 ANALYSIS NONSTANDARD, by Martin Davis and
- Reuben Hersh, 1972 June p 78

 ANALYSIS OF BRAIN WAVES THE, by Mary A B

 Brazier, 1962 June p 142
- ANALYSIS OF ECONOMIC INDICATORS, THE, by Geoffrey H Moore, 1975 Jan p 17

- ANALYSIS OF MATERIALS BY X-RAY ABSORPTION. THE, by Edward A. Stern, 1976 Apr. p. 96. ANALYSIS OF TELEVISION PROGRAMS, AN, by Dallas W. Smythe, 1951 June p. 15.
- ANALYTIC GEOMETRY, THE INVENTION OF, by Carl B. Boyer, 1949 Jan. p. 40.
- ANALYTIC INSTRUMENTS IN PROCESS CONTROL, by F. W. Karasek, 1969 June p. 112.
- ANATOMY OF INFLATION, THE: 1953-1975, by W. Halder Fisher, 1971 Nov. p. 15.
 ANATOMY OF THE ATLANTIC, THE, by Henry
- Stommel, 1955 Jan. p. 30. [810]
 ANCESTORS OF MAMMALS, THE, by Edwin H.
- Colbert, 1949 Mar. p. 40.
 ANCHOVY CRISIS. THE, by C. P. Idyll, 1973 June
- p. 22. [1273] ANCIENT ARARAT, by Tahsin Özgüç, 1967 Mar.
- p. 38.
- ANCIENT CUMAE, by Raymond V. Schoder, S. J., 1963 Dec. p. 108.
- ANCIENT FLUIDS IN CRYSTALS, by Edwin Roedder, 1962 Oct. p. 38. [854]
- ANCIENT GLASS, by Robert H. Brill, 1963 Nov. p. 120.
- ANCIENT GREEK COMPUTER, AN, by Derek J. de Solla Price, 1959 June p. 60.
- ANCIENT JERICHO, by Kathleen M. Kenyon, 1954 Apr. p. 76.
- ANCIENT JERUSALEM, by Kathleen M. Kenyon, 1965 July p. 84.
- ANCIENT LIFE OF THE ANTARCTIC, THE, by George A. Doumani and William E. Long, 1962 Sept. p. 168. [863]
- ANCIENT MASTERS OF THE DESERT, by Michael Evenari and Dov Koller, 1956 Apr. p. 39.
- ANCIENT SLAVERY, by William Linn Westermann, 1949 June p. 40.
- ANCIENT TEMPERATURES, by Cesare Emiliani, 1958 Feb. p. 54. [815]
- ANCIENT WORLD, TRADE IN THE, by Lionel Casson, 1954 Nov. p. 98.
- ANDES, EARLY MAN IN THE, by Richard S. MacNeish, 1971 Apr. p. 36.
- ANDES, EARLY MAN IN THE, by William J. Mayer-Oakes, 1963 May p. 116.
- ANDES, THE EVOLUTION OF THE, by David E. James, 1973 Aug. p. 60. [910]
- ANDROMEDA NEBULA, THE DYNAMICS OF THE, by Vera C. Rubin, 1973 June p. 30.
- ANEMIA, SICKLE-CELL, by George W. Gray, 1951 Aug. p. 56.
- ANESTHESIA, by Henry K. Beecher, 1957 Jan. p. 70.
- ANGER, THE PHYSIOLOGY OF FEAR AND, by Daniel H. Funkenstein, 1955 May p. 74. [428]
- ANGIOTENSIN, by Irvine H. Page, F. Merlin Bumpus and Hans J. Schwartz, 1959 Mar. p. 54.
- ANIMAL AND HUMAN DISEASES, THE KINSHIP OF, by Robert W. Leader, 1967 Jan. p. 110.
- ANIMAL COMMUNICATION, by Edward O. Wilson, 1972 Sept. p. 52. [1258]
- ANIMAL COURTSHIP, by Lorus J. and Margery J. Milne, 1950 July p. 52.
- ASIMAL ELECTRICITY, by H. B. Steinbach, 1950 Feb. p. 40.
- Meir Yoeli, 1960 May p. 161.
- ASSISTALINTELLIGENCE, by Carl J. Warden, 1951
 June p. 64.
- ASMAL IONIZING RADIATION AND THE WHOLE, by John F. Louit, 1959 Sept. p. 117.
- ANIMAL NAVIGATION, POLARIZED LIGHT AND, by Talbot H. Waterman, 1955 July p. 88.
- ASMAL SUTRITION, THE CYCLES OF PLANT AND, by Jales Janick, Carl H. Noller and Charles L. Rhykerd, 1976 Sept. p. 74.

- ANIMAL PSYCHOPHYSICS, EXPERIMENTS IN, by Donald S. Blough, 1961 July p. 113. [458] ANIMAL SOUNDS IN THE SEA, by Marie Poland
- Fish, 1956 Apr. p. 93. Animals by audubon, 1952 Jan. p. 64.
- ANIMALS CHANGE COLOR, How, by Lorus J. and Margery J. Milne, 1952 Mar. p. 64.
- ANIMALS, HOW TO TEACH, by B. F. Skinner, 1951 Dec. p. 26. [423]
- ANIMALS, "IMPRINTING" IN, by Eckhard H. Hess, 1958 Mar. p. 81. [416]
- ANIMALS IN CAPTIVITY REALLY WILD? ARE WILD, by H. Hediger, 1954 May p. 76.
- ANIMALS IN THE SNOW, by William O. Pruitt, Jr., 1960 Jan. p. 60.
- ANIMALS, NOCTURNAL, by H. N. Southern, 1955 Oct. p. 88.
- ANIMALS OF THE ABYSS, by Anton F. Bruun, 1957 Nov. p. 50.
- ANIMALS OF THE BOTTOM, by Henry G. Vevers, 1952 July p. 68.
- ANIMALS OF THE DEEP-SEA FLOOR, ACTIVE, by John D. Isaacs and Richard A. Schwartzlose, 1975 Oct. p. 84.
- ANIMALS, POPULATION CONTROL IN, by V. C. Wynne-Edwards, 1964 Aug. p. 68. [192] ANIMALS, PRE-CAMBRIAN, by Martin F.
- Glaessner, 1961 Mar. p. 72. [837]
- ANIMALS RUN, HOW, by Milton Hildebrand, 1960 May p. 148.
- animals that nourish man, the plants and, by Jack R. Harlan, 1976 Sept. p. 88.
- ANIMALS. THE BLOOD RELATIONSHIPS OF, by Alan A. Boyden, 1951 July p. 59.
- ANIMALS, THE BUOYANCY OF MARINE, by Eric Denton, 1960 July p. 118.
- ANIMALS. THE COURTSHIP OF, by N. Tinbergen, 1954 Nov. p. 42.
- ANIMALS, THE FIGHTING BEHAVIOR OF, by Irenäus Eibl-Eibesfeldt, 1961 Dec. p. 112. [470]
- ANIMALS, THE LIFE SPAN OF, by Alex Comfort, 1961 Aug. p. 108.
- ANIMALS. THE SUN NAVIGATION OF, by Hans Kalmus, 1954 Oct. p. 74.
- animals, unusual mechanisms for the generation of lift in flying, by Torkel Weis-Fogh, 1975 Nov. p. 80. [1331]
- ANIONS OF THE ALKALI METALS, by James L. Dye, 1977 July p. 92. [368]
- ANNUAL BIOLOGICAL CLOCKS, by Eric T.
 Pengelley and Sally J. Asmundson, 1971 Apr.
 p. 72. [1219]
- p. 72. [1213] ANT. THE ARMY, by T. C. Schneirla and Gerard Piel, 1948 June p. 16.
- ANT. THE FIRE, by Edward O. Wilson, 1958 Mar. p. 36.
- ANTARCTIC AND THE UPPER ATMOSPHERE. THE, by Sir Charles Wright, 1962 Sept. p. 74. [858] ANTARCTIC AND THE WEATHER. THE, by Morton J.
- Rubin, 1962 Sept. p. 84. [859]
- ANTARCTIC OCEAN, THE, by V. G. Kort, 1962 Sept. p. 113. [860]
- ANTARCTIC, THE, 1962 Sept. issue.
 ANTARCTIC, THE, by A. P. Crary, 1962 Sept.
- p. 60. [857]
 ANTARCTIC, THE ANCIENT LIFE OF THE, by George
 A. Doumani and William E. Long, 1962 Sept.
 p. 168. [863]
- ANTARCTIC, THE ICE OF THE, by Gordon de Q. Robin, 1962 Sept. p. 132. [861]
- ANTARCTIC, THE LAND OF THE, by G. P. Woollard, 1962 Sept. p. 151.
- ANTARCTIC, THE OCEANIC LIFE OF THE, by Robert Cushman Murphy, 1962 Sept. p. 186.
- ANTARCTIC, THE SKUA, by Carl R. Eklund, 1964 Feb. p. 94.

- ANTARCTIC, THE TERRESTRIAL LIFE OF THE, by George A. Llano, 1962 Sept. p. 212. [865] ANTHROPOLOGY, by A. L. Kroeber, 1950 Sept. p. 87.
- ANTHROPOLOGY, AN EXPERIMENT IN APPLIED, by John and Mary Collier, 1957 Jan. p. 37.
- ANTHROPOLOGY OF MANNERS, THE, by Edward T. Hall, Jr., 1955 Apr. p. 84.
- ANTHROPOLOGY OF POSTURE, THE, by Gordon W. Hewes, 1957 Feb. p. 122.
- ANTI-BALLISTIC-MISSILE SYSTEMS, by Richard L. Garwin and Hans A. Bethe, 1968 Mar. p. 21.
- ANTIBIOTICS AGAINST PLANT DISEASES, by David Pramer, 1955 June p. 82.
- ANTIBIOTICS AND THE GENETIC CODE, by Luigi Gorini, 1966 Apr. p. 102.
- ANTIBIOTICS, THE, by George W. Gray, 1949 Aug. p. 26.
- ANTIBIOTICS, THE PROGRESS OF, by Kenneth B. Raper, 1952 Apr. p. 49.
- ANTIBODIES ARE MADE, How, by Sir Macfarlane Burnet, 1954 Nov. p. 74.
- ANTIBODIES, FERTILIZATION AND, by Albert Tyler, 1954 June p. 70. [43]
- ANTIBODIES, HOW CELLS MAKE, by G. J. V. Nossal, 1964 Dec. p. 106. [199]
- ANTIBODIES, THE SPECIFICITY OF, by S. J. Singer, 1957 Oct. p. 99.
- ANTIBODIES, THE STRUCTURE OF, by R. R. Porter, 1967 Oct. p. 81. [1083]
- ANTIBODIES, THE STRUCTURE AND FUNCTION OF, by Gerald M. Edelman, 1970 Aug. p. 34. [1185]
- ANTIBODY COMBINING SITE, THE, by J. Donald Capra and Allen B. Edmundson, 1977 Jan. p. 50. [1350]
- ANTIGENS. HOW CELLS ATTACK, by Robert S. Speirs, 1964 Feb. p. 58.
- ANTIGENS. THE STRUCTURE AND FUNCTION OF HISTOCOMPATIBILITY, by Bruce A. Cunningham, 1977 Oct. p. 96. [1369]
- ANTI-MATTER, by Geoffrey Burbidge and Fred Hoyle, 1958 Apr. p. 34.
- ANTIMATTER AND COSMOLOGY, by Hannes Alfvén, 1967 Apr. p. 106. [311]
- ANTIOCHUS I. THE TOMB OF, by Theresa Goell and Friedrich Karl Doerner, 1956 July p. 38. ANTIPROTON, THE, by Emilio Segrè and Clyde E.
- Wiegand, 1956 June p. 37. [244]

 ANTIQUITY, A FORGOTTEN EMPIRE OF, by Stuart
- Piggott, 1953 Nov. p. 42.

 ANTIQUITY OF HUMAN WALKING, THE, by John
- Napier, 1967 Apr. p. 56. [1070] ANTIQUITY OF MODERN MAN, by Loren C. Eiseley,
- 1948 July p. 16.
 ANTIQUITY, THE IDEA OF MAN'S, by Glyn E.
 Daniel 1959 Nov. p. 167.
- Daniel, 1959 Nov. p. 167.
 ANTI-SCIENTIFIC ATTITUDE. A STUDY OF THE, by
- Bernard and Judith Mausner, 1955 Feb. p. 35. [453]
 ANTISUBMARINE WARFARE AND NATIONAL
- SECURITY, by Richard L. Garwin, 1972 July p. 14. [345]
- ANTLERS, HORNS AND, by Walter Modell, 1969 Apr. p. 114. [1139]
- ANTS AND THEIR GUESTS, COMMUNICATION BETWEEN, by Bert Holldobler, 1971 Mar. p. 86. [1218]
- ANTS, SLAVERY IN, by Edward O. Wilson, 1975 June p. 32. [1323]
- ANTS, THE SOCIAL BEHAVIOR OF ARMY, by Howard R. Topoff, 1972 Nov. p. 70, [550]
- ANTS, WEAVER, by Berthold K. Holldobler and Edward O. Wilson, 1977 Dec. p. 146. [1373] ANMETY, THE BIOCHEMISTRY OF, by Ferris N. Pitts, Jr., 1969 Feb. p. 69. [521]

- ANXIETY THE NATURE AND MEASURLMENT OF, by Raymond B Cattell, 1963 Mar p 96 [475]
- APE, TEACHING LANGUAGE TO AN, by Ann James Premack and David Premack, 1972 Oct p 92 [549]
- APE MEN THE, by Robert Broom, 1949 Nov p 20 [832]
- APES THE EARLIEST, by Elwyn L Simons, 1967 Dec p 28 [636]
- APPENDICULARIANS, by Alice Alldredge, 1976
 July p 94
- APPETITE AND OBESITY, by Jean Mayer, 1956 Nov p 108.
- APPLICATIONS OF LASER LIGHT, by Donald R Hernott, 1968 Sept p 140
- APPLICATIONS OF SUPERCONDUCTIVITY, by
 Theodore A Buchhold, 1960 Mar p 74 [270]
- APPLICATIONS OF THE COANDA EFFECT, by Imants Reba, 1966 June p 84
- AQUATIC LIFE, THERMAL POLUTION AND, by John R Clark, 1969 Mar p 18 [1135]
- ARABIA FELIX THE RISE AND FALL OF, by Gus W Van Beek, 1969 Dec p 36 [653]
- ARARAT ANCIENT, by Tahsin Özgüç, 1967 Mar p 38
- ARCHAEOLOGY A CRISIS IN U.S., by Frank H H Roberts, 1948 Dec p 12
- ARCHAEOLOGY AND THE EARLIEST ART, by Hallam L Movius, Jr., 1953 Aug p 30
- ARCHAEOLOGY IN THE MAYA HIGHLANDS
 UNDERWATER, by Stephan F Borhegyi, 1959
 Mar p 100
- ARCHAEOLOGY OF WINCHESTER THE, by Martin Biddle, 1974 May p 32
- ARCHAIC INDIAN BURIAL MOUND IN LABRADOR
 AN, by James A Tuck and Robert J McGhee,
 1976 Nov p 122
- ARCHAIC INDIAN CEMETERY IN NEWFOUNDLAND
 AN, by James A Tuck, 1970 June p 112 [657]
 ARCHER FISH THE, by K H Luling, 1963 July
 p 100
- ARCHITECTURAL ACOUSTICS, by Vern O Knudsen, 1963 Nov p 78
- ARCHITECTURAL VAULTING, by J H Acland, 1961 Nov p 144
- ARCHITECTURE AND CLIMATE, PRIMITIVE, by James Marston Fitch and Daniel P Branch, 1960 Dec p 134
- ARCHITECTURE COMPUTER GRAPHICS IN, by Donald P Greenberg, 1974 May p 98
- ARCHITECTURE, PASSIVE COOLING SYSTEMS IN IRANIAN, by Mehdi N Bahadon, 1978 Feb p 144 [705]
- arctic early man in the, by J $\,L\,$ Giddings, Jr , 1954 June p 82
- ARCTIC FLOWERS IN THE, by Rutherford Platt, 1956 Feb p 88
- ARCTIC ICE ISLANDS IN THE, by Kaare Rodahl, 1954 Dec p 40
- ARCTICOCEAN THE, by P A Gordienko, 1961 May p 88
- ARE SCIENTISTS DIFFERENT, by Lewis M. Terman, 1955 Jan p. 25 [437]
- ARE WILD ANIMALS IN CAPTIVITY REALLY WILD, by H Hediger, 1954 May p 76
- ARISTOTLE'S PHYSICS, by Carl B Boyer, 1950 May p 48
- ARITHMETIC BEHAVIOR IN CHIMPANZEES, by Charles B Ferster, 1964 May p 98 [484]
- ARITHMETIC UNSOLVED PROBLEMS IN, by Howard DeLong, 1971 Mar p 50
- ARMAMENTS THE COST OF WORLD, by Archibald S Alexander, 1969 Oct p 21 [650] ARMS CONTROL, RECONNAISSANCE AND, by Ted
- Greenwood, 1973 Feb p 14 [346] ARMS OF THE GALANY THE, by Bart J Bok, 1959 Dec p 92

- ARMS RACE, THE DYNAMICS OF THE, by George W Rathjens, 1969 Apr p 15 [642]
- ARMS RACE V CONTROL, by Chester I Barnard, 1949 Nov p 11
- ARMS THE LIMITATION OF STRATEGIC, by G W Rathjens and G B Kistiakowsky, 1970 Jan p 19 [654]
- ARMSTRONG THE LATE EDWIN H, by Lawrence P Lessing, 1954 Apr p 64
- ARMY ANT THE, by T C Schneirla and Gerard Piel, 1948 June p 16
- ARMY ANTS THE SOCIAL BEHAVIOR OF, by Howard R Topoff, 1972 Nov p 70 [550]
- AROMATIC COMPOUNDS IN NATURE, POLYCYCLIC,
 by Max Blumer, 1076 Max 9, 24
- by Max Blumer, 1976 Mar p 34
 AROMATIC MOLECULES THE NATURE OF, by
 Ronald Breslow, 1972 Aug p 32
- AROUSAL CONFLICTAND, by Daniel E Berlyne, 1966 Aug p 82 [500]
- ARRESTED VISION, by Austin H Riesen, 1950 July p 16 [408]
- ARRIVAL OF ACETYLENE THE, by Herbert Yahraes, 1949 Jan p 16
- ARRIVAL OF NUCLEAR POWER THE, by John F Hogerton, 1968 Feb p 21
- ARROW OF TIME, THE, by David Layzer, 1975 Dec p 56
- ARROYOS, by Sheldon Judson, 1952 Dec p 71
 ART ARCHAEOLOGY AND THE EARLIEST, by
 Hallam I. Moyeus Ir. 1953 Aug. p. 30
- Hallam L Movius, Jr., 1953 Aug p 30
 ART IN THE ALPS PREHISTORIC, by Emmanuel
 Anati, 1960 Jan p 52
- ART MUSEUM SCIENCE IN THE, by Rutherford J Gettens, 1952 July p 22
- ART SCHIZOPHRENIC A CASE STUDY, by Bruno Bettelheim, 1952 Apr p 30
- ART THE EVOLUTION OF PALEOLITHIC, by Andre Leroi Gourhan, 1968 Feb p 58
- ARTEMIS AT BRAURON THE SANCTUARY OF, by John Papadimitriou, 1963 June p 110
- ARTIFICIAL HEART INSIDE THE BODY AN, by Willem J Kolff, 1965 Nov p 38 [1023]
- ARTIFICIAL INTELLIGENCE, by Marvin L Minsky, 1966 Sept p 246 [313]
- ARTIFICIAL INTERNAL ORGANS, by Peter F Salisbury, 1954 Aug p 24
- ARTIFICIAL KIDNEY THE, by John P Merrill, 1961 July p 56
- ARTIFICIAL LIVING PLANTS, by Edward F Moore, 1956 Oct p 118
- ARTIFICIAL MATRIXES ENZYMES BOUND TO, by Klaus Mosbach, 1971 Mar p 26 [1216]
- ARTIFICIAL MUSCLE, by Teru Hayashı and George A W Boehm, 1952 Dec p 18
- ARTIFICIAL PLASMA CLOUDS IN SPACE, by Gerhard Haerendel and Reimar Lust, 1968 Nov p 80
- ARTIFICIAL RESPIRATION, by Stefan Jellinek, 1951
 July p 18
- ARTIFICIAL SATELLITE AS A RESEARCH INSTRUMENT THE, by James A Van Allen, 1956 Nov p 41
- ARTIFICAL SATELLITES AND THE EARTH S
 ATMOSPHERE, by Robert Jastrow, 1959 Aug
 p 37 [851]
- ARTIFICAL SATELLITES AND THE THEORY OF RELATIVITY, by V L Ginzburg, 1959 May p 149
- ASPHYXIA AT BIRTH BRAIN DAMAGE BY, by William F Windle, 1969 Oct p 76 [1158] ASPIRATIONS A STUDY OF, by Hadley Cantril, 1963 Feb p 41
- ASPIRIN, by H O J Colher, 1963 Nov p 96 [169]
- ASSEMBLY COMPUTER-CONTROLLED, by James L Nevins and Daniel E Whitney, 1978 Feb p 62 [396]

- ASSESSMENT OF TECHNOLOGY THE, by Harvey
 Brooks and Raymond Bowers, 1970 Feb
 p 13 [332]
- ASSYRIAN TRADING OUTPOST AN, by Tahsın Özguc, 1963 Feb p 96
- ASTEROIDS THE NATURE OF, by Clark R. Chapman, 1975 Jan p 24
- ASTHMA, by William Kaufman, 1952 Aug p 28 ASTROBLEMES, by Robert S Dietz, 1961 Aug p 50 [801]
- ASTROLABE, THE, by J D North, 1974 Jan p 96
 ASTRONOMY, by Harlow Shapley, 1950 Sept
 p 24
- ASTRONOMY BALLOON, by Martin and Barbara Schwarzschild, 1959 May p 52
- ASTRONOMY BY BALLOON INFRARED, by John Strong, 1965 Jan p 28
- ASTRONOMY GAMMARAY, by William L Kraushaar and George W Clark, 1962 May p 52
- ASTRONOMY GREEK, by Giorgio de Santillana, 1949 Apr p 44
- ASTRONOMY INFRARED, by Bruce C Murray and James A Westphal, 1965 Aug p 20
- ASTRONOMY INTERCONTINENTAL RADIO, by K I Kellermann, 1972 Feb p 72
- ASTRONOMY NEUTRINO, by Philip Morrison, 1962 Aug p 90 [283]
- ASTRONOMY RADAR, by Von R Eshleman and Allen M Peterson, 1960 Aug p 30
- Astronomy radio, by Grote Reber, 1949 Sept p 34,
- ASTRONOMY ROCKET, by Herbert Friedman, 1959 June p 52
- ASTRONOMY ULTRAVIOLET, by Leo Goldberg, 1969 June p 92
- ASTRONOMY X RAY, by Herbert Friedman, 1964
 June p 36
- ASTROPHYSICS OF COSMIC RAYS THE, by V L Ginzburg, 1969 Feb p 50
- ASTROPHYSICS ROTATION IN HIGH ENERGY, by Franco Pacini and Martin J Rees, 1973 Feb p. 98
- ASYMMETRY OF THE HUMAN BRAIN THE, by Doreen Kimura, 1973 Mar p 70 [554] ATHABASKA TAR SANDS THE, by Karl A Clark,
- 1949 May p 52 ATHEROSCLEROSIS, by David M Spain, 1966 Aug p 48
- ATHEROSCLEROSIS THE ORIGIN OF, by Earl P Benditt, 1977 Feb p 74 [1351]
- ATKA THE VOYAGE OF THE, by Paul A Humphrey, 1955 Sept p 50
- ATLANTIC RIFT THE FLOOR OF THE MID., by J R
 Heirtzler and W B Bryan, 1975 Aug p 78
 [918]
- ATLANTIC THE ANATOMY OF THE, by Henry
 Stommel 1955 Jan p 30 [810]
- ATMOSPHERE AND BEYOND NEUTRINOS FROM THE, by Frederick Reines and J P F Sellschop, 1966 Feb p 40
- ATMOSPHERE AND OCEANS THE STEADY STATE OF THE EARTH'S CRUST, by Raymond Siever, 1974 June p 72 [914]
- ATMOSPHERE AND THE OCEAN THE, by R W Stewart, 1969 Sept p 76
- ATMOSPHERE ARTIFICIAL SATELLITES AND THE EARTH S, by Robert Jastrow, 1959 Aug p 37 [851]
- ATMOSPHERE, LEE WAVES IN THE, by R S Scorer, 1961 Mar p 124
- ATMOSPHERE OF MARS THE, by Conway B Leovy, 1977 July p 34 [369]
 ATMOSPHERE OF THE SUN HOT SPOTS IN THE, by
- Harold Zitin, 1958 Aug p 34 Atmosphere, the antarctic and the upper, by
- Sir Charles Wright, 1962 Sept p 74 [858]

- ATMOSPHERE, THE CIRCULATION OF THE, by Harry Wexler, 1955 Sept p 114
- ATMOSPHERE, THE CIRCULATION OF THE SUNS, by Victor P Starr and Peter A. Gilman, 1968 Jan p. 100
- ATMOSPHERE THE CIRCULATION OF THE UPPER, by Reginald E. Newell, 1964 Mar p 62
- ATMOSPHERE, THE EARTH IN THE SUN S, by Sydney Chapman, 1959 Oct p 64
- ATMOSPHERE, THE GENERAL CIRCULATION OF THE, by Victor P Starr, 1956 Dec p 40
- ATMOSPHERE, THE ORIGIN OF THE, by Helmut E Landsberg, 1953 Aug p 82 [824]
- ATMOSPHERE, THE UPPER, by David I Blumenstock, 1949 Jan p 30
- ATMOSPHERE, TIDES IN THE, by Sydney Chapman, 1954 May p 36
- ATMOSPHERES OF MARS AND VENUS THE, by Von R. Eshleman, 1969 Mar p 78
- ATMOSPHERIC HALOS, by David K Lynch, 1978 Apr p 144 [3007]
- ATMOSPHERIC POLLUTANTS, THE GLOBAL CIRCULATION OF, by Reginald E Newell, 1971 Jan p 32 [894]
- ATMOSPHERIC TIDES, by S T Butler, 1962 Dec p 48
- ATOM BIRTH OF THE NUCLEAR, by E N da C Andrade, 1956 Nov p 93
- ATOM CHEMISTRY HOT, by Willard F Libby, 1950 Mar p 44
- ATOM, DEMOCRITUS ON THE, 1949 NOV p 48 ATOM THE MUONIUM, by Vernon W Hughes, 1966 Apr p 93
- ATOM THE ULTIMATE, by H C Corben and S DeBenedetti, 1954 Dec p 88
- ATOMIC BOMB AN ABSOLUTE WEAPON? IS THE, by P
 M S Blackett, 1949 Mar p 13
- ATOMIC BOMB BLAST WAVES, by Everett F Cox, 1953 Apr p 94
- ATOMIC CLOCKS, by Harold Lyons, 1957 Feb p 71 [225]
- ATOMIC ENERGY ACT OF 1954 THE, by David F Cavers, 1954 Nov p 31
- ATOMIC ENERGY COMMISSION THE, by Leon Svirsky, 1949 July p 30
- ATOMIC MICROSCOPE, 1951 July p 56
 ATOMIC NUCLEI THE SIZE AND SHAPE OF, by
- Michel Baranger and Raymond A Sorensen, 1969 Aug p 58
- ATOMIC NUCLEUS THE, by R. E. Peierls, 1959 Jan p 75
- ATOMIC NUCLEUS THE, by Robert Hofstadter, 1956 July p 55 [217]
- ATOMIC PILE CHEMISRY, by John F Flagg and Edwin L Zebroski, 1952 July p 62
 ATOMIC POWER IN BRITAIN, by Sir Christopher
- Hinton, 1958 Mar 29
 ATOMIC POWER, THE ECONOMICS OF, by Sam H
- Schutt, 1951 Jan 32
 ATOMS EARLY VIEWS ON FORCES BETWEEN, by
- Leslie Holliday, 1970 May p 116

 ATOMS EXOTIC, by Clyde E. Wiegand, 1972 Nov
 p 102
- ATOMS MESONIC, by Sergio DeBenedetti, 1956 Oct p 93 [207]
- ATOMS VISUALIZED, by Erwin W Muller, 1957
 June p 113
- ATP, by Paul K Stumpf, 1953 Apr p 85 ATP HOW CELLS MAKE, by Peter C Hinkle and
- RICHARD ELLS MAKE, By Peter C. Hinkle and Richard E. McCarty, 1978 Mar p 104 [1383] ATTENTION AND THE PERCEPTION OF SPEECH, by Donald E. Broadbent, 1962 Apr. p 143 [467]
- ATTITUDE AND PUPIL SIZE, by Eckhard H Hess, 1965 Apr p 46 [493]
- ATTITUDES A STUDY OF, by Samuel A Stouffer, 1949 May p 11

- ATTITUDES, TEENAGE, by H H Remmers and D H Radler, 1958 June p 25
- ATTITUDES TOWARD DESEGREGATION, by Herbert H Hyman and Paul B Sheatsley, 1956 Dec p 35, 1964 July p 16 [623]
- ATTITUDES TOWARD RACIAL INTEGRATION, by Andrew M. Greeley and Paul B. Sheatsley, 1971 Dec. p. 13 [673]
- ATTITUDES TOWARD RACIAL INTEGRATION, by D Garth Taylor, Paul B Sheatsley and Andrew M Greeley, 1978 June p 42 [707]
- ATTRACTANT RECEPTOR OF MOTHS THE SEX, by Dietrich Schneider, 1974 July p 36 [1299]
- ATTRACTANTS INSECT, by Martin Jacobson and Morton Beroza, 1964 Aug p 20 [189]
- AUDITORY BEATS IN THE BRAIN, by Gerald Oster, 1973 Oct p 94 [1282]
- AUDITORY ILLUSIONS AND CONFUSIONS, by Richard M and Roslyn P Warren, 1970 Dec p 30 [531]
- AUDITORY LOCALIZATION, by Mark R. Rosenzweig, 1961 Oct p 132 [501]
- AUDUBON ANIMALS BY, 1952 Jan p 64
 AUREOMYCIN, by Leo and Dora S Rane, 1949
- Apr p 18
 AURORA AND AIRGLOW, by C T Elvey and
- Franklin E Roach, 1955 Sept p 140 AURORA, THE, by Syun-Ichi Akasofu, 1965 Dec p 54
- AUSTRALIA. THE SAND WASPS OF, by Howard E Evans and Robert W Matthews, 1975 Dec p 108
- AUSTRALIAN ABORIGINE, THE PREHISTORY OF THE, by D J Mulvaney, 1966 Mar p 84 [628]
- AUTOBIOGRAPHIES OF CELLS, by Renato Baserga and Walter E. Kisieleski, 1963 Aug. p. 103 [165]
- AUTOMATIC ANALYSIS OF BLOOD CELLS, by Marylou Ingram and Kendall Preston, Jr, 1970 Nov p 72
- AUTOMATIC CHEMICAL PLANT AN, by Eugene Ayres, 1952 Sept p 82
- AUTOMATIC CONTROL, 1952 Sept ussue AUTOMATIC CONTROL, by Ernest Nagel, 1952 Sept p 44
- AUTOMATIC MACHINE TOOL, AN, by William Pease, 1952 Sept p 101
- automatic manufacture of electronic equipment, by Lawrence P Lessing, 1955 Aug p 29
- AUTOMATIC NERVOUS SYSTEM LEARNING IN THE, by Leon V DiCara, 1970 Jan. p 30 [525] AUTOMATIC SYNTHESIS OF PROTIENS THE, by R. B
- Merrifield, 1968 Mar p 56 [320]

 AUTOMOBILE ENGINE, THE ORIGIN OF THE, by
- Lynwood Bryant, 1967 Mar p 102 AUTOMOBILE RACE OF 1895 THE GREAT, by Jacques
- Ickx, 1972 May p 102 AUTOMOBILE, THE ELECTRIC, by George A
- Hoffman, 1966 Oct p 34
 AUTOMOBILES THE CRASHWORTHINESS OF, by
 Patrick M. Miller, 1973 Feb. p. 78
- Patrick M Miller, 1973 Feb p 78
 Automobiles the fuel consumption of, by
- John R. Pierce, 1975 Jan p 34 AUTUMN COLORS, by Kenneth V Thimann, 1950
- Oct p 40

 AVALANCHES SNOW, by Montgomery M
- Atwater, 1954 Jan p 26
- AVALANCHES THE CONTROL OF SNOW, by Edward R. LaChapelle, 1966 Feb p 92 AVIATION MEDICINE, FATHER OF, by J M D
- Olmsted, 1952 Jan p 66 AXON THE NERVE, by Peter F Baker, 1966 Mar
- p 74 [1038]

E

- BABBAGE, THE STRANGE LIFE OF CHARLES, by Philip and Emily Mottison, 1952 Apr p 66 BABIES THE PREVENTION OF RHESUS, by C A Clarke, 1968 Nov p 46 [1126]
- BABIES THE STRANGE CASE OF THE BLIND, by Theodore H Ingalls, 1955 Dec p 40
- BABOONS THE SOCIAL LIFE OF, by S. L. Washburn and Irven DeVore, 1961 June p. 62 [614]
- BACTERIA PURPLE, by Roderick K. Clayton and Max Delbruck, 1951 Nov p 68
- BACTERIA SEXUALITY IN, by Elie L. Wollman and François Jacob, 1956 July p. 109 [50] BACTERIA STICK HOW, by J. W. Costeron, G. G.
- BACTERIA STICK HOW, by J W Costeron, G G Geesey and K.-J Cheng, 1978 Jan p 86 [1379]
- BACTERIA SWIM HOW, by Howard C Berg, 1975 Aug p 36
- BACTERIA THE PURPLE MEMBRANE OF SALT LOVING, by Walther Stoeckenius, 1976 June p 38 [1340]
- BACTERIA THE RECOGNITION OF DNA IN, by Salvador E Luria, 1970 Jan p 88 [1167]
- BACTERIA THE SENSING OF CHEMICALS BY, by Julius Adler, 1976 Apr p 40 [1337]
- BACTERIA TRANSDUCTION IN, by Norton D Zinder, 1958 Nov p 38 [106]
- BACTERIA TRANSFORMED, by Rollin D
 Hotchkiss and Esther Weiss, 1956 Nov p 48
 1181
- BACTERIA WITH BLOOD CELLS V, by W Barry Wood, Jr, 1951 Feb p 48 [51]
- BACTERIAL CELL WALL, THE, by Nathan Sharon, 1969 May p 92
- BACTERIAL CHROMOSOME, THE, by John Cairns, 1966 Jan p 36 [1030]
- BACTERIAL ENDOTOXINS, by A I Braude, 1964
- Mar p 36
 BACTERIAL VIRUS BUILDING A, by William B
- Wood and R. S. Edgar, 1967 July p. 60 [1079]
 BACTERIAL VIRUS THE GENETICS OF A, by R. S.
 Edgar and R. H. Epstein, 1965 Feb. p. 70
 [1004]
- BACTERIAL VIRUS THE RECEPTOR SITE FOR A, by Richard Losick and Philips W Robbins, 1969 Nov p 120 [1161]
- BACTERIAL VIRUSES AND SEX, by Max and Mary Bruce Delbruck, 1948 Nov p 46
- BACTERIAL VIRUSES THE MULTIPLICATION OF, by Gunther S Stent, 1953 May p 36
- BALL LIGHTNING, by Harold W Lewis, 1963 Mar p 106 BALLISTIC MISSILE SYSTEMS ANTI, by Richard L
- Garwin and Hans A Bethe, 1968 Mar p 21
 BALLISTOCARDIOGRAPHY, by H W Lewis, 1958
 Feb p 89
- BALLOON ASTRONOMY, by Martin and Barbara Schwartzschild, 1959 May p 52
- BALLOON INFRARED ASTRONOMY BY, by John Strong, 1965 Jan p 28
- BALSAM AND BIRCH SPRUCE, by Donald Culross Peattle, 1948 Nov p 20
- BANTU LANGUAGE, THE SPREAD OF THE, by D W Phillipson, 1977 Apr p 106 [694]
- BARBITURATES, by Elijah Adams, 1958 Jan p 60 [1081]
- BARRIERS IN THE BRAIN, by Robert B Aird, 1956 Feb p 101
- BAT "RADAR, MORE ABOUT, by Donald R Griffin, 1958 July p 40 [1121]
- BATAVIA ACCELERATOR THE, by R R Wilson, 1974 Feb p 72
- BATHYSCAPH THE, by Robert S Dietz, Russell V Lewis and Andreas B Rechnitzer, 1958 Apr p 27

- BATS, by William A. Wimsatt, 1957 Nov. p. 105. BATS, THE NAVIGATION OF, by Donald R. Griffin, 1950 Aug. p. 52.
- BATTERY, THE SOLAR, by Gordon Raisbeck, 1955 Dec. p. 102.
- BATTLE OF SALAMIS, HOW THEMISTOCLES PLANNED THE, by Michael H. Jameson, 1961 Mar. p. 111.
- BEACHES, by Willard Bascom, 1960 Aug. p. 80. [845]
- BEADLE, PAULING AND, by George W. Gray, 1949 May p. 16.
- BEAM, MICROCIRCUITS BY ELECTRON, by A. N. Broers and M. Hatzakis, 1972 Nov. p. 34.
- BEAMS, EXPERIMENTS WITH NEUTRINO, by Barry C. Barish, 1973 Aug. p. 30.
- BEAMS, MOLECULAR, by O. R. Frisch, 1965 May p. 58.
- BEAR. THE CAVE, by Bjorn Kurten, 1972 Mar. p. 60.
- BEARING, THE JOURNAL, by John C. Bierlein, 1975 July p. 50.
- BEARINGS, by E. A. Muyderman, 1966 Mar. p. 60.
- BEARINGS AND GEARS, LEONARDO ON, by Ladislao Reti, 1971 Feb. p. 100.
- BEARS, THE MIGRATION OF POLAR, by Vagn Flyger and Marjorie R. Townsend, 1968 Feb. p. 108. [1102]
- BEATS IN THE BRAIN, AUDITORY, by Gerald Oster, 1973 Oct. p. 94. [1282]
- BEE LANGUAGE, THE EVOLUTION OF, by Harald Esch, 1967 Apr. p. 96. [1071]
- BEEHIVE, ENVIRONMENTAL CONTROL IN THE, by Roger A. Morse, 1972 Apr. p. 92. [1247]
- BEER, by Anthony H. Rose, 1959 June p. 90.
 BEES, DIALECTS IN THE LANGUAGE OF THE, by Karl
 von Frisch, 1962 Aug. p. 78. [130]
- BEES, MORE ON THE LANGUAGE OF, by Hans Katmus, 1953 July p. 60.
- BEES, THE LANGUAGE OF THE, by August Krogh, 1948 Aug. p. 18.
- BEETLES, THE SOCIAL BEHAVIOR OF BURYING, by Lorus J. Milne and Margery Milne, 1976 Aug. p. 84. [1344]
- BEGINNINGS OF COAL, THE, by Raymond E. Janssen, 1948 July p. 46.
- BEGINNINGS OF WHEELED TRANSPORT. THE, by Stuart Piggott, 1968 July p. 82.
- BEHAVIOR, ELECTRICALLY CONTROLLED, by Erich von Holst and Ursula von Saint Paul, 1962 Mar. p. 50. [464]
- BEHAVIOR, FOSSIL, by Adolf Seilacher, 1967 Aug. p. 72. [872]
- BEHAVIOR GENETIC DISSECTION OF, by Seymour Benzer, 1973 Dec. p. 24. [1285]
- BEHAVIOR, HOW OPIATES CHANGE, by John R. Nichols, 1965 Feb. p. 80.
- BEHAVIOR IN CHIMPANZEES, ARITHMETIC, by Charles B. Ferster, 1964 May p. 98. [484]
- BEHAVIOR IN GULLS, THE EVOLUTION OF, by N. Tinbergen, 1960 Dec. p. 118. [456]
- BEHAVIOR, NERVE CELLS AND, by Eric R. Kandel, 1970 July p. 57. [1182]
- BEHAVIOR OF ANIMALS, THE FIGHTING, by Irenaus Eibl-Eibesfeldt, 1961 Dec. p. 112. [470]
- BEHAVIOR OF ARMY ANTS. THE SOCIAL, by Howard R. Topoff, 1972 Nov. p. 70. [550]
- BEHAVIOR OF BURYING BEETLES, THE SOCIAL, by Lorus J. Milne and Margery Milne, 1976 Aug. p. 84. [1344]
- BEHAVIOR OF LOVEBIRDS, THE, by William C. Dilger, 1962 Jan. p. 88.
- BEHAVIOR OF MOSQUITOES, THE FEEDING, by Jack Colvard Jones, 1978 June p. 138. [1392] BEHAVIOR OF PRAIRIE DOGS, THE SOCIAL, by John A. King, 1959 Oct. p. 128.

- BEHAVIOR OF PROTOHUMAN HOMINIDS. THE FOOD-SHARING, by Glynn Isaac, 1978 Apr. p. 90. [706]
- BEHAVIOR OF RING DOVES, THE REPRODUCTIVE, by Daniel S. Lehrman, 1964 Nov. p. 48, [488] BEHAVIOR OF SHARKS, THE, by Perty W. Gilbert,
- BEHAVIOR OF THE STICKLEBACK, THE CURIOUS, by N. Tinbergen, 1952 Dec. p. 22. [414]

1962 July p. 60. [127]

- BEHAVIOR. STONE TOOLS AND HUMAN, by Lewis R. and Sally R. Binford, 1969 Apr. p. 70, [643]
- BEHAVIOR. STRESS AND, by Seymour Levine, 1971 Jan. p. 26. [532]
- BEHAVIOR. THE EVOLUTION OF, by Konrad Z. Lorenz, 1958 Dec. p. 67. [412]
- BEHAVIOR, THE NEURAL BASIS OF VISUALLY
 GUIDED, by Jorg-Peter Ewert, 1974 Mar. p. 34.
 [1293]
- BEHAVIORAL PSYCHOTHERAPY, by Albert Bandura, 1967 Mar. p. 78. [505]
- BEHAVIORAL SCIENCE AND CRIMINAL LAW, by Edward J. Sachar, 1963 Nov. p. 39. [480]
- BENEFICIATION OF IRON ORES, THE, by M. M. Fine, 1968 Jan. p. 28.
- BERING STRAIT LAND BRIDGE, THE, by William G. Haag, 1962 Jan. p. 112.
- BERYLLIUM AND BERYLLIOSIS, by Jack Schubert, 1958 Aug. p. 27.
- BEVATRON, THE, by Lloyd Smith, 1951 Feb. p. 20. BICYCLE TECHNOLOGY, by S. S. Wilson, 1973 Mar. p. 81.
- BIG SCHMIDT, THE, by Albert G. Wilson, 1950 Dec. p. 34.
- BILINGUALISM AND INFORMATION PROCESSING, by P. A. Kolers, 1968 Mar. p. 78.
- BINARY CODE, ORIGINS OF THE, by F. G. Heath, 1972 Aug. p. 76.
- BINGHAM PLAN, THE, by Leonard Engel, 1948 Oct. p. 7.
- BINOCULAR PERCEPTION, THE RESOURCES OF, by John Ross, 1976 Mar. p. 80. [569]
- BINOCULAR VISION, THE NEUROPHYSIOLOGY OF, by John D. Pettigrew, 1972 Aug. p. 84. [1255]
- BIOCHEMICAL REACTIONS. THE CONTROL OF, by Jean-Pierre Changeux, 1965 Apr. p. 36. [1008] BIOCHEMISTRY, by Otto Meyerhof, 1950 Sept. p. 62.
- BIOCHEMISTRY OF ANXIETY, THE, by Ferris N. Pitts, Jr., 1969 Feb. p. 69. [521]
- BIOCHEMISTRY OF COPPER, THE, by Earl Frieden, 1968 May p. 102.
- BIOCRYSTALS, by Shinya Inoue and Kayo Okazaki, 1977 Apr. p. 82. [1357]
- BIOLOGICAL CLOCK OF INSECTS. THE, by D. S. Saunders, 1976 Feb. p. 114. [1335]
- BIOLOGICAL CLOCKS AND THE FIDDLER CRAB, by
- Frank A. Brown, Jr., 1954 Apr. p. 34.
 BIOLOGICAL CLOCKS, ANNUAL, by Eric T.
 Pengelley and Sally J. Asmundson, 1971 Apr.
- p. 72. [1219] BIOLOGICAL CLOCKS OF THE TIDAL ZONE, by John
- D. Palmer, 1975 Feb. p. 70. [1316] BIOLOGICAL CONTROL. OF DUNG, THE, by D. F.
- Waterhouse, 1974 Apr. p. 100. BIOLOGICAL CONTROL, PROTEIN SHAPE AND, by Daniel E. Koshland, Jr., 1973 Oct. p. 52.
- [1280]
 BIOLOGICAL DIVERSITY, THE CAUSES OF, by Bryan
- Clarke, 1975 Aug. p. 50. [1326] BIOLOGICAL FORM, HYDRA AS A MODEL FOR THE DEVELOPMENT OF, by Alfred Gierer, 1974 Dec.
- p. 44. [1309]
 BIOLOGICAL INDIVIDUALITY, MARKERS OF, by
 Ralph A. Reisfeld and Barry D. Kahan, 1972
 June p. 28. [1251]

- BIOLOGICAL LUMINESCENCE, by William D. McElroy and Howard H. Seliger, 1962 Dec. p. 76. [141]
- BIOLOGICAL NITROGEN FIXATION, by Winston J. Brill, 1977 Mar. p. 68, [922]
- BIOLOGICAL OXIDATION, by David E. Green, 1958 July p. 56.
- BIOLOGICAL REGENERATION AND PATTERN FORMATION, by Peter J. Bryant, Susan V. Bryant and Vernon French, 1977 July p. 66. [1363]
- BIOLOGICAL SCIENCES, MATHEMATICS IN THE, by Edward F. Moore, 1964 Sept. p. 148.
- BIOLOGICAL SYSTEMS, FREE RADICALS IN, by William A. Pryor, 1970 Aug. p. 70. [335]
- BIOLOGICAL TRANSDUCERS, by Werner R. Loewenstein, 1960 Aug. p. 98. [70] BIOLOGICAL WEAPONS, CHEMICAL AND, by
- Matthew S. Meselson, 1970 May p. 15. BIOLOGY, GENEVA: by C. A. Mawson, 1955 Oct. p. 38.
- BIOLOGY, INNOVATION IN, by George Wald, 1958 Sept. p. 100. [48]
- BIOLOGY OF HEAVY WATER, THE, by Joseph J. Katz, 1960 July p. 106.
- BIOLOGY OF OLD AGE, THE, by Florence Moog, 1948 June p. 40.
- 1948 June p. 40. BIOLOGY OF THE NEGRO, THE, by Curt Stern, 1954
- Oct. p. 80. BIOSPHERE, HUMAN ENERGY PRODUCTION AS A PROCESS IN THE, by S. Fred Singer, 1970 Sept
- p. 174. [1197] BIOSPHERE, HUMAN FOOD PRODUCTION AS A PROCESS IN THE, by Lester R. Brown, 1970
- PROCESS IN THE, by Lester R. Brown, 1970 Sept. p. 160. [1196] BIOSPHERE, HUMAN MATERIALS PRODUCTION AS A
- PROCESS IN THE, by Harrison Brown, 1970 Sept. p. 194. [1198]
- BIOSPHERE THE, 1970 Sept. issue. BIOSPHERE THE, by G. Evelyn Hutchinson, 1970
- Sept. p. 44. [1188] BIOSPHERE, THE ENERGY CYCLE OF THE, by George M. Woodwell, 1970 Sept. p. 64. [1190]
- BIOSPHERE, THE FLOW OF ENERGY IN THE, by David M. Gates, 1971 Sept. p. 88. [664] BIOTIN, by John D. Woodward, 1961 June p. 139.
- BIRCH, SPRUCE, BALSAM AND, by Donald Culross Peattie, 1948 Nov. p. 20.
- BIRD AERODYNAMICS, by John H. Storer, 1952 Apr. p. 24. BIRD FLIGHT, THE ENERGETICS OF, by Vance A.
- Tucker, 1969 May p. 70. [1141] BIRD SONAR, by Donald R. Griffin, 1954 Mar.
- p. 78.
 BIRD, THE STELLAR-ORIENTATION SYSTEM OF A
- MIGRATORY, by Stephen T. Emlen, 1975 Aug. p. 102. [1327]
- BIRDS, A STUDY IN THE EVOLUTION OF, by H. N. Southern, 1957 May p. 124.
- BIRDS AS FLYING MACHINES, by Carl Welty, 1955 Mar. p. 88. BIRDS, BOWER, by A. J. Marshall, 1956 June
- p. 48.
 BIRDS BREATHE, HOW, by Knut Schmidt-Nielsen,
- 1971 Dec. p. 72. [1238] BIRDS, CELESTIAL NAVIGATION BY, by E. G. F.
- Sauer, 1958 Aug. p. 42. [133] BIRDS, DUET-SINGING, by W. H. Thorpe, 1973
- Aug. p. 70. [1279] BIRDS, INCUBATOR, by H. J. Frith, 1959 Aug. p. 52.
- BIRDS, MIMICRY IN PARASITIC, by Jürgen Nicolai, 1974 Oct. p. 92.
- BIRDS, PESTICIDES AND THE REPRODUCTION OF, by David B. Peakall, 1970 Apr. p. 72. [1174]

- BIRDS SING, HOW, by Crawford H. Greenewalt, 1969 Nov. p. 126. [1162]
- BIRDS, SOARING FLIGHT OF, by Clarence D. Cone, Jr., 1962 Apr. p. 130.
- BIRDS, THE BRAIN OF, by Laurence Jay Stettner and Kenneth A. Matyniak, 1968 June p. 64. [515]
- BIRDS, THE GEOGRAPHY OF, by Carl Welty, 1957 July p. 118.
- BIRDS, THE LANGUAGE OF, by W. H. Thorpe, 1956 Oct. p. 128. [145]
- BIRDS, THE NAVIGATION OF, by Donald R. Griffin, 1948 Dec. p. 18.
- BIRTH, BRAIN DAMAGE BY ASPHYXIA AT, by William F. Windle, 1969 Oct. p. 76. [1158] BIRTH OF MASSIVE STARS, THE, by Michael Zeilik, 1978 Apr. p. 110. [3005]
- BIRTH OF STARS, THE, by Bart J. Bok, 1972 Aug. p. 48.
- BIRTH OF THE NUCLEAR ATOM, THE, by E. N. da C. Andrade, 1956 Nov. p. 93.
- BISON KILL, A PALEO-INDIAN, by Joe Ben Wheat, 1967 Jan. p. 44.
- BL LACERTAE OBJECTS, by Michael J. Disney and Philippe Véron, 1977 Aug. p. 32. [372]
- BLACK DEATH, THE, by William L. Langer, 1964 Feb. p. 114. [619]
- BLACK HOLES, by Roger Penrose, 1972 May p. 38.
- BLACK HOLES, THE QUANTUM MECHANICS OF, by S. W. Hawking, 1977 Jan. p. 34. [349]
- BLACK HOLES, THE SEARCH FOR, by Kip S. Thorne, 1974 Dec. p. 32.
- BLACK SEA WAS DRAINED, WHEN THE, by Kenneth J. Hsü, 1978 May p. 52. [932]
- BLACKETT, A U.S. PHYSICIST'S REPLY TO PROFESSOR, by Louis N. Ridenour, 1949 Mar. p. 16. BLAST WAVES, ATOMIC BOMB, by Everett F. Cox,
- 1953 Apr. p. 94.
- BLIGH AND THE BREADFRUIT, CAPTAIN, by Richard A. Howard, 1953 Mar. p. 88.
- BLIGHT OF POTATOES, THE LATE, by John S. Niederhauser and William C. Cobb, 1959 May p. 100. [109]
- BLIND BABIES, THE STRANGE CASE OF THE, by Theodore H. Ingalls, 1955 Dec. p. 40.
- BLINDNESS, COLOR, by Alphonse Chapanis, 1951
 Mar. p. 48.
 BLINDNESS NIGHT by John F. Dowling, 1966
- BLINDNESS, NIGHT, by John E. Dowling, 1966 Oct. p. 78. [1053]
- BLINDNESS VISUAL PIGMENTS AND COLOR, by W. A. H. Rushton, 1975 Mar. p. 64. [1317]
 BLISTER HYPOTHESIS. THE, by C. W. Wolfe, 1949
- June p. 16.

 BLOOD, by Douglas M. Surgenor, 1954 Feb.
- p. 54.

 BLOOD CELL, THE RED, by Eric Ponder, 1957 Jan.
- BLOOD CELLS, AUTOMATIC ANALYSIS OF, by Marylou Ingram and Kendall Preston, Jr., 1970 Nov. p. 72.
- BLOOD CELLS V. BACTERIA, WHITE, by W. Barry Wood, Jr., 1951 Feb. p. 48. [51]
- BLOOD CLOTS, THE CONTROL OF, by Shepard Shapiro, 1951 Mar. p. 18.
- BLOOD GROUPS, PARENTAGE AND, by Alexander S.
 Wiener, 1954 July p. 78.
- BLOOD PIGMENTS, by H. Munro Fox, 1950 Mar. p. 20.
- BLOOD PLATELETS, by Majorie B. Zucker, 1961 Feb. p. 58.
- BLOOD PRESSURE, HIGH, by Irvine H. Page, 1948 Aug. p. 44.
- BLOOD RELATIONSHIPS OF ANIMALS, THE, by Alan A. Boyden, 1951 July p. 59.
- BLOOD, THE MICROCIRCULATION OF THE, by Benjamin W. Zweifach, 1959 Jan. p. 54.

- BLOOD-VESSEL SURGERY, by Michael E. DeBakey and Leonard Engel, 1961 Apr. p. 88.
- BLUE-GREEN ALGAE, THE, by Patrick Echlin, 1966 June p. 74.
- BLUE-GREEN ALGAE, THE GAS VACUOLES OF, by A. E. Walsby, 1977 Aug. p. 90. [1367]
- BLUE WHALE, THE, by Johan T. Ruud, 1956 Dec. p. 46.
- BODY, ELASTIC FIBERS IN THE, by Russell Ross and Paul Bornstein, 1971 June p. 44. [1225] BODY FAT, by Vincent P. Dole, 1959 Dec. p. 70.
- BODY PARTS, THE REGENERATION OF, by Marcus Singer, 1958 Oct. p. 79. BODY, THE EFFECTS OF LIGHT ON THE HUMAN, by
- Richard J. Wurtman, 1975 July p. 68. [1325] BODY WATER, by A. V. Wolf, 1958 Nov. p. 125. BOGS, by Edward S. Deevey, Jr., 1958 Oct. p. 114. [840]
- BOILING OF LIQUIDS, THE, by J. W. Westwater, 1954 June p. 64.
- BOK GLOBULES, by Robert L. Dickman, 1977 June p. 66. [366]
- BOMB AN ABSOLUTE WEAPON? IS THE ATOMIC, by P. M. S. Blackett, 1949 Mar. p. 13.
- BOMB BLAST WAVES, ATOMIC, by Everett F. Cox, 1953 Apr. p. 94.
- BOMB: IV. THE HYDROGEN, by Ralph E. Lapp, 1950 June p. 11.
- вомв техтя, 1949 Ост. р. 20.
- BOMB, THE DEBATE OVER THE HYDROGEN, by Herbert F. York, 1975 Oct. p. 106.
- BOMB, THE HYDROGEN, by Louis N. Ridenour, 1950 Mar. p. 11.
- BOMB: III, THE HYDROGEN, by Robert F. Bacher, 1950 May p. 11.
- 1950 May p. 11.
 BOMB: II, THE HYDROGEN, by Hans A. Bethe, 1950
 Apr. p. 18.
- BOMBER ATTACK, DEFENSE AGAINST, by Richard D. English and Dan I. Bolef, 1973 Aug. p. 11. BONE, by Franklin C. McLean, 1955 Feb. p. 84. BONE, ELECTRICAL EFFECTS IN, by C. Andrew L. Bassett, 1965 Oct. p. 18.
- BOOMERANGS, THE AERODYNAMICS OF, by Felix Hess, 1968 Nov. p. 124.
- BOREDOM, THE PATHOLOGY OF, by Woodburn Heron, 1957 Jan. p. 52. [430]
- BORON, by A. G. Massey, 1964 Jan. p. 88. BORON CRYSTALS, by D. B. Sullenger and C. H.
- L. Kennard, 1966 July p. 96,.
 BOUNDARY LAYER, THE, by Joseph J. Cornish III,
 1954 Aug. p. 72.
- "BOURBAKI, NICOLAS", by Paul R. Halmos, 1957 May p. 88.
- BOWED STRING, THE PHYSICS OF THE, by John C. Schelleng, 1974 Jan. p. 87.
- BOWER BIRDS, by A. J. Marshall, 1956 June p. 48. BOWERBIRDS, THE EVOLUTION OF, by E. Thomas Gilliard, 1963 Aug. p. 38. [1098]
- BOYLE ROBERT, by Marie Boas Hall, 1967 Aug. p. 96.
- BRAHE, TYCHO, THE CELESTIAL PALACE OF, by John Christianson, 1961 Feb. p. 118.
- BRAIN, AUDITORY BEATS IN THE, by Gerald Oster, 1973 Oct. p. 94. [1282]
- 1973 Oct. p. 94. [1282] BRAIN, BARRIERS IN THE, by Robert B. Aird, 1956
- Feb. p. 101.

 BRAIN CELLS IN MOLLUSKS, GIANT, by A. O. D.

 Willows, 1971 Feb. p. 68. [1212]
- BRAIN CHANGES IN RESPONSE TO EXPERIENCE, by Mark R. Rosenzweig, Edward L. Bennett and Marian Cleeves Diamond, 1972 Feb. p. 22. [541]
- BRAIN, CHEMICAL STIMULATION OF THE, by Alan E. Fisher, 1964 June p. 60. [485]
- BRAIN DAMAGE BY ASPHYXIA AT BIRTH, by William F. Windle, 1969 Oct. p. 76. [1158]

- BRAIN IN MAN, THE SPLIT, by Michael S. Gazzaniga, 1967 Aug. p. 24. [508]
- BRAIN, LANGUAGE AND THE, by Norman Geschwind, 1972 Apr. p. 76. [1246]
- BRAIN MECHANISMS IN MOVEMENT, by Edward V. Evarts, 1973 July p. 96. [1277]
- BRAIN NUTRITION AND THE, by John D. Fernstrom and Richard J. Wurtman, 1974 Feb. p. 84. [1291]
- BRAIN OF BIRDS, THE, by Laurence Jay Stettner and Kenneth A. Matyniak, 1968 June p. 64. [515]
- BRAIN OF HIBERNATORS, THE ADJUSTABLE, by N. Mrosovsky, 1968 Mar. p. 110.
- BRAIN, PATHWAYS IN THE, by Lennart Heimer, 1971 July p. 48. [1227]
- BRAIN, PLEASURE CENTERS IN THE, by James Olds, 1956 Oct. p. 105. [30]
- BRAIN, "SECOND MESSENGERS" IN THE, by James A. Nathanson and Paul Greengard, 1977 Aug. p. 108. [1368]
- BRAIN, SEX DIFFERENCES IN THE, by Seymour Levine, 1966 Apr. p. 84. [498]
- BRAIN, THE ASYMMETRY OF THE HUMAN, by Doreen Kimura, 1973 Mar. p. 70. [554]
- BRAIN, THE ELECTRICAL ACTIVITY OF THE, by W. Grey Walter, 1954 June p. 54.
- BRAIN, THE EYE AND THE, by R. W. Sperty, 1956 May p. 48. [1090]
- BRAIN, THE FUNCTIONAL ORGANIZATION OF THE,
- by A. R. Luria, 1970 Mar. p. 66. [526] BRAIN. THE SUPERIOR COLLICULUS OF THE, by Barbara Gordon, 1972 Dec. p. 72. [553]
- BRAIN, THE VISUAL CORTEX OF THE, by David H. Hubel, 1963 Nov. p. 54. [168]
- BRAIN, VISUAL CELLS IN THE PONS OF THE, by Mitchell Glickstein and Alan R. Gibson, 1976 Nov. p. 90. [573]
- BRAIN WAVES, CONDITIONING AND, by Vernon Rowland, 1959 Aug. p. 89.
- BRAIN WAVES, THE ANALYSIS OF, by Mary A. B. Brazier, 1962 June p. 142.
- BRAINS AND COCOONS, by William G. Van der Kloot, 1956 Apr. p. 131.
- BRAINS, THE CASTS OF FOSSIL HOMINID, by Ralph
- L. Holloway, 1974 July p. 106. [686] BRASSES, THE PHYSICS OF, by Arthur H. Benade, 1973 July p. 24.
- BRAUN AND THE CATHODE RAY TUBE, FERDINAND, by George Shiers, 1974 Mar. p. 92.
- BRAUN, FERDINAND, AND THE CATHODE RAY TUBE, by George Shiers, 1974 Mar. p. 92.
- BRAURON, THE SANCTUARY OF ARTEMIS AT, by John Papadimitriou, 1963 June p. 110.
- BRAZIL, THE DEVELOPMENT OF, by Celso Furtado, 1963 Sept. p. 208.
- BREADFRUIT, CAPTAIN BLIGH AND THE, by Richard A. Howard, 1953 Mar. p. 88. BREAKERS, CIRCUIT, by Werner Rieder, 1971 Jan.
- p. 76.
 BREAKUP OF PANGAEA, THE, by Robert S. Dietz
- and John C. Holden, 1970 Oct. p. 30. [892] BREATH, THE FIRST, by Clement A. Smith, 1963 Oct. p. 27.
- BREATHE, HOW BIRDS, by Knut Schmidt-Nielsen, 1971 Dec. p. 72. [1238]
- BREATHING, INSECT, by Carroll M. Williams, 1953 Feb. p. 28.
- BREATHING, THE MECHANISM OF, by Wallace O. Fenn, 1960 Jan. p. 138.
- BREEDER REACTOR, SUPERPHENIX: A FULL-SCALE, by Georges A. Vendryes, 1977 Mar. p. 26. [355]
- BREEDER REACTOR, THE, 1952 Dec. p. 58.
 BREEDER REACTORS, by Alvin M. Weinberg, 1960
 Jan. p. 82.

BREEDLR REACTORS A THIRD GENERATION OF, by T R Bump, 1967 May p 25

BRELDER REACTORS FAST, by Glenn T Seaborg and Justin L Bloom, 1970 Nov p 13 [339]

BRIDLPRICE OF THE SEBEI THE, by Walter Goldschmidt, 1973 July p 74

BRIDGES, by David B Steinman, 1954 Nov p 60

BRIGHTEST INFRARED SOURCES THE, by G Neugebauer and Eric E. Becklin, 1973 Apr p. 28

BRINES THE RED SEA HOT, by Egon T Degens and David A Ross, 1970 Apr p 32

BRITAIN A CELTIC FARMSTEAD IN SOUTHERN, by Geoffrey Wainwright, 1977 Dec p 156 [702] BRITAIN A FRONTIER POST IN ROMAN, by Robin

Birley, 1977 Feb p 38 [692]

BRITAIN ATOMIC POWER IN, by Sir Christopher Hinton, 1958 Mar p 29

BRITAIN COUNTERFEITING IN ROMAN, by George C Boon, 1974 Dec p 120

BROKEN ENGLISH, by H B G Casimir, 1956 Mar p 96

BROWNIAN MOTION AND POTENTIAL THEORY, by Reuben Hersh and Richard J Griego, 1969 Mar p 66

BRUEGEL THE ELDER AS A GUIDE TO 16TH CENTURY TECHNOLOGY PIETER, by H Arthur Klein, 1978 Mar p 134 [3003]

BRUNO GIORDANO, by Lawrence S Lerner and Edward A Gosselin, 1973 Apr p 86

BUBBLE CHAMBER, THE, by Donald A Glaser, 1955 Feb p 46 [214]

BUBBLES MAGNETIC, by Andrew H Bobeck and H E D Scovil, 1971 June p 78

BUBBLES SEPARATING SOLIDS WITH, by A M Gaudin, 1956 Dec p 99

BUBBLES THE GEOMETRY OF SOAP FILMS AND SOAP, by Frederick J Almgren, Jr, and Jean E Taylor, 1976 July p 82

BUFFALO THE WATER, by W Ross Cockrill, 1967 Dec p 118 [1088]

BUILDING A BACTERIAL VIRUS, by William B
Wood and R S Edgar, 1967 July p 60 [1079]
BUILDING PERFORMANCE CRITERIA IN, by James
R Wright, 1971 Mar p 16 [341]

BUILDINGS PNEUMATIC, by Murray Kamrass, 1956 June p 131

BUILDINGS THE WIND BRACING OF, by Carl W Condit, 1974 Feb p 92

BUMBLEBEE, THE ENERGETICS OF THE, by Bernd Heinrich, 1973 Apr p 96 [1270]

BUOYANCY OF MARINE ANIMALS THE, by Eric Denton, 1960 July p. 118

BURIAL MOUND IN LABRADOR AN ARCHAIC INDIAN, by James A Tuck and Robert J

McGhee, 1976 Nov p 122
BURYING BEETLES THE SOCIAL BEHAVIOR OF, by
Lorus J Milne and Margery Milne, 1976 Aug

Lorus J Milne and Margery Milne, 1976 Au p 84 [1344]

BUSINESS COMPUTERS IN, by Lawrence P Lessing, 1954 Jan p 21

BUSINESS THE MEDICAL, by James L Goddard, 1973 Sept p 161

BUTTERFLIES AND PLANTS, by Paul R Ehrlich and Peter H Raven, 1967 June p 104 [1076] BYZANTINE TRADING VENTURE, A, by George F Bass, 1971 Aug p 22

(

CABLE TELEVISION, by William T Knox, 1971
Oct p 22

CALCITONIN, by Howard Rasmussen and Maurice M Pechet, 1970 Oct p 42 [1200] CALCIUM AND LIFE, by L V Heilbrunn, 1951 June p 60

W McWhorter, 1976 Mar p 88

CALCUTTA A PREMATURE METROPOLIS, by Nirmal Kumar Bose, 1965 Sept p 90

CALEFACTION OF A RIVER THE, by Daniel Merriman, 1970 May p 42 [1177]

CAMEL THE PHYSIOLOGY OF THE, by Knut Schmidt-Nielsen, 1959 Dec p 140 [1096] CAMERA EYE AND, by George Wald, 1950 Aug p 32 [46]

CAN TIME GO BACKWARD? by Martin Gardner, 1967 Jan p 98

CANADIAN METEOR CRATER THE, by V B Meen, 1951 May p 64

CANALS IN AMERICA, by John S McNown, 1976 July p 116

CANARY LEARNING IN THE, by Nicholas Pastore, 1955 June p 72

CANCER AND ENVIRONMENT, by Groff Conklin, 1949 Jan p 11

CANCER BY VIRUSES THE INDUCTION OF, by Renato Dulbecco, 1967 Apr p 28 [1069] CANCER GENETICS AND, by Leonell C Strong, 1950 July p 44

CANCER, HERPES VIRUSES AND, by Keen A Rafferty, Jr., 1973 Oct. p. 26

CANCER IMMUNOLOGY, by Lloyd J Old, 1977 May p 62 [1358]

CANCER ON THE DEVELOPMENT OF, by Harry S N Greene, 1948 Dec p 40

CANCER, PLANT, by Armin C Braun, 1952 June p 66

CANCER PROBLEM THE, by John Cairns, 1975 Nov p 64 [1330]

CANCER THE GENETICS OF HUMAN, by Carlo M Croce and Hilary Koprowski, 1978 Feb p 117 [1381]

CANCER TISSUE CULTURE AND, by John J Biesele, 1956 Oct p 50

CANCER VIRUS A DEFECTIVE, by Harry Rubin, 1964 June p 46 [185]

CANYONS SUBMARINE, by Francis P Shepard, 1949 Apr p 40

CANYONS THE ORIGIN OF SUBMARINE, by Bruce C Heezen, 1956 Aug p 36

CAPITAL OF THE NABATAEANS THE, by Peter J Parr, 1963 Oct p 94

CAPTAIN BLIGH AND THE BREADFRUIT, by Richard A Howard, 1953 Mar p 88

CAPTIVITY REALLY WILD, ARE WILD ANIMALS IN, by H Hediger, 1954 May p 76

CAR THE HISTORY OF THE AIRFLOW, by Howard S Irwin, 1977 Aug p 98 [697]

CARBENES, by Maitland Jones, Jr., 1976 Feb p 101

CARBON CHEMISTRY OF THE MOON THE, by Geoffrey Eglinton, James R Maxwell and Colin T Pillinger, 1972 Oct p 80

CARBON CYCLE, THE, by Bert Bolin, 1970 Sept p 124 [1193]

CARBON DIOXIDE AND CLIMATE, by Gilbert N Plass, 1959 July p 41 [823]

CARBON DIOXIDE LASERS HIGH POWER, by C K
N Patel, 1968 Aug p 22

CARBON DIOXIDE QUESTION THE, by George M Woodwell, 1978 Jan p 34 [1376]

CARBON 14 AND THE PREHISTORY OF EUROPE, by Colin Renfrew, 1971 Oct p 63 [672]

CARBON HIGH ENERGY REACTIONS OF, by Richard M Lemmon and Wallace R. Erwin, 1975 Jan p 72

CARBON IN PHOTOSYNTHESIS THE PATH OF, by J A Bassham, 1962 June p 88 CARDIOGRAM WHALE, 1952 Oct p 68 CARGO CULTS, by Peter M Worsley, 1959 May p 117

CARGO-HANDLING, by Roger H Gilman, 1968 Oct p 80

CARNIVOROUS PLANTS, by Yolande Heslop-Harrison, 1978 Feb p 104 [1382]

CAROTENOIDS, by Sylvia Frank, 1956 Jan p 80 CARROLL, LEWIS MATHEMATICIAN, by Warren Weaver, 1956 Apr p 116

CARROLL'S LOST BOOK ON LOGIC, LEWIS, by W W Bartley III, 1972 July p 38

CARTHAGE ROMAN, by John H Humphrey and John Griffiths Pedley, 1978 Jan p 110 [704] CARTHAGINIAN FORTRESS IN SARDINIA, a, by Sabatino Moscati, 1975 Feb p 80

CASE OF THE MISSING SUNSPOTS THE, by John A Eddy, 1977 May p 80 [925]

CASTING OF STEEL, THE CONTINUOUS, by Leonard
V Gallagher and Bruce S Old, 1963 Dec
p 74

CASTINGS THE SOLIDIFICATION OF, by Merton C Flenungs, 1974 Dec p 88

CASTLES, NORMAN, by Brian Hope-Taylor, 1958 Mar p 42

CASTS OF FOSSIL HOMINID BRAINS THE, by Ralph L Holloway, 1974 July p 106 [686]

CATACLYSMIC EVOLUTION, by G Ledyard Stebbins, Jr., 1951 Apr p 54

CATALYSIS, by Vladimir Haensel and Robert L Burwell, Jr., 1971 Dec. p. 46

CATARACT WHAT HAPPENS TO THE HUMAN LENS IN, by Ruth van Heyningen, 1975 Dec p 70

cataracts, by Sidney Lerman, 1962 Mar p 106

CATASTROPHE THEORY, by E C Zeeman, 1976 Apr p 65

CATHEDRALS THE STRUCTURAL ANALYSIS OF GOTHIC, by Robert Mark, 1972 Nov p 90 CATHODE RAY TUBE, FERDINAND BRAUN AND THE,

by George Shiers, 1974 Mar p 92 CATS AND COMMERCE, by Neil B Todd, 1977

Nov p 100 [1370]

CATS WALK SPINAL, by P S Shurrager, 1950 Nov p 20

CATTLE, by Ralph W Phillips, 1958 June p 51
CAUSES OF BIOLOGICAL DIVERSITY THE, by Bryan
Clarke, 1975 Aug p 50 [1326]

CAVE BEAR THE, by Bjorn Kurten, 1972 Mar p 60

CAVE, PREHISTORIC MAN IN MAMMOTH, by Douglas W Schwartz, 1960 July p 130 CAVE, SHANIDAR, by Ralph S Solecki, 1957 Nov p 58

CAVE TO VILLAGE, FROM, by Robert J Braidwood, 1952 Oct p 62

CAVES LIFE IN, by Brother G Nicholas, F S C. 1955 May p 98

CELESTIAL NAVIGATION BY BIRDS by E G F Sauer, 1958 Aug p 42 [133]

CELESTIAL PALACE OF TYCHO BRAHE, THE, by John Christianson, 1961 Feb p 118

CELL ACETABULARIA A USEFUL GIANT, by Aharon Gibor, 1966 Nov p 118 [1057] CELL CYCLE, THE, by Daniel Mazia, 1974 Jan

p 54 [1288]
CELL DIFFERENTIATION PHASES IN, by Norman K.
Wessells and William J. Rutter, 1969 Mar

Wessells and William J Rutter, 1969 Mar p 36 [1136] CELL DIFFERENTIATION TRANSPLANTED NUCLEI

AND, by J B Gurdon, 1968 Dec p 24 [1128]
CELL DISEASE, CYANATE AND SICKLE, by Anthony
Cerami and Charles M Peterson, 1975 Apr
p 44 [1319]

CELL DIVISION, by Daniel Mazia, 1953 Aug. p 53 [27]

CELL ENERGY TRANSFORMATION IN THE, by Albert L Lehninger, 1960 May p 102 [69]

- CELL HOW VIRUSES INSERT THEIR DNA INTO THE DNA OF THE HOST, by Allan M Campbell, 1976 Dec p 102 [1347]
- CELL INFORMATION TRANSFER IN THE LIVING, by George Gamow, 1955 Oct p 70
- CELL IONIZING RADIATION AND THE LIVING, by Alexander Hollaender and George E Stapleton, 1959 Sept p 94
- CELL MEMBRANE, PORES IN THE, by A K Solomon, 1960 Dec p 146 [76]
- CELL MEMBRANES, A DYNAMIC MODEL OF, by Roderick A Capaldi, 1974 Mar p 26 [1292] CELL MEMBRANES COLICINS AND THE ENERGETICS
- of, by Salvador E Luria, 1975 Dec p 30 [1332]
- CELL MEMBRANES, THE CHEMISTRY OF, by Lowell E Hokin and Mabel R. Hokin, 1965 Oct p 78 [1022]
- CELL MEMBRANES THE STRUCTURE OF, by C Fred Fox, 1972 Feb p 30 [1241]
- CELL, NUCLEAR CONTROL OF THE, by Helen Gay, 1960 Jan p 126
- CELL POWERHOUSE OF THE, by Philip Siekevitz, 1957 July p 131 [36]
- CELL, PUMPS IN THE LIVING, by Arthur K. Solomon, 1962 Aug. p 100
- CELL RADIATION AND THE HUMAN, by Theodore T Puck, 1960 Apr p 142 [71]
- CELL SORTING FLUORESCENCE ACTIVATED, by Leonard A Herzenberg, Richard G Sweet and Leonore A Herzenberg, 1976 Mar p 108
- CELL SPECIFICITY THE ORIGINS OF NERVE, by Marcus Jacobson and R. Kevin Hunt, 1973 Feb p 26 [1265]
- CELL-SURFACE IMMUNOLOGY, by Martin C Raff, 1976 May p 30 [1338]
- CELL SURGERY BY LASER, by Michael W Berns and Donald E Rounds, 1970 Feb p 98 [1170]
- CELL THE LIVING, 1961 Sept p issue
 CELL THE LIVING, by Jean Brachet, 1961 Sept
 p 50 [90]
- CELL THE MEMBRANE OF THE LIVING, by J David Robertson, 1962 Apr p 64 [151]
- CELL THE RED BLOOD, by Eric Ponder, 1957 Jan p 95
- CELL THE TERMITE AND THE, by Martin Luscher, 1953 May p 74
- CELL WALL, THE BACTERIAL, by Nathan Sharon, 1969 May p 92
- CELLS AND AGING HUMAN, by Leonard Hayflick, 1968 Mar p 32 [1103]
- CELLS AND BEHAVIOR, NERVE, by Eric R Kandel, 1970 July p 57 [1182]
- CELLS AND EVOLUTION SICKLE, by Anthony C Allison, 1956 Aug p 87 [1065]
- CELLS AND HUMAN GENES HYBRID, by Frank H Ruddle and Raju S Kucherlapati, 1974 July p 36 [1300]
- CELLS AND TISSUES GIANT MOLECULES IN, by Francis O Schmitt, 1957 Sept p 204 [35] CELLS ASSOCIATE, HOW, by A. A. Moscona, 1961
- Sept p 142 CELLS AT HIGH PRESSURE, by Douglas Marsland, 1958 Oct p 36
- CELLS ATTACK ANTIGENS HOW, by Robert S Speirs, 1964 Feb p 58
- CELLS, AUTOBIOGRAPHIES OF, by Renato Baserga and Walter E. Kisieleski, 1963 Aug p 103 [165]
- CELLS AUTOMATIC ANALYSIS OF BLOOD, by Marylou Ingram and Kendall Preston, Jr 1970 Nov p 72
- CELLS CHANGE SHAPE HOW LIVING, by Norman K Wessells, 1971 Oct p 76 [1233]

- CELLS COMMUNICATE, How, by Bernhard Katz, 1961 Sept p 209 [98]
- CELLS DIFFERENTIATE? HOW DO, by C H Waddington, 1953 Sept p 108
- CELLS DIVIDE, How, by Daniel Mazia, 1961 Sept p 100 [93]
- CELLS FEEDBACK IN THE DIFFERENTIATION OF, by S Meryl Rose, 1958 Dec p 36
- CELLS HOW THINGS GET INTO, by Heinz Holter, 1961 Sept p 167 [96]
- CELLS HYBRID SOMATIC, by Boris Ephrussi and Mary C Weiss, 1969 Apr p 26 [1137]
- CELLS IN MOLLUSKS GIANT BRAIN, by A O D Willows, 1971 Feb p 68 [1212]
- CELLS IN THE NERVOUS SYSTEM SATELLITE, by Holger Hyden, 1961 Dec p 62 [134]
- CELLS IN THE PONS OF THE BRAIN VISUAL, by Mitchell Glickstein and Alan R. Gibson, 1976 Nov p. 90 [573]
- CELLS IN VITRO HEART, by Isaac Harary, 1962
 May p 141
- CELLS IN VITRO SINGLE HUMAN, by Theodore T Puck, 1957 Aug p 91 [33]
- CELLS JUNCTIONS BETWEEN LIVING, by L Andrew Staehelin and Barbara E. Hull, 1978 May p 140 [1388]
- CELLS MAKE ANTIBODIES HOW, by G J V Nossal, 1964 Dec p 106 [199]
- CELLS MAKE ATP How, by Peter C Hinkle and Richard E McCarty, 1978 Mar p 104 [1383]
- CELLS MAKE MOLECULES HOW, by Vincent G Allfrey and Alfred E Mirsky, 1961 Sept p 74 [92]
- CELLS MOVE, How, by Teru Hayashi, 1961 Sept p 184 [97]
- CELLS RECEIVE STIMULI HOW, by William H
 Miller, Floyd Rathiff and H K. Hartline, 1961
 Sept p 222 [99]
- CELLS SEX DIFFERENCES IN, by Ursula Mittwoch, 1963 July p 54 [161]
- CELLS SMALL SYSTEMS OF NERVE, by Donald Kennedy, 1967 May p 44 [1073]
- CELLS SPECIALIZE, HOW, by Michail Fischberg and Antonie W Blackler, 1961 Sept p 124 [94]
- CELLS THE CONTROL OF GROWTH IN PLANT, by F
 C Steward, 1963 Oct p 104
- CELLS THE FREEZING OF LIVING, by A S Parkes, 1956 June p 105
- CELLS THE SMALLEST LIVING, by Harold J
 Morowitz and Mark E. Tourtellotte, 1962
 Mar. p. 117, 110051
- Mar p 117 [1005] CELLS THE STATE OF WATER IN RED, by Arthur K Solomon, 1971 Feb p 88 [1213]
- CELLS THE TRACKS OF MOVING, by Guenter Albrecht-Buehler, 1978 Apr p 68 [1386]
- CELLS THE WALLS OF GROWING PLANT, by Peter Albersheim, 1975 Apr p 80 [1320]
- CELLS TISSUES FROM DISSOCIATED, by A A Moscona, 1959 May p 132
- CELLS. TRANSDETERMINATION IN, by Ernst Hadorn, 1968 Nov p 110 [1127]
- CELLS TRANSFORM ENERGY HOW, by A L
 Lehninger, 1961 Sept p 62 [91]
- CELLS TRANSFORMED, by S Meryl Rose, 1949 Dec p 22
- CELLS V BACTERIA, WHITE BLOOD, by W Barry Wood, Jr, 1951 Feb p 48 [51]
- CELLS VIRUSES WITHIN, by Joseph L Melnick, 1953 Dec p 38
- CELLS VISUAL, by Richard W Young, 1970 Oct p 80
- CELLS VOLVOX A COLONY OF, by John Tyler
 Bonner, 1950 May p 52
- CELLULAR COMMUNICATION, by Gunther S Stent, 1972 Sept p 42 [1257]

- CELLULAR FACTORS IN GENETIC
 TRANSFORMATION, by Alexander Tomasz,
 1969 Jan p 38
- CELLULOSE, by R. D Preston, 1957 Sept p 156
 CELLULOSE, PLANTS WITHOUT, by R D Preston,
 1968 June p 102 [1110]
- CELTIC FARMSTEAD IN SOUTHERN BRITAIN A, by Geoffrey Wainwright, 1977 Dec p 156 [702] CEMENT THE SOLIDIFICATION OF, by D D
- Double and A Hellawell, 1977 July p 82 [370]
 CEMETERY IN NEWFOUNDLAND AN ARCHAIC INDIAN, by James A Tuck, 1970 June p 112
- [657]
 CENSUS OF 1960 MORE FROM THE, by Philip M
- Hauser, 1962 Oct p 30 CENSUS OF 1960 THE, by Philip M Hauser, 1961
- July p 39 CENSUS OF 1970 THE, by Philip M Hauser, 1971
- July p 17
 CENSUS THE, by Philip M. Hauser, 1951 Apr.
- CENSUS THE, by Philip M Hauser, 1951 Apr p 15
- CENTER OF THE GALAXY THE, by R. H Sanders and G T Wrixon, 1974 Apr p 66
- CENTER PIVOT IRRIGATION, by William E Splinter, 1976 June p 90
- CENTRAL NERVOUS SYSTEM INHIBITION IN THE, by Victor J Wilson, 1966 May p 102
- CERAMICS THE NATURE OF, by John J Gilman, 1967 Sept p 112
- CEREBELLUM THE, by Ray S Smider, 1958 Aug p 84 [38]
- CEREBELLUM THE CORTEX OF THE, by Rodolfo R. Linas, 1975 Jan p 56 [1312]
- CEREBRAL COMMISSURE, THE GREAT, by R. W Sperry, 1964 Jan p 42 [174]
- CEREMONIAL CENTER, THE PLANNING OF A MAYA, by Norman Hammond, 1972 May p 82
- "CHALLENGER, THE VOYAGE OF THE, by Herbert S Bailey, Jr., 1953 May p 88
- CHAMBER, THE STREAMER, by David E Yount, 1967 Oct p 38
- CHANCE, by A J Ayer, 1965 Oct p 44
 CHANGING AMERICAN LANGUAGE, THE, by Jotham
 Johnson, 1955 Aug p 78
- CHANGING CLIMATE, THE, by George H T Kimble, 1950 Apr p 48
- CHANGING HELICOPTER, THE, by Alfred Gessow, 1967 Apr p 38
- CHANGING LEVEL OF THE SEA THE, by Rhodes W Fairbridge, 1960 May p 70
- CHANGING STATUS OF WOMEN IN DEVELOPED COUNTRIES THE, by Judith Blake, 1974 Sept p 136
- CHANNELING IN CRYSTALS, by Werner Brandt, 1968 Mar p 90
- CHANNELS COMMUNICATION, by Henri Busignies, 1972 Sept p 98
- CHARACTERISTICS EXPERIMENTS IN ACQUIRED, by C H Waddington, 1953 Dec p 92
- CHARGE COUPLED DEVICES, by Gilbert F Amelio, 1974 Feb p 22
- CHARM FUNDAMENTAL PARTICLES WITH, by Roy F Schwitters, 1977 Oct p 56 [388]
- CHECKS ON PUPULATION GROWTH 1750-1850, by William L Langer, 1972 Feb p 92 [674] CHELATION, by Harold F Walton, 1953 June
- p 68 CHELATION IN MEDICINE, by Jack Schubert, 1966
- May p 40
 CHEMICAL ACCELERATORS, by Richard Wolfgang, 1968 Oct p 44
- CHEMICAL AGRICULTURE, by Francis Joseph Weiss, 1952 Aug p 15
- CHEMICAL ANALYSIS BY INFRARED, by Bryce Crawford, Jr., 1953 Oct p 42 [257]

- CHEMICAL AND BIOLOGICAL WEAPONS, by
 Matthew S Meselson, 1970 May p 15
- CHEMICAL EFFECTS OF LIGHT THE, by Gerald Oster, 1968 Sept p 158
- CHEMICAL ELEMENTS OF LIFE, THE, by Earl Frieden, 1972 July p 52
- CHEMICAL FERTILIZERS, by Christopher J Pratt, 1965 June p 62
- CHEMICAL FOSSILS, by Geoffrey Eglinton and Melvin Calvin, 1967 Jan p 32 [308]
- CHEMICAL INTERVENTION, by Sherman M Mellinkoff, 1973 Sept p 102
- CHEMICAL LANGUAGES OF FISHES THE, by John H Todd, 1971 May p 98 [1222]
- CHEMICAL LASERS, by George C Pimentel, 1966 Apr p 32 [303]
- CHEMICAL MILLING, by Edmund L Van Deusen, 1957 Jan p 104
- CHEMICAL PLANT, AN AUTOMATIC, by Eugene Ayres, 1952 Sept p 82
- CHEMICAL PROPERTIES OF MATERIALS THE, by Howard Reiss, 1967 Sept p 210
- CHEMICAL PROSPECTING, by Harold Bloom and Harold F Walton, 1957 July p 41
- CHEMICAL REACTIONS ORGANIC, by John D Roberts, 1957 Nov p 117 [85]
- CHEMICAL REACTIONS ROTATING, by Arthur T Winfree, 1974 June p 82
- CHEMICAL SENSES THE, by Hans Kalmus, 1958 Apr p 97
- CHEMICAL STIMULATION OF THE BRAIN, by Alan E Fisher, 1964 June p 60 [485]
- CHEMICAL STRUCTURE OF PROTEINS THE, by William H Stein and Stanford Moore, 1961 Feb p 81
- CHEMICAL TOPOLOGY, by Edel Wasserman, 1962 Nov p 94 [286]
- CHEMICAL WARFARE AMONG THE PLANTS, by James Bonner, 1949 Mar p 48
- CHEMICALS BY BACTERIA THE SENSING OF, by Julius Adler, 1976 Apr p 40 [1337]
- CHEMICALS RADIATION IMITATING, by Peter Alexander, 1960 Jan p 99
- CHEMISTRY, by Linus Pauling, 1950 Sept p 32 CHEMISTRY AT HIGH VELOCITIES, by Richard Wolfgang, 1966 Jan p 82
- CHEMISTRY AT VERY HIGH TEMPERATURES, 1954 Sept p 116
- CHEMISTRY ATOMIC PILE, by John F Flagg and Edwin L Zebroski, 1952 July p 62
- CHEMISTRY BY COMPUTER, by Arnold C Wahl, 1970 Apr p 54
- CHEMISTRY COMPUTER EXPERIMENTS IN, by Don L. Bunker, 1964 July p. 100
- CHEMISTRY CORONA, by John A Coffman and William R. Browne, 1965 June p 90
- CHEMISTRY ECOLOGICAL, by Lincoln Pierson Brower, 1969 Feb p 22 [1133]
- CHEMISTRY GENEVA by J M Fletcher and F Hudswell, 1955 Oct p 34
- CHEMISTRY HIGH SPEED, by Lawrence P Lessing, 1953 May p 29
- CHEMISTRY HIGH TEMPERATURES, by Farrington Daniels, 1954 Sept p 109
- CHEMISTRY HOT ATOM, by Willard F Libby, 1950 Mar p 44
- CHEMISTRY IONIZING RADIATION AND ORGANIC, by A Charlesby, 1959 Sept p 180
- CHEMISTRY OF AMPHIBIAN METAMORPHOSIS THE, by Earl Frieden, 1963 Nov p 110 [170]
- CHEMISTRY OF CELL MEMBRANES THE, by Lowell E and Mabel R Holin, 1965 Oct p 78 [1022]
- CHEMISTRY OF CONCRETE, THE, by Stephen Brunauer and L. E. Copeland, 1964 Apr p 80

- CHEMISTRY OF HEREDITARY DISEASE, THE, by A G Bearn, 1956 Dec p 126
- CHEMISTRY OF HEREDITY THE, by A E Mirsky, 1953 Feb p 47 [28]
- CHEMISTRY OF JUPITER, THE, by Francis Owen Rice, 1956 June p 119
- CHEMISTRY OF SILICONES THE, by Eugene G Rochow, 1948 Oct p 50
- CHEMISTRY OF THE MOON THE CARBON, by Geoffrey Eglinton, James R Maxwell and Colin T Pillinger, 1972 Oct p 80
- CHEMISTRY OF THE NOBLE GASES THE, by Henry Selig, John G Malm and Howard H Claassen, 1964 May p 66
- CHEMISTRY OF THE SOLAR SYSTEM THE, by John S Lewis, 1974 Mar p 50
- CHEMISTRY RELAXATION METHODS IN, by Larry Faller, 1969 May p 30
- CHESS COMPUTER AN ADVICE TAKING, by Albert L Zobrist and Frederic R Carlson, Jr, 1973 June p 92
- CHESS-PLAYER, COMPUTER V, by Alex Bernstein and M deV Roberts, 1958 June p 96
- CHESS-PLAYING MACHINE, A, by Claude E Shannon, 1950 Feb p 48
- CHICK, SPACE PERCEPTION IN THE, by Eckhard H
 Hess, 1956 July p 71
- CHICKENS THE SOCIAL ORDER OF, by A M Guhl, 1956 Feb p 42 [471]
- CHILD AND MODERN PHYSICS THE, by Jean Plaget, 1957 Mar p 46
- CHILD DEVELOPMENT REPETITIVE PROCESSES IN, by T G R Bower, 1976 Nov p 38 [572]
- CHILDREN FORM MATHEMATICAL CONCEPTS, HOW, by Jean Piaget, 1953 Nov p 74 [420]
- CHILDREN HYPERACTIVE, by Mark A Stewart, 1970 Apr p 94 [527]
- CHIMPANZEE, THE OMNIVOROUS, by Geza Teleki, 1973 Jan p 32 [682]
- CHIMPANZEES ARITHMETIC BEHAVIOR IN, by Charles B Ferster, 1964 May p 98 [484] CHIMPANZEES IN THE WILD, by Adriaan
- Kortlandt, 1962 May p 128 [463]
- CHINA AGRICULTURE IN, by Sterling Wortman, 1975 June p 13
- CHINA HIGH TECHNOLOGY IN, by Raphael Tsu 1972 Dec p 13
- CHINA TECHNOLOGY IN, by Genko Uchida, 1966
 Nov p 37
- CHINA, THE DELIVERY OF MEDICAL CARE IN, by Victor W Sidel and Ruth Sidel, 1974 Apr p 19
- CHINAMPAS OF MEXICO THE, by Michael D Coe, 1964 July p 90 [648]
- CHINESE LANGUAGE, THE, by William S-Y Wang, 1973 Feb p 30
- CHINESE, MACHINE TRANSLATION OF, by Gilbert W King and Hsien-Wu Chang, 1963 June p 124
- CHINGIS KHAN AND THE MONGOL CONQUESTS, by Owen Latumore, 1963 Aug p 54
- CHLOROPHYLL IN PHOTOSYNTHESIS THE ROLE OF, by Eugene I Rabinowitch and Govindjee, 1965 July p 74 [1016]
- CHLOROPLASTS THE GENETIC ACTIVITY OF MITOCHONDRIA AND, by Ursula W Goodenough and R. P Levine, 1970 Nov p 22 [1203]
- CHOICE OF VOTING SYSTEMS THE, by Richard G Niemi and William H. Riker, 1976 June p. 21 16891
- CHOLERA, by Norbert Hirschhorn and William B Greenough III, 1971 Aug p 15
- CHONDRITES AND CHONDRULES, by John A Wood, 1963 Oct p 64
- CHONDRULES, CHONDRITES AND, by John A Wood, 1963 Oct p 64

- CHRIST JUDAISM AT THE TIME OF, by Michael E. Stone, 1973 Jan p 80
- CHROMATOGRAPHY, by William H Stein and Stanford Moore, 1951 Mar p 35 [81]
- CHROMATOGRAPHY GAS, by Roy A Keller, 1961 Oct p 58 [276]
- CHROMOSOMAL PROTEINS AND GENE REGULATION, by Gary S Stein, Janet Swinehart Stein and Lewis J Kleinsmith, 1975 Feb p 46 [1315]
- CHROMOSOME ANALYSIS BY COMPUTER, by Robert S Ledley and Frank H Ruddle, 1966 Apr p 40 [1040]
- CHROMOSOME PUFFS, by Wolfgang Beermann and Ulrich Clever, 1964 Apr p 50 [180]
- CHROMOSOME THE BACTERIAL, by John Caims, 1966 Jan p 36 [1030]
- CHROMOSOMES AND DISEASE, by A G Bearn and James L German III, 1961 Nov p 66 [1:0] CHROMOSOMES GENES OUTSIDE THE, by Ruth
- Sager, 1965 Jan p 70 [1002] CHROMOSOMES THE DUPLICATION OF, by J Herbert Taylor, 1958 June p 36 [60]
- CHROMOSOMES THE MAPPING OF HUMAN, by
- Victor A McKusick, 1971 Apr p 104 [1220] CHROMOSPHERE THE SOLAR, by R Grant Athay, 1962 Feb p 50
- CILIA, by Peter Satir, 1961 Feb p 108 [79] CILIA MOVE, HOW, by Peter Satir, 1974 Oct p 44 [1304]
- CIRCUIT BREAKERS, by Werner Rieder, 1971 Jan p. 76
- CIRCUIT ELEMENTS MICROELECTRONIC, by James D Meindl, 1977 Sept p 70 [375]
- CIRCUITS THE FABRICATION OF MICROELECTRONIC, by William G Oldham, 1977 Sept p 110 [377]
- CIRCUITS. THE LARGE SCALE INTEGRATION OF MICROELECTRONIC, by William C Holton, 1977 Sept p 82 [376]
- CIRCULATION OF ATMOSPHERIC POLLUTANTS, THE GLOBAL, by Reginald E. Newell, 1971 Jan p 32 [894]
- CIRCULATION OF RADIOACTIVE ISOTOPES, THE, b)
 James R Arnold and E A Martell, 1959
 Sept p 84
- CIRCULATION OF THE ABYSS THE, by Henry Stommel, 1958 July p 85
- CIRCULATION OF THE ATMOSPHERE, THE, by Harry Wexler 1955 Sept p 114 [841]
- CIRCULATION OF THE ATMOSPHERE THE GENERAL, by Victor P Start, 1956 Dec p 40 CIRCULATION OF THE OCEANS THE, by Walter
- Munk, 1955 Sept p 96 [813]
 CIRCULATION OF THE SUN'S ATMOSPHERE THE, by
 Victor P Starr and Peter A Gilman 1968
- Jan p 100
 CIRCULATION OF THE UPPER ATMOSPHERE, THE, by
 Reginald E Newell, 1964 Mar p 62
- Reginald E. Newell, 1964 Mar. p. 62 CIRCULATORY SYSTEM OF PLANTS, THE, by Susann and Orlin Biddulph, 1959 Feb. p. 44 [23]
- CITADEL HITTITE, 1949 Aug p 22 CITIES, 1965 Sept issue
- Schaedel, 1951 Aug p 18
- CITIES THE CLIMATE OF, by William P Lowry.

 1967 Aug p 15 [1215]
- CITIES THE FORM OF, by Kevin Lynch, 1954 Apr p 54 CITIES THE METABOLISM OF, by Abel Wolman,
- 1965 Sept p 178

 CITIES THE ORIGINAND EVOLUTION OF, by Gideon
- Sjoberg, 1965 Sept p 54 cities the origin of, by Robert M Adams 1960 Sept p 153 [606]
- CITIES THE RENEWALOF, by Nathan Glazer 1965 Sept p 194

- CITIES, THE USES OF LAND IN, by Charles Abrams, 1965 Sept. p. 150.
- CITIES, TRANSPORTATION IN, by John W. Dyckman, 1965 Sept. p. 162.
- CITY AS ENVIRONMENT, THE, by Kevin Lynch, 1965 Sept. p. 209.
- CITY, CIUDAD GUAYANA: A NEW, by Lloyd Rodwin, 1965 Sept. p. 122.
- CITY IN IRAN, AN EARLY, by C. C. and Martha Lamberg-Karlovsky, 1971 June p. 102. [660] CITY IN TURKEY, A NEOLITHIC, by James Mellaart,
- 1964 Apr. p. 94. [620] CITY OF MIDAS, THE, by Machteld J. Mellink, 1959 July p. 100.
- CITY, STOCKHOLM: A PLANNED, by Goran Sidenbladh, 1965 Sept. p. 106.
- CITY. THE SLOW DEATH OF A, by Jotham Johnson, 1954 July p. 66.
- CIUDAD GUAYANA: A NEW CITY, by Lloyd Rodwin, 1965 Sept. p. 122.
- CIVILIZATION OF THE PERSIAN GULF, A FORGOTTEN, by P. V. Glob and T. G. Bibby, 1960 Oct. p. 62.
- CIVILIZATION, THE DEATH OF A, by Tatiana Proskouriakoff, 1955 May p. 82.
- CIVILIZATION, THE ORIGINS OF NEW WORLD, by Richard S. MacNeish, 1964 Nov. p. 29. [625] CLAMS, GIANT, by C. M. Yonge, 1975 Apr. p. 96. CLAY, QUICK, by Paul F. Kert, 1963 Nov. p. 132. CLEAN AIR ACT OF 1970, ENFORCING THE, by Noel de Nevers, 1973 June p. 14.
- CLEAN POWER FROM DIRTY FUELS, by Arthur M. Squires, 1972 Oct. p. 26.
- CLEANING SYMBIOSIS, by Conrad Limbaugh, 1961 Aug. p. 42. [135]
- "CLIENT-CENTERED" PSYCHOTHERAPY, by Carl R. Rogers, 1952 Nov. p. 66. [448]
- CLIFFORD, WILLIAM KINGDON, by James R. Newman, 1953 Feb. p. 78.
- CLIMATE AND AGRICULTURE, by Frits W. Went, 1957 June p. 82.
- CLIMATE AND THE CHANGING SUN, by Ernst J. Opik, 1958 June p. 85. [835]
- CLIMATE, CARBON DIOXIDE AND, by Gilbert N. Plass, 1959 July p. 41. [823]
- CLIMATE OF CITIES, THE, by William P. Lowry, 1967 Aug. p. 15. [1215]
- CLIMATE, PRIMITIVE ARCHITECTURE AND, by James Marston Fitch and Daniel P. Branch, 1960 Dee. p. 134.
- CLIMATE THE CHANGING, by George H. T. Kimble, 1950 Apr. p. 48.
- CLIMATE, TREE RINGS AND, by Harold C. Fritts, 1972 May p. 92. [1250]
- CLIMATE, VOLCANOES AND WORLD, by Harry Wexler, 1952 Apr. p. 74. [843]
- CLIMATE WINES, GRAPE VINES AND, by Philip Wagner, 1974 June p. 106. [1298]
- CLOCK OF INSECTS, THE BIOLOGICAL, by D. S. Saunders, 1976 Feb. p. 114. [1335]
- CLOCK OF THE MALARIA PARASITE, THE, by Frank Hawking, 1970 June p. 123.
- CLOCK PARADOX, THE, by J. Bronowski, 1963 Feb. p. 134.
- CLOCKS AND THE FIDDLER CRAB, BIOLOGICAL, by Frank A. Brown, Jr., 1954 Apr. p. 34.
- CLOCKS, ANNUAL BIOLOGICAL, by Eric T.
 Pengelley and Sally J. Asmundson, 1971 Apr.
 p. 72. [1219]
- CLOCKS, ATOMIC, by Harold Lyons, 1957 Feb. p. 71. [225]
- CLOCKS, CORALS AS PALEONTOLOGICAL, by S. K. Runcorn, 1966 Oct. p. 26. [871]
- CLOCKS OF THE TIDAL ZONE BIOLOGICAL, by John D. Palmer, 1975 Feb. p. 70. [1316]
 CLOTHES, WARM, by M. E. Barker, 1951 Mar. p. 56.

- CLOTHING, HEAT, COLD AND, by James B. Kelley, 1956 Feb. p. 109.
- CLOTS, THE CONTROL OF BLOOD, by Shepard Shapiro, 1951 Mar. p. 18.
- CLOTTING OF FIBRINOGEN, THE, by Koloman Laki, 1962 Mar. p. 60.
- CLOUD OF MAGELLAN, THE LARGE, by Bart J. Bok, 1964 Jan. p. 32.
- CLOUD SEEDING, by Bernard Vonnegut, 1952 Jan. p. 17.
- CLOUDS IN SPACE, ARTIFICIAL PLASMA, by Gerhard Haerendel and Reimar Lüst, 1968 Nov. p. 80.
- CLOUDS, NOCTILUCENT, by Robert K. Soberman, 1963 June p. 50.
- CLOUDS OF MAGELLAN, THE, by Gérard de Vaucouleurs, 1956 Apr. p. 52.
- CLOUDS, SUN CLOUDS AND RAIN, by Walter Orr Roberts, 1957 Apr. p. 138. [849]
- CLOUDS, TRADE-WIND, by Joanne Starr Malkus, 1953 Nov. p. 31.
- CLUSTERING OF GALAXIES, THE, by Edward J. Groth, P. James E. Peebles, Michael Seldner and Raymond M. Soneira, 1977 Nov. p. 76. [390]
- COAL, by Lawrence P. Lessing, 1955 July p. 58. COAL-DRIVEN POWER STATIONS, ON THE
- FEASIBILITY OF, by O. R. Frisch, 1956 Mar. p. 93.
- COAL, OIL AND GAS FROM, by Neal P. Cochran, 1976 May p. 24.
- COAL TECHNOLOGY, THE RISE OF, by John R. Harris, 1974 Aug. p. 92.
- COAL, THE BEGINNINGS OF, by Raymond E. Janssen, 1948 July p. 46.
- COAL, THE GASIFICATION OF, by Harry Perry, 1974 Mar. p. 19.
- COAL, THE STRIP-MINING OF WESTERN, by Genevieve Atwood, 1975 Dec. p. 23.
- COAL, URANIUM FROM, by Ralph L. Miller and James R. Gill, 1954 Oct. p. 36.
- COANDA EFFECT, APPLICATIONS OF THE, by Imants Reba, 1966 June p. 84.
- COATINGS, OPTICAL INTERFERENCE, by Philip Baumeister and Gerald Pincus, 1970 Dec. p. 58.
- cocoons, Brains and, by William G. van der Kloot, 1956 Apr. p. 131.
- CODE, ORIGINS OF THE BINARY, by F. G. Heath, 1972, Aug. p. 76.
- 1972 Aug. p. 76.
 CODES, ERROR-CORRECTING, by W. Wesley
- Peterson, 1962 Feb. p. 96. COELACANTH, THE, by Jacques Millot, 1955 Dec.
- p. 34. [831] COGNITIVE DISSONANCE, by Leon Festinger, 1962 Oct. p. 93. [472]
- COIL THE INDUCTION, by George Shiers, 1971 May p. 80.
- COLD. ADAPTATIONS TO, by Laurence Irving, 1966
 Jan. p. 94. [1032]
- COLD AND CLOTHING, HEAT, by James B. Kelley, 1956 Feb. p. 109.
- COLD. THE COMMON, by Christopher Howard
- Andrewes, 1951 Feb. p. 39.
 COLD. THE VIRUSES OF THE COMMON, by
 Christopher Howard Andrewes, 1960 Dec.
- Christopher Howard Andrewes, 1960 Dec. p. 88.
 COLICINS AND THE ENERGETICS OF CELL
- MEMBRANES, by Salvador E. Luria, 1975 Dec. p. 30. [1332]
- collagen, by Jerome Gross, 1961 May p. 120. collagen. The aging of, by Frederic Verzar, 1963 Apr. p. 104. [155]
- COLLECTIVE-EFFECT ACCELERATORS, by Denis Keefe, 1972 Apr. p. 22.
- COLLICULUS OF THE BRAIN, THE SUPERIOR, by Barbara Gordon, 1972 Dec. p. 72, [553]

- colliding galaxies, by Rudolph Minkowski, 1956 Sept. p. 125.
- COLLISION BETWEEN INDIA AND EURASIA, THE, by Peter Molnar and Paul Tapponnier, 1977 Apr. p. 30. [923]
- COLOR BLINDNESS, by Alphonse Chapanis, 1951 Mar. p. 48.
- COLOR BLINDNESS, VISUAL PIGMENTS AND, by W. A. H. Rushton, 1975 Mar. p. 64. [1317]
- COLOR, DEFENSE BY, by N. Tinbergen, 1957 Oct. p. 48.
- COLOR, HORMONES AND SKIN, by Aaron B. Lerner, 1961 July p. 98.
- color, how animals change, by Lorus J. and Margery J. Milne, 1952 Mar. p. 64.
- COLOR PHOTOGRAPH, MAXWELL'S, by Ralph M. Evans, 1961 Nov. p. 118.
- COLOR, SEEING LIGHT AND, by Ralph M. Evans, 1949 Aug. p. 52.
- COLOR TELEVISION, by Newbern Smith, 1950 Dec. p. 13.
- color, the perception of surface, by Jacob Beck, 1975 Aug. p. 62. [565]
- COLOR VISION, EXPERIMENTS IN, by Edwin H. Land, 1959 May p. 84. [223]
- COLOR VISION, THE RETINEX THEORY OF, by Edwin H. Land, 1977 Dec. p. 108. [1392]
- COLOR VISION, THREE-PIGMENT, by Edward F.
- MacNichol, Jr., 1964 Dec. p. 48. [197] COLORS, AUTUMN, by Kenneth V. Thimann, 1950 Oct. p. 40.
- COLORS, THE PERCEPTION OF NEUTRAL, by Hans Wallach, 1963 Jan. p. 107. [474]
- COMBAT, STRESS IN, by Stanley W. Davis, 1956 Mar. p. 31.
- COMBINATORIAL MATHEMATICS OF SCHEDULING, THE, by Ronald L. Graham, 1978 Mar. p. 124. [3001]
- COMBUSTION IN ROCKETS, RESONANT, by J. George Sotter and Gary A. Flandro, 1968 Dec. p. 94.
- COMETS, by Fred L. Whipple, 1951 July p. 22. COMETS. THE NATURE OF, by Fred L. Whipple, 1974 Feb. p. 48.
- COMETS. THE TAILS OF, by Ludwig F. Biermann and Rhea Lüst, 1958 Oct. p. 44.
- COMMERCE CATS AND, by Neil B. Todd, 1977 Nov. p. 100. [1370]
- COMMISSURE, THE GREAT CEREBRAL, by R. W. Sperry, 1964 Jan. p. 42. [174]
- COMMON COLD, THE, by Christopher Howard Andrewes, 1951 Feb. p. 39.
- COMMUNICATE, HOW CELLS, by Bernhard Katz, 1961 Sept. p. 209. [98]
- COMMUNICATION, 1972 Sept. issue. COMMUNICATION, by John R. Pierce, 1972 Sept.
- p. 30. [677]
- COMMUNICATION AND FREEDOM OF EXPRESSION, by Thomas I. Emerson, 1972 Sept. p. 163. [680]
- George Gerbner, 1972 Sept. p. 152. [679]
- COMMUNICATION AND THE COMMUNITY, by Peter C. Goldmark, 1972 Sept. p. 142. [678] COMMUNICATION. ANIMAL, by Edward O.
- Wilson, 1972 Sept. p. 52. [1258]

 COMMUNICATION BETWEEN ANTS AND THEIR

 GUESTS. by Bert Holldobler, 1971 Mar. p. 8
- GUESTS, by Bert Holldobler, 1971 Mar. p. 86. [1218]
 COMMUNICATION BY LASER, by Stewart E. Miller,
- 1966 Jan. p. 19.
- COMMUNICATION BY OPTICAL FIBER, by J. S. Cook, 1973 Nov. p. 28.
- COMMUNICATION, CELLULAR, by Gunther S. Stent, 1972 Sept. p. 42. [1257]
- COMMUNICATION CHANNELS, by Henri Busignies, 1972 Sept. p. 98.

- CHEMICAL AND BIOLOGICAL WEAPONS, by Matthew S. Meselson, 1970 May p. 15. CHEMICAL EFFECTS OF LIGHT, THE, by Gerald
- Oster, 1968 Sept. p. 158. CHEMICAL ELEMENTS OF LIFE, THE, by Earl Frieden, 1972 July p. 52.
- CHEMICAL FERTILIZERS, by Christopher J. Pratt, 1965 June p. 62.
- CHEMICAL FOSSILS, by Geoffrey Eglinton and Melvin Calvin, 1967 Jan. p. 32. [308]
- CHEMICAL INTERVENTION, by Sherman M. Mellinkoff, 1973 Sept. p. 102.
- CHEMICAL LANGUAGES OF FISHES, THE, by John H. Todd, 1971 May p. 98. [1222]
- CHEMICAL LASERS, by George C. Pimentel, 1966 Apr. p. 32. [303]
- CHEMICAL MILLING, by Edmund L. Van Deusen, 1957 Jan. p. 104.
- CHEMICAL PLANT, AN AUTOMATIC, by Eugene Ayres, 1952 Sept. p. 82.
- CHEMICAL PROPERTIES OF MATERIALS, THE, by Howard Reiss, 1967 Sept. p. 210.
- CHEMICAL PROSPECTING, by Harold Bloom and Harold F. Walton, 1957 July p. 41.
- CHEMICAL REACTIONS, ORGANIC, by John D. Roberts, 1957 Nov. p. 117. [85]
- CHEMICAL REACTIONS, ROTATING, by Arthur T. Winfree, 1974 June p. 82.
- CHEMICAL SENSES, THE, by Hans Kalmus, 1958 Apr. p. 97.
- CHEMICAL STIMULATION OF THE BRAIN, by Alan E. Fisher, 1964 June p. 60. [485]
- CHEMICAL STRUCTURE OF PROTEINS, THE, by William H. Stein and Stanford Moore, 1961 Feb. p. 81.
- CHEMICAL TOPOLOGY, by Edel Wasserman, 1962 Nov. p. 94. [286]
- CHEMICAL WARFARE AMONG THE PLANTS, by James Bonner, 1949 Mar. p. 48.
- CHEMICALS BY BACTERIA, THE SENSING OF, by Julius Adler, 1976 Apr. p. 40. [1337]
- CHEMICALS, RADIATION-IMITATING, by Peter Alexander, 1960 Jan. p. 99.
- CHEMISTRY, by Linus Pauling, 1950 Sept. p. 32. CHEMISTRY AT HIGH VELOCITIES, by Richard Wolfgang, 1966 Jan. p. 82.
- CHEMISTRY AT VERY HIGH TEMPERATURES, 1954 Sept. p. 116.
- CHEMISTRY, ATOMIC PILE, by John F. Flagg and Edwin L. Zebroski, 1952 July p. 62.
- CHEMISTRY BY COMPUTER, by Arnold C. Wahl, 1970 Apr. p. 54.
- CHEMISTRY, COMPUTER EXPERIMENTS IN, by Don L. Bunker, 1964 July p. 100.
- CHEMISTRY, CORONA, by John A. Coffman and William R. Browne, 1965 June p. 90.
- CHEMISTRY, ECOLOGICAL, by Lincoln Pierson Brower, 1969 Feb. p. 22. [1133]
- CHEMISTRY, GENEVA by J. M. Fletcher and F. Hudswell, 1955 Oct. p. 34.
- CHEMISTRY, HIGH-SPEED, by Lawrence P. Lessing, 1953 May p. 29.
- CHEMISTRY, HIGH TEMPERATURES, by Farrington Daniels, 1954 Sept. p. 109.
- CHEMISTRY, HOT ATOM, by Willard F. Libby, 1950 Mar. p. 44.
- CHEMISTRY, IONIZING RADIATION AND ORGANIC, by A. Charlesby, 1959 Sept. p. 180.
 CHEMISTRY OF AMPHIBIAN METAMORPHOSIS, THE,
- by Earl Frieden, 1963 Nov. p. 110. [170] CHEMISTRY OF CELL MEMBRANES, THE, by Lowell E. and Mabel R. Hokin, 1965 Oct. p. 78.
- CHEMISTRY OF CONCRETE. THE, by Stephen Brunauer and L. E. Copeland, 1964 Apr. p. 80.

- CHEMISTRY OF HEREDITARY DISEASE, THE, by A. G. Bearn, 1956 Dec. p. 126.
- CHEMISTRY OF HEREDITY. THE, by A. E. Mirsky, 1953 Feb. p. 47. [28]
- CHEMISTRY OF JUPITER, THE, by Francis Owen Rice, 1956 June p. 119.
- CHEMISTRY OF SILICONES, THE, by Eugene G. Rochow, 1948 Oct. p. 50.
- CHEMISTRY OF THE MOON. THE CARBON, by Geoffrey Eglinton, James R. Maxwell and Colin T. Pillinger, 1972 Oct. p. 80.
- CHEMISTRY OF THE NOBLE GASES, THE, by Henry Selig, John G. Malm and Howard H. Claassen, 1964 May p. 66.
- CHEMISTRY OF THE SOLAR SYSTEM, THE, by John S. Lewis, 1974 Mar. p. 50.
- CHEMISTRY, RELAXATION METHODS IN, by Larry Faller, 1969 May p. 30.
- CHESS COMPUTER, AN ADVICE-TAKING, by Albert L. Zobrist and Frederic R. Carlson, Jr., 1973 June p. 92.
- CHESS-PLAYER, COMPUTER v, by Alex Bernstein and M. deV. Roberts, 1958 June p. 96.
- CHESS-PLAYING MACHINE A, by Claude E. Shannon, 1950 Feb. p. 48.
- CHICK, SPACE PERCEPTION IN THE, by Eckhard H. Hess, 1956 July p. 71.
- CHICKENS, THE SOCIAL ORDER OF, by A. M. Guhl, 1956 Feb. p. 42. [471]
- CHILD AND MODERN PHYSICS, THE, by Jean Piaget, 1957 Mar. p. 46.
- CHILD DEVELOPMENT, REPETITIVE PROCESSES IN, by T. G. R. Bower, 1976 Nov. p. 38. [572]
- CHILDREN FORM MATHEMATICAL CONCEPTS, HOW, by Jean Piaget, 1953 Nov. p. 74. [420]
- CHILDREN, HYPERACTIVE, by Mark A. Stewart, 1970 Apr. p. 94. [527]
- CHIMPANZEE, THE OMNIVOROUS, by Geza Teleki, 1973 Jan. p. 32. [682]
- Chimpanzees, arithmetic behavior in, by Charles B. Ferster, 1964 May p. 98. [484]
- CHIMPANZEES IN THE WILD, by Adriaan Kortlandt, 1962 May p. 128. [463]
- CHINA, AGRICULTURE IN, by Sterling Wortman, 1975 June p. 13.
- CHINA, HIGH TECHNOLOGY IN, by Raphael Tsu, 1972 Dec. p. 13.
- CHINA, TECHNOLOGY IN, by Genko Uchida, 1966 Nov. p. 37.
- CHINA, THE DELIVERY OF MEDICAL CARE IN, by Victor W. Sidel and Ruth Sidel, 1974 Apr. p. 19.
- CHINAMPAS OF MEXICO, THE, by Michael D. Coe, 1964 July p. 90. [648]
- CHINESE LANGUAGE, THE, by William S-Y. Wang, 1973 Feb. p. 50.
- CHINESE, MACHINE TRANSLATION OF, by Gilbert W. King and Hsien-Wu Chang, 1963 June p. 124.
- CHINGIS KHAN AND THE MONGOL CONQUESTS, by Owen Lattimore, 1963 Aug. p. 54.
- CHLOROPHYLL IN PHOTOSYNTHESIS. THE ROLE OF, by Eugene I. Rabinowitch and Govindjee, 1965 July p. 74. [1016]
- CHLOROPLASTS, THE GENETIC ACTIVITY OF MITOCHONDRIA AND, by Ursula W. Goodenough and R. P. Levine, 1970 Nov. p. 22. [1203]
- CHOICE OF VOTING SYSTEMS, THE, by Richard G. Niemi and William H. Riker, 1976 June p. 21. [689]
- CHOLERA, by Norbert Hirschhorn and William B. Greenough III, 1971 Aug. p. 15.
- CHONDRITES AND CHONDRULES, by John A. Wood, 1963 Oct. p. 64.
- CHONDRULES, CHONDRITES AND, by John A. Wood, 1963 Oct. p. 64.

- CHRIST JUDAISM AT THE TIME OF, by Michael E. Stone, 1973 Jan. p. 80.
- CHROMATOGRAPHY, by William H. Stein and Stanford Moore, 1951 Mar. p. 35, [81]
- CHROMATOGRAPHY, GAS, by Roy A. Keller, 1961 Oct. p. 58. [276]
- CHROMOSOMAL PROTEINS AND GENE REGULATION, by Gary S. Stein, Janet Swinehart Stein and Lewis J. Kleinsmith, 1975 Feb. p. 46. [1315]
- CHROMOSOME ANALYSIS BY COMPUTER, by Robert S. Ledley and Frank H. Ruddle, 1966 Apr. p. 40. [1040]
- CHROMOSOME PUFFS, by Wolfgang Beermann and Ulrich Clever, 1964 Apr. p. 50. [180]
- CHROMOSOME THE BACTERIAL, by John Cairns, 1966 Jan. p. 36. [1030]
- CHROMOSOMES AND DISEASE, by A. G. Beam and James L. German III, 1961 Nov. p. 66. [150] CHROMOSOMES, GENES OUTSIDE THE, by Ruth
- Sager, 1965 Jan. p. 70. [1002] CHROMOSOMES, THE DUPLICATION OF, by J.
- Herbert Taylor, 1958 June p. 36. [60] CHROMOSOMES, THE MAPPING OF HUMAN, by Victor A. McKusick, 1971 Apr. p. 104. [1220]
- CHROMOSPHERE. THE SOLAR, by R. Grant Athay, 1962 Feb. p. 50.
- CILIA, by Peter Satir, 1961 Feb. p. 108. [79]
 CILIA MOVE, HOW, by Peter Satir, 1974 Oct. p. 44.
 [1304]
- CIRCUIT BREAKERS, by Werner Rieder, 1971 Jan. p. 76.
- CIRCUIT ELEMENTS MICROELECTRONIC, by James D. Meindl, 1977 Sept. p. 70. [375]
- CIRCUITS, THE FABRICATION OF MICROELECTRONIC, by William G. Oldham, 1977 Sept. p. 110. [377]
- CIRCUITS, THE LARGE-SCALE INTEGRATION OF MICROELECTRONIC, by William C. Holton, 1977 Sept. p. 82. [376]
- CIRCULATION OF ATMOSPHERIC POLLUTANTS, THE GLOBAL, by Reginald E. Newell, 1971 Jan. p. 32. [894]
- CIRCULATION OF RADIOACTIVE ISOTOPES, THE, by James R. Arnold and E. A. Martell, 1959 Sept. p. 84.
- CIRCULATION OF THE ABYSS, THE, by Henry Stommel, 1958 July p. 85.
- CIRCULATION OF THE ATMOSPHERE, THE, by Harry Wexler, 1955 Sept. p. 114. [841]
- CIRCULATION OF THE ATMOSPHERE, THE GENERAL, by Victor P. Siatr, 1956 Dec. p. 40.
- CIRCULATION OF THE OCEANS, THE, by Walter Munk, 1955 Sept. p. 96. [813]
- CIRCULATION OF THE SUN'S ATMOSPHERE THE, by Victor P. Starr and Peter A. Gilman, 1968 Jan. p. 100.
- CIRCULATION OF THE UPPER ATMOSPHERE, THE, by Reginald E. Newell, 1964 Mar. p. 62.
- CIRCULATORY SYSTEM OF PLANTS, THE, by Susann and Orlin Biddulph, 1959 Feb. p. 44 [53]
- CITADEL, HITTITE, 1949 Aug. p. 22. CITIES, 1965 Sept. ISSUE
- CITIES OF PERU, THE LOST, by Richard P. Schaedel, 1951 Aug. p. 18.
- CITIES, THE CLIMATE OF, by William P. Lowry, 1967 Aug. p. 15. [1215]
- CITIES, THE FORM OF, by Kevin Lynch, 1954 Apr p. 54.
- CITIES, THE METABOLISM OF, by Abel Wolman, 1965 Sept. p. 178.
- CITIES, THE ORIGIN AND EVOLUTION OF, by Gideon Sjoberg, 1965 Sept. p. 54.
- CITIES, THE ORIGIN OF, by Robert M. Adams, 1960 Sept. p. 153. [606]
- CITIES, THE RENEWAL OF, by Nathan Glazer, 1965 Sept. p. 194.

- CITIES THE USES OF LAND IN, by Charles Abrams, 1965 Sept p 150
- CITIES TRANSPORTATION IN, by John W Dyckman, 1965 Sept p 162
- CITY AS ENVIRONMENT THE, by Kevin Lynch, 1965 Sept p 209
- CITY CIUDAD GUAYANA A NEW, by Lloyd Rodwin, 1965 Sept p 122
- CITY IN IRAN AN EARLY, by C C and Martha Lamberg-Karlovsky, 1971 June p 102 [660] CITY IN TURKEY A NEOLITHIC, by James Mellaart, 1964 Apr p 94 [620]
- CITY OF MIDAS THE, by Machteld J Mellink, 1959 July p 100
- CITY STOCKHOLM A PLANNED, by Goran Sidenbladh, 1965 Sept p 106
- CITY THE SLOW DEATH OF A, by Jotham Johnson, 1954 July p 66
- CIUDAD GUAYANA A NEW CITY, by Lloyd Rodwin, 1965 Sept p 122
- CIVILIZATION OF THE PERSIAN GULF A FORGOTTEN, by P V Glob and T G Bibby, 1960 Oct p 62
- CIVILIZATION THE DEATH OF A, by Tatiana Proskouriakoff, 1955 May p 82
- CIVILIZATION THE ORIGINS OF NEW WORLD, by Richard S MacNeish, 1964 Nov p 29 [625] CLAMS GIANT, by C M Yonge, 1975 Apr p 96 CLAY QUICK, by Paul F Kerr, 1963 Nov p 132 CLEAN AIR ACT OF 1970 ENFORCING THE, by Noel de Nevers, 1973 June p 14
- CLEAN POWER FROM DIRTY FUELS, by Arthur M Squires, 1972 Oct p 26
- CLEANING SYMBIOSIS, by Conrad Limbaugh, 1961 Aug p 42 [135]
- "CLIENT CENTERED PSYCHOTHERAPY, by Carl R. Rogers, 1952 Nov p 66 [448]
- CLIFFORD WILLIAM KINGDON, by James R Newman, 1953 Feb p 78
- CLIMATE AND AGRICULTURE, by Frits W Went, 1957 June p 82
- CLIMATE AND THE CHANGING SUN, by Ernst J Opik, 1958 June p 85 [835]
- CLIMATE CARBON DIOXIDE AND, by Gilbert N
- Plass, 1959 July p 41 [823]
 CLIMATE OF CITIES THE, by William P Lowry, 1967 Aug p 15 [1215]
- CLIMATE, PRIMITIVE ARCHITECTURE AND, by James Marston Fitch and Daniel P Branch, 1960 Dee p 134
- CLIMATE THE CHANGING, by George H T Kimble, 1950 Apr p 48
- CLIMATE, TREE RINGS AND, by Harold C Fritts, 1972 May p 92 [1250]
- CLIMATE, VOLCANOES AND WORLD, by Harry Wexler, 1952 Apr p 74 [843]
- CLIMATE WINES, GRAPE VINES AND, by Philip Wagner, 1974 June p 106 [1298]
- CLOCK OF INSECTS THE BIOLOGICAL, by D S Saunders, 1976 Feb p 114 [1335]
- CLOCK OF THE MALARIA PARASITE, THE, by Frank Hawking, 1970 June p 123
- CLOCK PARADOX, THE, by J Bronowski, 1963 Feb p 134
- CLOCKS AND THE FIDDLER CRAB BIOLOGICAL, by Frank A Brown, Jr., 1954 Apr p 34
- CLOCKS, ANNUAL BIOLOGICAL, by Eric T Pengelley and Sally J Asmundson, 1971 Apr p 72 [1219]
- p 71 [225]
- CLOCKS CORALS AS PALEONTOLOGICAL, by S. K. Runcorn, 1966 Oct. p. 26 [871]
- CLOCKS OF THE TIDAL ZONE BIOLOGICAL, by John D Palmer, 1975 Feb p 70 [1316]
 CLOTHES, WARM, by M E. Barker, 1951 Mar p 56

- CLOTHING HEAT COLD AND, by James B Kelley, 1956 Feb p 109
- CLOTS THE CONTROL OF BLOOD, by Shepard Shapiro, 1951 Mar p 18
- CLOTTING OF FIBRINGGEN THE, by Koloman Laki, 1962 Mar p 60
- CLOUD OF MAGELLAN THE LARGE, by Bart J Bok, 1964 Jan p 32
- CLOUD SEEDING, by Bernard Vonnegut, 1952

 Jan p 17
- CLOUDS IN SPACE, ARTIFICIAL PLASMA, by Gerhard Haerendel and Reimar Lust, 1968 Nov p 80 CLOUDS NOCTILUCENT, by Robert K. Soberman, 1963 June p 50
- CLOUDS OF MAGELLAN THE, by Gerard de Vaucouleurs, 1956 Apr p 52
- CLOUDS SUN CLOUDS AND RAIN, by Walter Orr Roberts, 1957 Apr p 138 [849]
- CLOUDS TRADE WIND, by Joanne Starr Malkus, 1953 Nov p 31
- CLUSTERING OF GALAXIES THE, by Edward J
 Groth, P James E Peebles, Michael Seldner
 and Raymond M Soneira, 1977 Nov p 76
 [390]
- COAL, by Lawrence P Lessing, 1955 July p 58
 COAL DRIVEN POWER STATIONS ON THE
 FEASIBILITY OF, by O R Frisch, 1956 Mar
 p 93
- COAL OIL AND GAS FROM, by Neal P Cochran, 1976 May p 24
- COAL TECHNOLOGY THE RISE OF, by John R Harris, 1974 Aug p 92
- COAL THE BEGINNINGS OF, by Raymond E Janssen, 1948 July p 46
- COAL THE GASIFICATION OF, by Harry Perry, 1974 Mar p 19
- COAL, THE STRIP MINING OF WESTERN, by Genevieve Atwood, 1975 Dec p 23
- COAL, URANIUM FROM, by Ralph L Miller and James R Gill, 1954 Oct p 36
- COANDA EFFECT APPLICATIONS OF THE, by Imants Reba, 1966 June p 84
- COATINGS OPTICAL INTERFERENCE, by Philip Baumeister and Gerald Pincus, 1970 Dec p 58
- COCCOONS BRAINS AND, by William G van der Kloot, 1956 Apr p 131
- CODE, ORIGINS OF THE BINARY, by F G Heath, 1972 Aug p 76
- CODES ERROR CORRECTING, by W Wesley Peterson, 1962 Feb p 96
- COELACANTH THE, by Jacques Millot, 1955 Dec p 34 [831]
- COGNITIVE DISSONANCE, by Leon Festinger, 1962 Oct p 93 [472]
- COIL, THE INDUCTION, by George Shiers, 1971 May p 80
- cold adaptations to, by Laurence Irving, 1966
 Jan p 94 [1032]
- COLD AND CLOTHING HEAT, by James B Kelley, 1956 Feb p 109
- COLD THE COMMON, by Christopher Howard Andrewes, 1951 Feb p 39
- COLD THE VIRUSES OF THE COMMON, by Christopher Howard Andrewes, 1960 Dec
- COLICINS AND THE ENERGETICS OF CELL
 MEMBRANES, by Salvador E Luria, 1975 Dec
 p 30 [1332]
- collagen, by Jerome Gross, 1961 May p 120 collagen the aging of, by Frederic Verzar, 1963 Apr p 104 [155]
- COLLECTIVE EFFECT ACCELERATORS, by Denis Keefe, 1972 Apr p 22.
- COLLICULUS OF THE BRAIN THE SUPERIOR, by Barbara Gordon, 1972 Dec p 72 [553]

- COLLIDING GALAXIES, by Rudolph Minkowski, 1956 Sept p 125
- COLLISION BETWEEN INDIA AND EURASIA THE, by Peter Molnar and Paul Tapponnier, 1977 Apr p 30 [923]
- COLOR BLINDNESS, by Alphonse Chapanis, 1951 Mar p 48
- COLOR BLINDNESS VISUAL PIGMENTS AND, by W A H Rushton, 1975 Mar p 64 [1317]
- COLOR DEFENSE BY, by N Tinbergen, 1957 Oct p 48
- COLOR, HORMONES AND SKIN, by Aaron B Lerner, 1961 July p 98
- COLOR, HOW ANIMALS CHANGE, by Lorus J and Margery J Milne, 1952 Mar p 64
- COLOR PHOTOGRAPH MAXWELL S, by Ralph M Evans, 1961 Nov p 118
- COLOR, SEEING LIGHT AND, by Ralph M Evans, 1949 Aug p 52
- COLOR TELEVISION, by Newbern Smith, 1950 Dec p 13
- COLOR, THE PERCEPTION OF SURFACE, by Jacob Beck, 1975 Aug p 62 [565]
- COLOR VISION EXPERIMENTS IN, by Edwin H
- Land, 1959 May p 84 [223] COLOR VISION THE RETINEX THEORY OF, by Edwin
- H Land, 1977 Dec p 108 [1392] COLOR VISION THREE PIGMENT, by Edward F
- MacNichol, Jr., 1964 Dec. p. 48 [197] COLORS AUTUMN, by Kenneth V. Thimann, 1950
- Oct p 40 Colors the perception of Neutral, by Hans
- Wallach, 1963 Jan p 107 [474]
- COMBAT STRESS IN, by Stanley W Davis, 1956 Mar p 31
- COMBINATORIAL MATHEMATICS OF SCHEDULING THE, by Ronald L Graham, 1978 Mar p 124 [3001]
- COMBUSTION IN ROCKETS RESONANT, by J George Sotter and Gary A Flandro, 1968 Dec p 94
- COMETS, by Fred L Whipple, 1951 July p 22 COMETS THE NATURE OF, by Fred L Whipple,
- 1974 Feb p 48
 COMETS THE TAILS OF, by Ludwig F Biermann and Rhea Lust, 1958 Oct p 44
- COMMERCE CATS AND, by Neil B Todd, 1977 Nov p 100 [1370]
- COMMISSURE, THE GREAT CEREBRAL, by R. W Sperry, 1964 Jan p 42 [174]
- COMMON COLD THE, by Christopher Howard Andrewes, 1951 Feb p 39
- Andrewes, 1951 Feb p 39
 COMMUNICATE, HOW CELLS, by Bernhard Katz,
- 1961 Sept p 209 [98]
 COMMUNICATION, 1972 Sept issue
- communication, by John R Pierce, 1972 Sept p 30 [677]
- COMMUNICATION AND FREEDOM OF EXPRESSION, by Thomas I Emerson, 1972 Sept p 163 [680]
- COMMUNICATION AND SOCIAL ENVIRONMENT, by George Gerbner, 1972 Sept p 152 [679]
- COMMUNICATION AND THE COMMUNITY, by Peter C Goldmark, 1972 Sept p 142 [678] COMMUNICATION ANIMAL, by Edward O
- Wilson, 1972 Sept p 52 [1258]
 COMMUNICATION BETWEEN ANTS AND THEIR
- GUESTS, by Bert Holldobler, 1971 Mar p 86 [1218]
 COMMUNICATION BY LASER, by Stewart E Miller,
- 1966 Jan p 19
 COMMUNICATION BY OPTICAL FIBER, by J S
 Cook, 1973 Nov p 28
- COMMUNICATION CELLULAR, by Gunther S Stent, 1972 Sept p 42 [1257]
- COMMUNICATION CHANNELS, by Henri Busignies, 1972 Sept p 98

- COMMUNICATION DOCTOR PATIENT, by Barbara M Korsch and Vida Francis Negrete, 1972 Aug p 66
- COMMUNICATION IN HONEYBEES SOUND, by Adrian M Wenner, 1964 Apr p 116 [181] COMMUNICATION INTERACTIVE HUMAN, by
- Alphonse Chapanis, 1975 Mar p 36
 COMMUNICATION INTERCELLULAR, by Werner R
 Loewenstein, 1970 May p 78 [1178]
- COMMUNICATION NETWORKS, by Hiroshi Inose, 1972 Sept p 116
- COMMUNICATION SATELLITES, by John R Pierce, 1961 Oct p 90
- COMMUNICATION TERMINALS, by Ernest R Kretzmer, 1972 Sept p 130
- COMMUNICATION THE MATHEMATICS OF, by Warren Weaver, 1949 July p 11
- COMMUNICATION THE ROLE OF MICROELECTRONICS IN, by John S Mayo, 1977 Sept p 192 [382]
- COMMUNICATION THE ROLE OF PUPIL SIZE IN, by Eckhard H Hess, 1975 Nov p 110 [567]
- COMMUNICATION VERBAL, by Roman Jakobson, 1972 Sept p 72 [547]
- COMMUNICATIONS GLOBAL SATELLITE, by Burton I Edelson, 1977 Feb p 58 [353]
- COMMUNICATIONS LIGHT WAVE, by W S Boyle, 1977 Aug p 40 [373]
- COMMUNITY COMMUNICATION AND THE, by Peter C Goldmark, 1972 Sept p 142 [678]
 COMPANIONS OF SUNLIKE STARS THE, by Helmut
- COMPANIONS OF SUNLIKE STARS THE, by Helmut A Abt, 1977 Apr p 96 [359]
- COMPETITION OF MATERIALS THE, by W O Alexander, 1967 Sept p 254
- COMPLEMENT SYSTEM THE, by Manfred M Mayer, 1973 Nov p 54 [1283]
- COMPLEXITY THEORY, by Nicholas Pippenger, 1978 June p 114 [3013]
- COMPOSITE MATERIALS ADVANCED, by Henry R Clauser, 1973 July p 36
- COMPOSITE MATERIALS THE NATURE OF, by Anthony Kelly, 1967 Sept p 160
- COMPOSITION OF THE EARTH S INTERIOR THE, by Taro Takahashi and William A Bassett, 1965 June p 100
- COMPOUND EYE OF INSECTS THE, by G Adrian Horridge, 1977 July p 108 [1364]
- COMPOUNDS IN NATURE, POLYCYCLIC AROMATIC, by Max Blumer, 1976 Mar p 34
- COMPOUNDS INCLUSION, by John F Brown, Jr, 1962 July p 82 [280]
- COMPRESSION HIGH, by Alex Taub, 1950 Feb p 16
- COMPUTER, AN ANCIENT GREEK, by Derek J de Solla Price, 1959 June p 60
- COMPUTER ANALYSIS OF PROTEIN EVOLUTION, by Margaret Oakley Dayhoff, 1969 July p 86 [1148]
- COMPUTER, CHEMISTRY BY, by Arnold C Wahl, 1970 Apr p 54
- COMPUTER CHROMOSOME ANALYSIS BY, by Robert S Ledley and Frank H Ruddle, 1966 Apr p 40 [1040]
- COMPUTER CONTROLLED ASSEMBLY, by James L Nevins and Daniel E Whitney, 1978 Feb p 62 [396]
- COMPUTER CONTROL OF ELECTRIC POWER
 SYSTEMS, by Hans Glavitsch, 1974 Nov p 34
 COMPUTER DATA THE TRANSMISSION OF, by John
- R Pierce, 1966 Sept p 144
 COMPUTER DISPLAYS, by Ivan E. Sutherland,
 1970 June p 56
- COMPUTER EXPERIMENTS IN CHEMISTRY, by Don L Bunker, 1964 July p 100
- COMPUTER EXPERIMENTS IN FLUID DYNAMICS, by Francis H Harlow and Jacob E. Fromm, 1965 Mar p 104

- COMPUTER GRAPHICS IN ARCHITECTURE, by Donald P Greenberg, 1974 May p 98 COMPUTER INPUTS AND OUTPUTS, by Ivan E Sutherland, 1966 Sept p 86
- COMPUTER LOGIC AND MEMORY, by David C Evans, 1966 Sept p 74
- COMPUTER MANAGED PARTS MANUFACTURE, by Nathan H Cook, 1975 Feb p 22
- COMPUTER MEMORIES, by Louis N Ridenour, 1955 June p 92
- COMPUTER MEMORIES INTEGRATED, by Jan A Rajchman, 1967 July p 18
- COMPUTER. MICROELECTRONICS AND THE PERSONAL, by Alan C Kay, 1977 Sept p 230 [384]
- COMPUTER, MOLECULAR MODEL BUILDING BY, by Cyrus Levinthal, 1966 June p 42 [1043]
- COMPUTER MUSIC, by Lejaren A Hiller, Jr., 1959
 Dec p 109
- COMPUTER PRIVACY CRYPTOGRAPHY AND, by Horst Feistel, 1973 May p 15
- COMPUTER PROGRAMS FOR TRANSLATION, by Victor H Yngve, 1962 June p 68
- COMPUTER SCIENCE, MICROELECTRONICS AND, by Ivan E Sutherland and Carver A Mead, 1977 Sept p 210 [383]
- COMPUTER, THE FASTEST, by D L Slotnick, 1971 Feb p 76
- COMPUTER, THE ROLE OF THE, by Louis N Ridenour, 1952 Sept p 116
- computer v Chess-Player, by Alex Bernstein and M deV Roberts, 1958 June p 96
- COMPUTERS, by Stanislaw M Ulam, 1964 Sept p 202
- COMPUTERS ADD' HOW FAST CAN, by Shmuel Winograd, 1968 Oct p 93
- COMPUTERS EARS FOR, by Edward E David, Jr, 1955 Feb p 92
- COMPUTERS GAMES LOGIC AND, by Hao Wang, 1965 Nov p 98
- COMPUTERS IN BUSINESS, by Lawrence P Lessing, 1954 Jan p 21
- COMPUTERS IN EASTERN EUROPE, by Ivan Berenyi, 1970 Oct p 102
- COMPUTERS IN EDUCATION THE USES OF, by Patrick Suppes, 1966 Sept p 206 [533]
- COMPUTERS IN ORGANIZATIONS THE USES OF, by Martin Greenberger, 1966 Sept p 192
- COMPUTERS IN SCIENCE, THE USES OF, by Anthony
 G Oettinger, 1966 Sept p 160
- COMPUTERS IN TECHNOLOGY THE USES OF, by Steven Anson Coons, 1966 Sept p 176
- COMPUTERS REDUNDANCY IN, by William H Pierce, 1964 Feb p 103 [298]
- COMPUTERS SUPERCONDUCTING, by William B Ittner III and C J Kraus, 1961 July p 124 COMPUTERS TIME SHARING ON, by R M Fano
- and F J Corbato, 1966 Sept p 128
 COMPUTING DEVICE GALILEO AND THE FIRST
- MECHANICAL, by Stillman Drake, 1976 Apr p 104
- CONCEPTS HOW CHILDREN FORM MATHEMATICAL, by Jean Piaget, 1953 Nov p 74 [420] CONCEPTS THE ORIGINS OF NUMBER, by Charles J
- Brainerd, 1973 Mar p 101 CONCERNING SOCIAL PHYSICS by John Q Stewart, 1948 May p 20
- CONCRETE PRESTRESSED, by T Y Lin, 1958 July p 25
- CONCRETE, THE CHEMISTRY OF, by Stephen Brunauer and L E Copeland, 1964 Apr p 80
- CONDITIONING AND BRAIN WAVES, by Vernon Rowland, 1959 Aug p 89
- CONDITIONING AND EMOTIONS, by Howard S Liddell, 1954 Jan p 48 [418]

- CONDUCTION ELECTRONS IN METALS, by M Ya'
 Azbel, M I Kaganov and I M Lifshitz, 1973
 Jan p 88
- CONDUCTION OF HEAT IN SOLIDS THE, by Robert L Sproull, 1962 Dec p 92
- CONFERENCES HOW PEOPLE INTERACT IN, by Robert F Bales, 1955 Mar p 31
- CONFINEMENT OF QUARKS THE, by Yoichiro Nambu, 1976 Nov p 48
- CONFIRMATION, by Wesley C Salmon, 1973 May p 75
- CONFIRMATION OF CONTINENTAL DRIFT THE, by Patrick M Hurley, 1968 Apr p 52 [874] CONFLICT AND AROUSAL, by Daniel E Berlyne,
- 1966 Aug p 82 [500]
 CONFLICT EXPERIMENTS IN GROUP, by Muzaler
- Sherif, 1956 Nov p 54 [454] CONFORMITY NATIONALITY AND, by Stanley
- Milgram, 1961 Dec p 45
- CONGENITAL DEFORMITIES, by Theodore H Ingalls, 1957 Oct p 109
- CONSERVATION LAWS OF PHYSICS THE, by Gerald Feinberg and Maurice Goldhaber, 1963 Oct p 36
- CONSTANTS THE FUNDAMENTAL PHYSICAL, by Barry N Taylor, Donald N Langenberg and William H Parker, 1970 Oct p 62 [337]
- CONSUMER PRODUCT TECHNOLOGY AND THE, by G Franklin Montgomery, 1977 Dec p 47 [703]
- CONTENT OF GALAXIES THE, by Walter Baade, 1956 Sept p 92
- CONTINENT BUILDING GEOSYNCLINES MOUNTAINS AND, by Robert S Dietz, 1972 Mar p 30 [899]
- CONTINENTAL DRIFT, by J Tuzo Wilson, 1963 Apr p 86 [868]
- CONTINENTAL DRIFT ALFRED WEGENER AND THE HYPOTHESIS OF, by A Hallam, 1975 Feb p 88 CONTINENTAL DRIFT AND EVOLUTION, by Bjorn Kurten, 1969 Mar p 54 [877]
- CONTINENTAL DRIFT AND THE FOSSIL RECORD, by A Hallam, 1972 Nov p 56 [903]
- CONTINENTAL DRIFT THE CONFIRMATION OF, by Patrick M Hurley, 1968 Apr p 52 [874] CONTINENTAL SHELF THE, by Henry C Stetson,
- 1955 Mar p 82 [808] CONTINENTAL SHELVES THE, by K O Emery, 1969 Sept p 106 [882]
- CONTINENTS THE OLDEST ROCKS AND THE GROWTH OF, by Stephen Moorbath, 1977 Mar p 92 [357]
- CONTINENTS THE ORIGIN OF, by Marshall Kay, 1955 Sept p 62 [816]
- CONTINUOUS CASTING OF STEEL THE, by Leonard V Gallagher and Bruce S Old, 1963 Dec p 74
- CONTOUR AND CONTRAST, by Floyd Rathff, 1972
 June p 90 [543]
- CONTOURS SUBJECTIVE, by Gaetano Kanizsa, 1976 Apr p 48 [570]
- CONTRACTION OF MUSCLE, THE, by H E Huxley, 1958 Nov p 66 [19]
- CONTRACTION OF OUR MUSCLES HOW WE CONTROL
 THE, by P A Merion, 1972 May p 30 [1249]
 CONTRACTION THE MECHANISM OF MUSCLUAR, by
- H E Huxley, 1965 Dec p 18 [1026] CONTRACTION THE PROTEIN SWITCH OF MUSCLE, by Carolyn Cohen, 1975 Nov p 36 [1329]
- CONTRAST AND SPATIAL FREQUENCY, by Fergus W Campbell and Lamberto Maffet, 1974 Nov p 106 [1308]
- CONTRAST CONTOUR AND, by Floyd Railiff, 1972
 June p 90 [543]
 CONTROL ANALYTIC INSTRUMENTS IN PROCESS, by
- F W Karasek, 1969 June p 112

- CONTROL AUTOMATIC, 1952 Sept. issue. CONTROL AUTOMATIC, by Ernest Nagel, 1952 Sept. p. 44.
- CONTROL DEVICES, FLUID, by Stanley W. Angrist, 1964 Dec. p. 80.
- CONTROL MECHANISMS OF THE EYE, by Derek H. Fender, 1964 July p. 24.
- CONTROL OF AIR POLLUTION, THE, by A. J. Haagen-Smit, 1964 Jan. p. 24. [618]
- control of biochemical reactions, the, by Jean-Pierre Changeux, 1965 Apr. p. 36. [1008]
- CONTROL OF BLOOD CLOTS, THE, by Shepard Shapiro, 1951 Mar. p. 18.
- CONTROL OF FERTILITY, THE, by Abraham Stone, 1954 Apr. p. 31.
- CONTROL OF FLOWERING, THE, by Aubrey W. Naylor, 1952 May p. 49. [113]
- CONTROL OF GROWTH IN PLANT CELLS, THE, by F. C. Steward, 1963 Oct. p. 104.
- CONTROL OF PLANT GROWTH, THE, by Johannes van Overbeek, 1968 July p. 75. [1111]
- CONTROL OF SENSITIVITY IN THE RETINA, THE, by
 Frank S. Werblin, 1973 Jan. p. 70. [1264]
- CONTROL OF SEX, THE, by Manuel J. Gordon, 1958 Nov. p. 87.
- CONTROL OF SHORT-TERM MEMORY, THE, by Richard C. Atkinson and Richard M. Shiffrin, 1971 Aug. p. 82. [538]
- CONTROL OF SNOW AVALANCHES, THE, by Edward R. LaChapelle, 1966 Feb. p. 92.
- control of the Luminous environment, the, by James Marston Fitch, 1968 Sept. p. 190.
- CONTROL OF THE WATER CYCLE, THE, by José P. Peixoto and M. Ali Kettani, 1973 Apr. p. 46. [907]
- CONTROL OF VIBRATION AND NOISE THE, by Theodore P. Yin, 1969 Jan. p. 98.
- CONTROL OF WALKING, THE, by Keir Pearson, 1976 Dec. p. 72. [1346]
- CONTROL SYSTEMS, by Gordon S. Brown and Donald P. Campbell, 1952 Sept. p. 56.
- CONTROL, THE ORIGINS OF FEEDBACK, by Otto Mayr, 1970 Oct. p. 110.
- CONTROL, THE PRACTICE OF QUALITY, by A. G. Dalton, 1953 Mar. p. 29.
- CONTROL, THE ROLE OF MICROELECTRONICS IN INSTRUMENTATION AND, by Bernard M. Oliver, 1977 Sept. p. 180. [381]
- CONTROL THEORY, by Richard Bellman, 1964 Sept. p. 186.
- CONTROLLED EUTECTICS, by R. Wayne Kraft, 1967 Feb. p. 86.
- CONVECTION CURRENTS IN THE EARTH'S MANTLE, by D. P. McKenzie and Frank Richter, 1976 Nov. p. 72. [921]
- CONVERSION OF ENERGY, THE, by Claude M. Summers, 1971 Sept. p. 148. [668]
- CONVERSION TO THE METRIC SYSTEM, by Lord Ritchie-Calder, 1970 July p. 17. [334]
- COOLING SYSTEMS IN IRANIAN ARCHITECTURE. PASSIVE, by Mehdi N. Bahadori, 1978 Feb. p. 144. [705]
- COOLING TOWERS, by Riley D. Woodson, 1971 May p. 70.
- COOPERATIVE ACTION OF MUSCLE PROTEINS, THE, by John M. Murray and Annemarie Weber, 1974 Feb. p. 58, [1290]
- COORDINATION OF EYE-HEAD MOVEMENTS, THE, by Emilio Bizzi, 1974 Oct. p. 100. [1305]
- COPERNICAN REVOLUTION, POETIC RESPONSES TO THE, by Margaret M. Byard, 1977 June p. 120. [367]
- COPERNICAN REVOLUTION. THE ORIGINS OF THE, by Jerome R. Ravetz, 1966 Oct. p. 88.
 COPERNICUS AND TYCHO, by Owen Gingerich,

1973 Dec. p. 86.

- COPPER, THE BIOCHEMISTRY OF, by Earl Frieden, 1968 May p. 102.
- COPROLITES OF MAN. THE, by Vaughn M. Bryant, Jr., and Glenna Williams-Dean, 1975 Jan. p. 100. [687]
- CORALS AS PALEONTOLOGICAL CLOCKS, by S. K. Runcorn, 1966 Oct. p. 26. [871]
- CORIOLIS EFFECT, THE, by James E. McDonald, 1952 May p. 72. [839]
- CORN, HIGH-LYSINE, by Dale D. Harpstead, 1971 Aug. p. 34. [1229]
- CORN, HYBRID, by Paul C. Mangelsdorf, 1951 Aug. p. 39. [1150]
- CORN, THE MYSTERY OF, by Paul C. Mangelsdorf, 1950 July p. 20. [26]
- CORONA CHEMISTRY, by John A. Coffman and William R. Browne, 1965 June p. 90.
- CORONA, THE SOLAR, by Jay M. Pasachoff, 1973 Oct. p. 68.
- CORONARY DISEASE, SURGERY FOR, by Donald B. Effler, 1968 Oct. p. 36.
- CORONARY THROMBOSIS, by Paul D. White, 1950 June p. 44.
- CORPUSCLES FORM THE SUN, by Walter Orr Roberts, 1955 Feb. p. 40.
- CORROSION FAILURE, STRESS-, by Peter R. Swann, 1966 Feb. p. 72.
- CORROSION, STUDIES IN, by G. H. Cartledge, 1956 May p. 35.
- CORRUGATE? WHY DO ROADS, by Keith B. Mather, 1963 Jan. p. 128.
- CORTEX OF THE BRAIN, THE VISUAL, by David H. Hubel, 1963 Nov. p. 54. [168]
- CORTEX OF THE CEREBELLUM, THE, by Rodolfo R. Llinás, 1975 Jan. p. 56. [1312]
- CORTISONE AND ACTH, by George W. Gray, 1950 Mar. p. 30. [14]
- COSMIC BACKGROUND RADIATION AND THE NEW AETHER DRIFT, THE, by Richard A. Muller, 1978 May p. 64. [3008]
- COSMIC BACKGROUND RADIATION, THE, by Adrian Webster, 1974 Aug. p. 26.
- COSMIC DISTANCES, PULSATING STARS AND, by Robert P. Kraft, 1959 July p. 48.
- COSMIC GAMMA-RAY BURSTS, by Ian B. Strong and Ray W. Klebesadel, 1976 Oct. p. 66.
- COSMIC MASERS, by Dale F. Dickinson, 1978 June p. 90. [3011]
- COSMIC RADIATION METEORITES AND, by I. R. Cameron, 1973 July p. 64.
- COSMIC RAYS, by George W. Gray, 1949 Mar. p. 28.
- COSMIC RAYS COME FROM? WHERE DO, by Bruno Rossi, 1953 Sept. p. 64. [239]
- COSMIC RAYS, HIGH-ENERGY, by Bruno Rossi, 1959 Nov. p. 134.
- COSMIC RAYS, SOLAR PARTICLES AND, by Kinsey A. Anderson, 1960 June p. 64.
- COSMIC RAYS, THE ASTROPHYSICS OF, by V. L. Ginzburg, 1969 Feb. p. 50.
- COSMIC RAYS, THE ORIGIN OF, by Geoffrey Burbidge, 1966 Aug. p. 32.
- COSMIC SPHERULES AND METEORITIC DUST, by Hans Pettersson, 1960 Feb. p. 123.
- COSMOLOGY AND SCIENCE, by Herbert Dingle, 1956 Sept. p. 224.
- COSMOLOGY, ANTIMATTER AND, by Hannes Alfven, 1967 Apr. p. 106. [311]
- cosmology, modern, by George Gamow, 1954 Mar. p. 54.
- COST OF WORLD ARMAMENTS, THE, by Archibald S. Alexander, 1969 Oct. p. 21. [650]
- COUNTERFEITING IN ROMAN BRITAIN, by George C. Boon, 1974 Dec. p. 120.
- COUNTERS, by Serge A. Korff, 1950 July p. 40. COUNTERS, SCINTILLATION, by George B. Collins, 1953 Nov. p. 36.

- COUNTRIES, THE CHANGING STATUS OF WOMEN IN DEVELOPED, by Judith Blake, 1974 Sept. p. 136.
- COUNTRIES, THE DEVELOPMENT OF AGRICULTURE IN DEVELOPING, by W. David Hopper, 1976 Sept. p. 196.
- COUNTRIES, THE FAMILY IN DEVELOPED, by Norman B. Ryder, 1974 Sept. p. 122.
- countries, the populations of the developed, by Charles F. Westoff, 1974 Sept. p. 108.
- COUNTRIES, THE POPULATIONS OF THE UNDERDEVELOPED, by Paul Demeny, 1974 Sept. p. 148.
- COUNTRIES, THE TRANSFER OF TECHNOLOGY TO UNDERDEVELOPED, by Gunnar Myrdal, 1974 Sept. p. 172.
- COURTSHIP, ANIMAL, by Lorus J. and Margery J. Milne, 1950 July p. 52.
- COURTSHIP OF ANIMALS, THE, by N. Tinbergen, 1954 Nov. p. 42.
- covenanters of qumran, the new, by Shemaryahu Talmon, 1971 Nov. p. 72.
- CRAB, BIOLOGICAL CLOCKS AND THE FIDDLER, by
- Frank A. Brown, Jr., 1954 Apr. p. 34. CRAB NEBULA, THE, by Jan H. Oort, 1957 Mar. p. 52.
- CRASHWORTHINESS OF AUTOMOBILES, THE, by Patrick M. Miller, 1973 Feb. p. 78.
- CRATER, THE CANADIAN METEOR, by V. B. Meen, 1951 May p. 64.
- CRATERING IN THE SOLAR SYSTEM, by W. K. Hartmann, 1977 Jan. p. 84. [351]
- CRATERING OF INDOCHINA, THE, by Arthur H.
 Westing and E. W. Pfeiffer, 1972 May p. 20.
 112481
- CRATERS, FOSSIL METEORITE, by C. S. Beals, 1958 July p. 32.
- CRATERS OF THE MOON, THE, by Ralph B. Baldwin, 1949 July p. 20.
- CREATIVE PROCESS, THE, by J. Bronowski, 1958 Sept. p. 58.
- CRICKET SONG, THE NEUROBIOLOGY OF, by David Bentley and Ronald R. Hoy, 1974 Aug. p. 34. 113021
- CRIMINAL LAW, BEHAVIORAL SCIENCE AND, by Edward J. Sachar, 1963 Nov. p. 39. [480]
- CRISES IN THE HISTORY OF LIFE, by Norman D. Newell, 1963 Feb. p. 76. [867]
- CRISIS IN SCIENCE TEACHING, A, by Fletcher G. Watson, 1954 Feb. p. 27.
- CRISIS IN U.S. ARCHAEOLOGY, A, by Frank H. H. Roberts, 1948 Dec. p. 12.
- CROCODILE THE NILE, by Anthony C. Pooley and Carl Gans, 1976 Apr. p. 114.
- CROMWELL CURRENT, THE, by John A. Knauss, 1961 Apr. p. 105.
- CROPS FORAGE, by Harlow J. Hodgson, 1976 Feb. p. 60.
- CROWS, THE LANGUAGE OF, by Hubert and Mable Frings, 1959 Nov. p. 119.
- CRUISE MISSILES, by Kosta Tsipis, 1977 Feb. p. 20. [691]
- CRUST. ATMOSPHERE AND OCEANS, THE STEADY STATE OF THE EARTH'S, by Raymond Siever, 1974 June p. 72. [914]
- CRUST OF THE EARTH, THE, by Walter H. Bucher, 1950 May p. 32.
- CRY OF THE HUMAN INFANT, THE, by Peter F. Ostwald and Philip Peltzman, 1974 Mar. p. 84. [558]
- CRYPTOBIOSIS, by John H. Crowe and Alan F. Cooper, Jr., 1971 Dec. p. 30. [1237]
 CRYPTOGRAPHY AND COMPUTER PRIVACY, by
- Horst Feistel, 1973 May p. 15. CRYPTOLOGY, MODERN, by David Kahn, 1966 July p. 38.

CRYSTAL DISPLAY DEVICES, LIQUID-, by G. H. Heilmeier, 1970 Apr. p. 100.

CRYSTAL SURFACES, THE STRUCTURE OF, by Lester H. Germer, 1965 Mar. p. 32.

CRYSTALLOGRAPHY, X-RAY, by Sir Lawrence Bragg, 1968 July p. 58. [325]

CRYSTALS, ANCIENT FLUIDS IN, by Edwin Roedder, 1962 Oct. p. 38. [854]

CRYSTALS AND ELECTRICITY, by Walter G. Cady, 1949 Dec. p. 46.

CRYSTALS AND THE FUTURE OF PHYSICS, by Philippe Le Corbeiller, 1953 Jan. p. 50.

CRYSTALS, BORON, by D. B. Sullenger and C. H. L. Kennard, 1966 July p. 96.

CRYSTALS, CHANNELING IN, by Werner Brandt, 1968 Mar. p. 90.

CRYSTALS, ELECTRIC CURRENTS IN ORGANIC, by Martin Pope, 1967 Jan. p. 86.

CRYSTALS IN METALS, ALIGNED, by B. D. Cullity, 1959 Apr. p. 125.

CRYSTALS, LIQUID, by James L. Fergason, 1964 Aug. p. 76.

CRYSTALS, OBSERVING DISLOCATIONS IN, by W. C. Dash and A. G. Tweet, 1961 Oct. p. 107.

CRYSTALS SNOW, by Charles and Nancy Knight, 1973 Jan. p. 100.

CRYSTALS, THE GROWTH OF, by Robert L. Fullman, 1955 Mar. p. 74.

CRYSTALS, THE GROWTH OF SNOW, by B. J. Mason, 1961 Jan. p. 120.

CULT, THE HOPEWELL, by Olaf H. Prufer, 1964 Dec. p. 90.

CULTIVATION OF TILAPIA, THE, by Charles F. Hickling, 1963 May p. 143.

CULTS, CARGO, by Peter M. Worsley, 1959 May p. 117.

CULTURAL EVOLUTION, by Julian H. Steward, 1956 May p. 69.

CULTURE AND CANCER, TISSUE, by John J. Biesele, 1956 Oct. p. 50.

CULTURE OF POVERTY, THE, by Oscar Lewis, 1966 Oct. p. 19. [631]

CULTURE, PICTORIAL PERCEPTION AND, by Jan B. Deregowski, 1972 Nov. p. 82. [551]

CULTURE, SCHIZOPHRENIA AND, by Marvin K. Opler, 1957 Aug. p. 103.

CULTURE, THE SOLUTREAN, by Philip E. L. Smith, 1964 Aug. p. 86.

CULTURES, PLANT TISSUE, by Philip R. White, 1950 Mar. p. 48.

cultures, vanishing, by Robert Heine-Geldern, 1957 May p. 39.

CUMAE, ANCIENT, by Raymond V. Schoder, S. J., 1963 Dec. p. 108.

CURIOSITY IN MONKEYS, by Robert A. Butler, 1954 Feb. p. 70.

CURIOUS BEHAVIOR OF THE STICKLEBACK, THE, by N. Tinbergen, 1952 Dec. p. 22. [414]

CURRENT, THE CROMWELL, by John A. Knauss, 1961 Apr. p. 105.

CURRENT, THE PERU, by Gerald S. Posner, 1954 Mar. p. 66.

CURRENTS IN THE EARTH'S MANTLE, CONVECTION, by D. P. McKenzie and Frank Richter, 1976 Nov. p. 72. [921]

CURRENTS, THE DETECTION OF NEUTRAL WEAK, by David B. Cline, A. K. Mann and Carlo Rubbia, 1974 Dec. p. 108.

CURTAIN WALL, THE, by James Marston Fitch, 1955 Mar. p. 44.

CURVATURE OF SPACE IN A FINITE UNIVERSE, THE, by J. J. Callahan, 1976 Aug. p. 90.

CURVATURE OF SPACE, THE, by P. Le Corbeiller, 1954 Nov. p. 80.

CYANATE AND SICKLE-CELL DISEASE, by Anthony Cerami and Charles M. Peterson, 1975 Apr. p. 44. [1319] CYBERNETICS, by Norbert Wiener, 1948 Nov. p. 14.

CYCLE OF THE BIOSPHERE, THE ENERGY, by George M. Woodwell, 1970 Sept. p. 64. [1190]

CYCLE OF THE EARTH, THE ENERGY, by Abraham H. Oort, 1970 Sept. p. 54. [1189]

CYCLE THE CARBON, by Bert Bolin, 1970 Sept. p. 124. [1193]

CYCLE, THE NITROGEN, by C. C. Delwiche, 1970 Sept. p. 136. [1194]

CYCLE, THE OXYGEN, by Preston Cloud and Aharon Gibor, 1970 Sept. p. 110. [1192]

CYCLE, THE STIRLING REFRIGERATION, by J. W. L. Köhler, 1965 Apr. p. 119.

CYCLE, THE WATER, by H. L. Penman, 1970 Sept. p. 98. [1191]

CYCLES, MINERAL, by Edward S. Deevey, Jr., 1970 Sept. p. 148. [1195]

CYCLES OF AN ECOSYSTEM, THE NUTRIENT, by F. Herbert Bormann and Gene E. Likens, 1970 Oct. p. 92. [1202]

CYCLES OF PLANT AND ANIMAL NUTRITION, THE, by Jules Janick, Carl H. Noller and Charles L. Rhykerd, 1976 Sept. p. 74.

CYCLES, TOXIC SUBSTANCES AND ECOLOGICAL, by George M. Woodwell, 1967 Mar. p. 24. [1066] CYCLIC AMP, by Ira Pastan, 1972 Aug. p. 97. [1256]

D

DADDY LONGLEGS, by Theodore H. Savory, 1962 Oct. p. 119. [137]

DANCE OF THE SOLIDS, THE, by John Updike, 1969 Jan. p. 130.

DARWIN, CHARLES, by Loren C. Eiseley, 1956 Feb. p. 62. [108]

DARWINISM, THE ORIGIN OF, by C. D. Darlington, 1959 May p. 60.

DARWIN'S FINCHES, by David Lack, 1953 Apr. p. 66. [22]

DARWIN'S MISSING EVIDENCE, by H. B. D. Kettlewell, 1959 Mar. p. 48. [842]

DATA PROCESSING, THE ROLE OF MICROELECTRONICS IN, by Lewis M. Terman, 1977 Sept. p. 162. [380]

DATING FISSION-TRACK, by J. D. Macdougall, 1976 Dec. p. 114.

DATING, RADIOCARBON, by Edward S. Deevey, Jr., 1952. Feb. p. 24. [811]

DAVISSON AND GERMER, by Karl K. Darrow, 1948 May p. 50.

DAVY, HUMPHRY, by L. Pearce Williams, 1960 June p. 106.

DAY, INSECTS AND THE LENGTH OF THE, by Stanley D. Beck, 1960 Feb. p. 108.

DEATH AND MEDICINE, LIFE AND, 1973 Sept.

DEATH AND MEDICINE, LIFE AND, by Kerr L. White, 1973 Sept. p. 22.

DEATH FROM STAPHYLOCOCCI, by Ian Maclean Smith, 1968 Feb. p. 84.

DEATH, HEAT, by L. V. Heilbrunn, 1954 Apr. p. 70.

DEATH OF A CIVILIZATION, THE, by Tatiana
Proskouriakoff, 1955 May p. 82.

DEATH, THE BLACK, by William L. Langer, 1964 Feb. p. 114. [619]

DEATH, THE PROBABILITY OF, by Edward S. Deevey, Jr., 1950 Apr. p. 58.

DEBATE OVER THE HYDROGEN BOMB, THE, by Herbert F. York, 1975 Oct. p. 106.

DECISION-MAKING IN THE PRODUCTION OF POWER, by Milton Katz, 1971 Sept. p. 191. [671]

DECISIONS, GAME THEORY AND, by Leonid Hurwicz, 1955 Feb. p. 78.

DECLINE OF THE HARAPPANS, THE, by George F. Dales, 1966 May p. 92.

DEEP-OCEAN FLOOR, THE, by H. W. Menard, 1969 Sept. p. 126. [883]

DEEP SCATTERING LAYERS, THE SEA'S, by Robert S. Dietz, 1962 Aug. p. 44. [866]

DEEP-SEA FLOOR, ACTIVE ANIMALS OF THE, by John D. Isaacs and Richard A. Schwartzlose, 1975 Oct. p. 84.

DEEP-SEA LAYER OF LIFE, THE, by Lionel A. Walford, 1951 Aug. p. 24.

DEEP SEA MICROBIAL LIFE IN THE, by Holger W. Jannasch and Carl O. Wirsen, 1977 June p. 42. [926]

DEER, TOO MANY, by A. Starker Leopold, 1955 Nov. p. 101.

DEFECTIVE CANCER VIRUS, A, by Harry Rubin, 1964 June p. 46. [185]

DEFECTS, INHERITED SENSE, by H. Kalmus, 1952

May p. 64. [406]
DEFENSE AGAINST BOMBER ATTACK, by Richard
D. English and Dan I. Bolef, 1973 Aug. p. 11.
DEFENSE BY COLOR, by N. Tinbergen, 1957 Oct.

DE FOREST AND THE TRIODE DETECTOR, by Robert A. Chipman, 1965 Mar. p. 92.

DEFORMATION OF METALS AT HIGH
TEMPERATURES, THE, by Hugh J. McQueen and
W. J. McGregor Tegart, 1975 Apr. p. 116.
DEFORMITIES, CONGENITAL, by Theodore H.

Ingalls, 1957 Oct. p. 109.
DEIMOS PHOBOS AND, by Joseph Veverka, 1977

Feb. p. 30. [352]
DEINSTITUTIONALIZATION AND MENTAL HEALTH

SERVICES, by Ellen L. Bassuk and Samuel Gerson, 1978 Feb. p. 46. [581] DELAYED HYPERSENSITIVITY, by Alfred J. Crowle,

1960 Apr. p. 129.

DELIVERY OF MEDICAL CARE IN CHINA THE, by Victor W. Sidel and Ruth Sidel, 1974 Apr. p. 19.

DELIVERY OF MEDICAL CARE, THE, by Sidney R. Garfield, 1970 Apr. p. 15.

DEMOCRITUS ON THE ATOM, 1949 Nov. p. 48.
DEMON, MAXWELL'S, by W. Ehrenberg, 1967 Nov.
p. 103. [317]

DENSITY GRADIENTS, by Gerald Oster, 1965 Aug. p. 70. DEPRIVATION DWARFISM, by Lytt I. Gardner,

1972 July p. 76. [1253]
DEPTH PERCEPTION, SHADOWS AND, by Eckhard

H. Hess, 1961 Mar. p. 138.

DERMATOGLYPHICS, by L. S. Penrose, 1969 Dec. p. 72. [1164]

DESALTING WATER BY FREEZING, by Asa E. Snyder, 1962 Dec. p. 41.

DESCARTES, by A. C. Crombie, 1959 Oct. p. 160.
DESEGREGATION, ATTITUDES TOWARD, by Herbert
H. Hyman and Paul B. Sheatsley, 1956 Dec.
p. 35; 1964 July p. 16. [623]

DESERT, ANCIENT MASTERS OF THE, by Michael Evenari and Dov Koller, 1956 Apr. p. 39. DESERT GROUND SQUIRRELS, by George A.

Batholomew and Jack W. Hudson, 1961 Nov. p. 107.

DESERT PLANTS, THE ECOLOGY OF, by Frits W. Went, 1955 Apr. p. 68. [114]

DESERT PUPFISH, THE, by James H. Brown, 1971 Nov. p. 104. [1236]

DESERT RAT. THE, by Knut and Bodil Schmidt-Nielsen, 1953 July p. 73.

DESERT, THE RECLAMATION OF A MAN-MADE, by Walter C. Lowdermilk, 1960 Mar. p. 54. DESERT, THE SEA THAT SPILLS INTO A, by Maurice A. Garbell, 1963 Aug. p. 94.

318

- DESERTED MEDIEVAL VILLAGE IN ENGLAND, A, by Maurice Beresford, 1976 Oct. p. 116.
- DESERTS, TRACE-ELEMENT, by A. J. Anderson and E. J. Underwood, 1959 Jan. p. 97.
- DESTRUCTION, UN V. MASS, by Trygve Lie, 1950 Jan. p. 11.
- DETECTION OF GRAVITATIONAL WAVES, THE, by Joseph Weber, 1971 May D. 22.
- DETECTION OF NEUTRAL WEAK CURRENTS, THE, by David B. Cline, A. K. Mann and Carlo Rubbia, 1974 Dec. p. 108.
- DETECTION OF UNDERGROUND EXPLOSIONS, THE, by Sir Edward Bullard, 1966 July p. 19.
- DETECTION OF UNDERGROUND EXPLOSIONS, THE, by L. Don Leet, 1962 June p. 55.
- DETECTOR, DE FOREST AND THE TRIODE, by Robert A. Chipman, 1965 Mar. p. 92.
- DETERGENTS, SYNTHETIC, by Lawrence M. Kushner and James I. Hoffman, 1951 Oct. p. 26.
- DEUTERIUM IN THE UNIVERSE, by Jay M.
 Pasachoff and William A. Fowler, 1974 May
 p. 108.
- DEVELOPED COUNTRIES, THE CHANGING STATUS OF WOMEN IN, by Judith Blake, 1974 Sept. p. 136. DEVELOPED COUNTRIES, THE FAMILY IN, by
- Norman B. Ryder, 1974 Sept. p. 122.

 DEVELOPED COUNTRIES, THE POPULATIONS OF THE,
- by Charles F. Westoff, 1974 Sept. p. 108.
 DEVELOPING COUNTRIES, THE DEVELOPMENT OF
 AGRICULTURE IN, by W. David Hopper, 1976
 Sept. p. 196.
- DEVELOPMENT, EARLY EXPERIENCE AND EMOTIONAL, by Victor H. Denenberg, 1963 June p. 138. [478]
- DEVELOPMENT, EDUCATION FOR, by Frederick
- Harbison, 1963 Sept. p. 140.

 DEVELOPMENT OF AGRICULTURE IN DEVELOPING
 COUNTRIES, THE, by W. David Hopper, 1976
 Sept. p. 196.
- DEVELOPMENT OF BRAZIL, THE, by Celso Furtado, 1963 Sept. p. 208.
- DEVELOPMENT OF CANCER, ON THE, by Harry S. N. Greene, 1948 Dec. p. 40.
- DEVELOPMENT OF INDIA, THE, by Pitambar Pant, 1963 Sept. p. 189.
- DEVELOPMENT OF NIGERIA, THE, by Wolfgang F. Stolper, 1963 Sept. p. 168.
- DEVELOPMENT OF THE IMMUNE SYSTEM, THE, by Max D. Cooper and Alexander R. Lawton III, 1974 Nov. p. 58. [1306]
- DEVELOPMENT OF THE U.S. SOUTH, THE, by Arthur Goldschmidt, 1963 Sept. p. 224.
- DEVELOPMENT, REPETITIVE PROCESSES IN CHILD, by T. G. R. Bower, 1976 Nov. p. 38. [572]
- DEVELOPMENT, TECHNOLOGY AND ECONOMIC, 1963 Sept. issue.
- DEVELOPMENT, TECHNOLOGY AND ECONOMIC, by Asa Briggs, 1963 Sept. p. 52.
- DEVELOPMENT, THE PLANNING OF, by Edward S. Mason, 1963 Sept. p. 235.

 DEVELOPMENT THE PLANNING OF, by Edward S.
- DEVELOPMENT. THE STRUCTURE OF, by Wassily W. Leontief, 1963 Sept. p. 148. [617]
 DEVICES, FLUID CONTROL, by Stanley W. Angrist,
- 1964 Dec. p. 80.
 DIAGNOSIS, ENZYMES IN MEDICAL, by Felix
- DIAGNOSIS, ENZYMES IN MEDICAL, by Felix Wróblewski, 1961 Aug. p. 99.
- DIAGNOSIS OF GENETIC DISEASE, PRENATAL, by Theodore Friedmann, 1971 Nov. p. 34. [1234] DIALECTS IN THE LANGUAGE OF THE BEES, by Karl von Frisch, 1962 Aug. p. 78. [130]
- DIAMOND AT LOW PRESSURE, THE SYNTHESIS OF, by B. V. Derjaguin and D. B. Fedoseev, 1975 Nov. p. 102.
- DIAMONDS IN METEORITES, by Edward Anders, 1965 Oct. p. 26.

- DIAMONDS, SYNTHETIC, by P. W. Bridgman, 1955 Nov. p. 42.
- DIESEL AND HIS RATIONAL ENGINE, RUDOLF, by Lynwood Bryant, 1969 Aug. p. 108.
- DIFFERENTIATE? HOW DO CELLS, by C. H. Waddington, 1953 Sept. p. 108.
- DIFFERENTIATION IN SOCIAL AMOEBAE, by John Tyler Bonner, 1959 Dec. p. 152.
- DIFFERENTIATION, METAMORPHOSIS, POLYMORPHISM, by V. B. Wigglesworth, 1959 Feb. p. 100. [63]
- DIFFERENTIATION OF CELLS, FEEDBACK IN THE, by S. Meryl Rose, 1958 Dec. p. 36.
- DIFFERENTIATION, PHASES IN CELL, by Norman K. Wessells and William J. Rutter, 1969 Mar. p. 36. [1136]
- DIFFERENTIATION, TRANSPLANTED NUCLEI AND CELL, by J. B. Gurdon, 1968 Dec. p. 24. [1128] DIFFUSION IN METALS, by B. D. Cullity, 1957 May. 103.
- DIG, HISTORY OF A, by Louis M. Stumer, 1955 Mar. p. 98.
- DIGEST ITSELF, WHY THE STOMACH DOES NOT, by Horace W. Davenport, 1972 Jan. p. 86. [1240] DIGESTING ENZYMES, PROTEIN-, by Hans Neurath, 1964 Dec. p. 68.
- DIGITS. THE PECULIAR DISTRIBUTION OF FIRST, by Ralph A. Raimi, 1969 Dec. p. 109.
- DIMENSIONS OF HUMAN HUNGER, THE, by Jean Mayer, 1976 Sept. p. 40.
- DIMENSIONS OF STAIRS, THE, by James Marston Fitch, John Templer and Paul Corcoran, 1974 Oct. p. 82.
- DIMENSIONS OF WORLD POVERTY, THE, by David Simpson, 1968 Nov. p. 27. [640]
- DINOSAUR RENAISSANCE, by Robert T. Bakker, 1975 Apr. p. 58. [916]
- DIODE LASERS, A NEW CLASS OF, by Morton B. Panish and Izuo Hayashi, 1971 July p. 32.
- DIODES, TECHNOLOGY ASSESSMENT AND MICROWAVE, by Raymond Bowers and Jeffrey Frey, 1972 Feb. p. 13.
- DIPHTHERIA TOXIN, THE, by A. M. Pappenheimer, Jr., 1952 Oct. p. 32.
- DIRECT REDUCTION OF IRON ORE, THE, by Jack Robert Miller, 1976 July p. 68.
- DISADVANTAGED, TEACHER EXPECTATIONS FOR THE, by Robert Rosental and Lenore F. Jacobson, 1968 Apr. p. 19. [514]
- DISARMAMENT, STEPS TOWARD, by P. M. S. Blackett, 1962 Apr. p. 45.
- DISARMAMENT, THE ECONOMIC EFFECTS OF, by Wassily W. Leontief and Marvin Hoffenberg, 1961 Apr. p. 47. [611]
- DISARMAMENT, THE INTERNATIONAL CONTROL OF, by Alva Myrdal, 1974 Oct. p. 21.
- DISCLINATIONS, by William F. Harris, 1977 Dec. p. 130. [393]
- DISCOVERIES IN NITROGEN FIXATION, by Martin D. Kamen, 1953 Mar. p. 38.
- DISCOVERY OF DNA, THE, by Alfred E. Mirsky, 1968 June p. 78. [1109]
- DISCOVERY OF FISSION, THE, by Otto Hahn, 1958 Feb. p. 76.
- DISCOVERY OF ICARUS, THE, by Robert S. Richardson, 1965 Apr. p. 106.
- DISCOVERY OF STELLAR ABERRATION, THE, by Albert B. Stewart, 1964 Mar. p. 100.
- DISCOVERY, PREMATURITY AND UNIQUENESS IN SCIENTIFIC, by Gunther S. Stent, 1972 Dec. p. 84. [1261]
- DISCRIMINATION, EXPERIMENTS IN, by Norman Guttman and Harry I. Kalish, 1958 Jan. p. 77. [403]
- DISCRIMINATION, EXPERIMENTS IN INTERGROUP, by Henri Tajfel, 1970 Nov. p. 96. [530]

- DISEASE, ALLERGIC MECHANISMS IN NERVOUS, by Elvin A. Kabat, 1949 July p. 16.
- DISEASE, ANIMAL INFECTIONS AND HUMAN, by Meir Yoeli, 1960 May p. 161.
- DISEASE, CHROMOSOMES AND, by A. G. Bearn and James L. German III, 1961 Nov. p. 66. [150]
- DISEASE, CYANATE AND SICKLE-CELL, by Anthony Cerami and Charles M. Peterson, 1975 Apr. p. 44. [1319]
- DISEASE, FLIES AND, by Bernard Greenberg, 1965
 July p. 92.
- DISEASE, HOW THE IMMUNE RESPONSE TO A VIRUS CAN CAUSE, by Abner Louis Notkins and Hilary Koprowski, 1973 Jan. p. 22. [1263]
- DISEASE, LYSOSOMES AND, by Anthony Allison, 1967 Nov. p. 62. [1085]
- DISEASE, PRENATAL DIAGNOSIS OF GENETIC, by Theodore Friedmann, 1971 Nov. p. 34. [1234]
- DISEASE, PSYCHOLOGICAL FACTORS IN STRESS AND, by Jay M. Weiss, 1972 June p. 104. [544]
- DISEASE, PURSUIT OF A, by Geoffrey Dean, 1957 Mar. p. 133.
- DISEASE RESISTANCE IN PLANTS, A MECHANISM OF, by Gary A. Strobel, 1975 Jan. p. 80. [1313] DISEASE, SURGERY FOR CORONARY, by Donald B. Effler, 1948 Oct. p. 36.
- DISEASE, THE CHEMISTRY OF HEREDITARY, by A. G. Bearn, 1956 Dec. p. 126.
- DISEASE, THE EPIDEMIOLOGY OF MENTAL, by Ernest M. Gruenberg, 1954 Mar. p. 38. [441] DISEASE, THE GEOGRAPHY OF, by Jaques M. May, 1953 Feb. p. 22.
- DISEASES, ANTIBIOTICS AGAINST PLANT, by David Pramer, 1955 June p. 82.
- DISEASES, THE KINSHIP OF ANIMAL AND HUMAN, by
- Robert W. Leader, 1967 Jan. p. 110.
 DISLOCATIONS IN CRYSTALS, OBSERVING, by W. C.
- Dash and A. G. Tweet, 1961 Oct. p. 107. DISLOCATIONS IN METALS, by Frank B. Cuff, Jr.,
- and L. McD. Schetky, 1955 July p. 80. [204] DISORIENTED FIGURES, THE PERCEPTION OF, by Irvin Rock, 1974 Jan. p. 78. [557]
- DISPLAY DEVICES, LIQUID-CRYSTAL, by G. H. Heilmeier, 1970 Apr. p. 100.
- DISPLAYS, COMPUTER, by Ivan E. Sutherland, 1970 June p. 56.
- DISPOSAL OF RADIOACTIVE WASTES FROM FISSION REACTORS, THE, by Bernard L. Cohen, 1977 June p. 21, 13641
- June p. 21. [364]
 DISPOSAL OF WASTE IN THE OCEAN, THE, by
 Willard Bascom, 1974 Aug. p. 16.
- DISSONANCE, COGNITIVE, by Leon Festinger, 1962 Oct. p. 93. [472]
- DISTRIBUTION OF GALAXIES, THE, by Jerzy Neyman and Elizabeth L. Scott, 1956 Sept. p. 187.
- DISTRIBUTION OF MAN, THE, by William W. Howells, 1960 Sept. p. 112. [604]
- DIVERSITY, THE CAUSES OF BIOLOGICAL, by Bryan Clarke, 1975 Aug. p. 50. [1326]
- DIVING WOMEN OF KOREA AND JAPAN, THE, by Suk Ki Hong and Hermann Rahn, 1967 May p. 34. [1072]
- DNA DEBATE, THE RECOMBINANT-, by Clifford Grobstein, 1977 July p. 22. [1362]
- DNA, HOW ACTINOMYCIN BINDS TO, by Henry M. Sobell, 1974 Aug. p. 82. [1303]
- DNA IN BACTERIA, THE RECOGNITION OF, by Salvador E. Luria, 1970 Jan. p. 88. [1167] DNA INTO THE DNA OF THE HOST CELL, HOW VIRUSES INSERT THEIR, by Allan M. Campbell, 1976 Dec. p. 102. [1347]
- DNA OPERATOR-REPRESSOR SYSTEM, A, by Tom Maniatis and Mark Ptashne, 1976 Jan. p. 64. [1333]
- DNA, REPEATED SEGMENTS OF, by Roy J. Britten and David E. Kohne, 1970 Apr. p. 24. [1173]

DNA, SINGLE-STRANDED, by Robert L. Sinsheimer, 1962 July p. 109. [128]

DNA SYNTHESIS, RNA-DIRECTED, by Howard M. Temin, 1972 Jan. p. 24. [1239]

DNA. THE DISCOVERY OF, by Alfred E. Mirsky, 1968 June p. 78. [1109]

DNA, THE NUCLEOTIDE SEQUENCE OF VIRAL, by John C. Fiddes, 1977 Dec. p. 54. [1374] DNA, THE REPAIR OF, by Philip C. Hanawalt and

Robert H. Haynes, 1967 Feb. p. 36. DNA. THE SYNTHESIS OF, by Arthur Kornberg, 1968 Oct. p. 64. [1124]

DO INFANTS THINK?, by Jerome Kagan, 1972 Mar. p. 74. [542]

DOCTOR-PATIENT COMMUNICATION, by Barbara M. Korsch and Vida Francis Negrete, 1972 Aug. p. 66.

DOCTORS, by Alan Gregg, 1951 Sept. p. 79.
DOUBLE STARS, by Otto Struve, 1949 Oct. p. 42.
DOUBLE STARS X-RAY-EMITTING, by Herbert
Gursky and Edward P. J. van den Heuvel,
1975 Mar. p. 24.

DOVES. THE REPRODUCTIVE BEHAVIOR OF, RING, by Daniel S. Lehrman, 1964 Nov. p. 48. [488]
DREAM ABOUT, WHAT PEOPLE, by Calvin S. Hall, 1951 May p. 60.

DREAMING, PATTERNS OF, by Nathaniel Kleitman, 1960 Nov. p. 82. [460]

DREAMS, THE NATURE OF, by Erich Fromm, 1949 May p. 44. [495]

DRILLING FOR PETROLEUM, by Sullivan S. Marsden, Jr., 1958 Nov. p. 99.

DRIP IRRIGATION, by Kobe Shoji, 1977 Nov. p. 62. [1371]

DRUG RESISTANCE, INFECTIOUS, by Tsutomu Watanabe, 1967 Dec. p. 19.

DRUG RESISTANCE, THE MOLECULE OF INFECTIOUS, by Royston C. Clowes, 1973 Apr. p. 18. [1269] DRUGS, ANALGESIC, by Marshall Gates, 1966 Nov. p. 131. [304]

DRUGS, RADIOACTIVE TUBERCULOSIS, by Lloyd J. Roth and Roland W. Manthei, 1956 Nov. p. 135.

DRUGS, SPIDER WEBS AND, by Peter Witt, 1954 Dec. p. 80.

DRUGS, THE HALLUCINOGENIC, by Frank Barron, Murray E. Jarvik and Sterling Bunnell, Jr., 1964 Apr. p. 29. [483]

DRUGS, THE IMITATIVE, by Richard O. Roblin, Jr., 1951 Apr. p. 60.

DRUGS, THE NEW PSYCHIATRIC, by Harold E. Himwich, 1955 Oct. p. 80.

DRUGS, "TRUTH", by Lawrence Zelic Freedman, 1960 Mar. p. 145. [497]

DRUMS OF AFRICA, THE TALKING, by John F. Carrington, 1971 Dec. p. 90.

DUAL-RESONANCE MODELS OF ELEMENTARY PARTICLES, by John H. Schwarz, 1975 Feb. p. 61.

DUBLIN, VISIT TO, by Leopold Infeld, 1949 Oct. p. 11.

DUET-SINGING BIRDS, by W. H. Thorpe, 1973 Aug. p. 70. [1279]

DUNG, THE BIOLOGICAL CONTROL OF, by D. F. Waterhouse, 1974 Apr. p. 100.

DUNKERS. THE GENETICS OF THE, by H. Bentley

Glass, 1953 Aug. p. 76. [1062]
DUPLICATION OF CHROMOSOMES, THE, by J.

Herbert Taylor, 1958 June p. 36. [60] DUST CLOUD HYPOTHESIS, THE, by Fred L. Whipple, 1948 May p. 34.

DUST STORMS, by Sherwood B. Idso, 1976 Oct. p. 108.

DUST STORMS OF 1948. THE, by H. H. Finnell, 1948
Aug. p. 7.

DUST STORMS OF 1954. THE, by H. H. Finnell, 1954 July p. 25. DWARF GALAXIES, by Paul W. Hodge, 1964 May p. 78.

DWARFISM, DEPRIVATION, by Lytt I. Gardner, 1972 July p. 76. [1253]

DYING, by Robert S. Morison, 1973 Sept. p. 54.
DYING OAKS, THE, by George S. Avery, Jr., 1957
May p. 112.

DYING STARS, by Jesse L. Greenstein, 1959 Jan. p. 46. [216]

DYNAMIC MODEL OF CELL MEMBRANES, A, by Roderick A. Capaldi, 1974 Mar. p. 26. [1292] DYNAMICS, COMPUTER EXPERIMENTS IN FLUID, by Francis H. Harlow and Jacob Fromm, 1965 Mar. p. 104.

DYNAMICS OF INHIBITION, THE, by Ralph W. Gerard, 1948 Sept. p. 44.

DYNAMICS OF THE ANDROMEDA NEBULA. THE, by Vera C. Rubin, 1973 June p. 30.

DYNAMICS OF THE ARMS RACE, THE, by George W. Rathjens, 1969 Apr. p. 15. [642]

DYNAMO, FROM FARADAY TO THE, by Harold I. Sharlin, 1961 May p. 107.

DYNAMO, THE EARTH AS A, by Walter M. Elsasser, 1958 May p. 44.

E

EAR. THE, by Georg von Békésy, 1957 Aug. p. 66. [44]

EARLIER AGRICULTURAL REVOLUTION, AN, by Wilhelm G. Solheim II, 1972 Apr. p. 34. [675] EARLIER MATURATION IN MAN, by J. M. Tanner, 1968 Jan. p. 21.

EARLIEST APES, THE, by Elwyn L. Simons, 1967 Dec. p. 28. [636]

EARLIEST MAYA, THE, by Norman Hammond, 1977 Mar. p. 116. [1355]

EARLIEST PRECURSOR OF WRITING, THE, by Denise
Schmandt-Besserat, 1978 June p. 50. [708]

EARLY AMERICANS, THE, by Frank H. H. Roberts, 1951 Feb. p. 15.

EARLY CITY IN IRAN, AN, by C. C. and Martha Lamberg-Karlovsky, 1971 June p. 102. [660] EARLY CONCEPTS OF THE SENSES AND THE MIND, by

A. C. Crombie, 1964 May p. 108. [184] EARLY ENERGY CRISIS AND ITS CONSEQUENCES. AN, by John U. Nef, 1977 Nov. p. 140. [391]

EARLY ENVIRONMENT, by William R. Thompson and Ronald Melzack, 1956 Jan. p. 38. [469]

EARLY EXPERIENCE AND EMOTIONAL
DEVELOPMENT, by Victor H. Denenberg, 1963

June p. 138. [478]

EARLY FARMING VILLAGE IN TURKEY, AN, by Halet

Çambel and Robert J. Braidwood, 1970 Mar.

p. 50.

EARLY MAN IN AFRICA, by J. Desmond Clark, 1958 July p. 76.

EARLY MAN IN PERU, by Edward P. Lanning, 1965 Oct. p. 68.

EARLY MAN IN SOUTH AMERICA, by Edward P.
Lanning and Thomas C. Patterson, 1967 Nov.
n. 44.

EARLY MAN IN THE ANDES, by Richard S. MacNeish, 1971 Apr. p. 36.

EARLY MAN IN THE ANDES, by William J. Mayer-Oakes, 1963 May p. 116.

EARLY MAN IN THE ARCTIC, by J. L. Giddings, Jr., 1954 June p. 82.

EARLY MAN IN THE WEST INDIES, by José M.
Cruxent and Irving Rouse, 1969 Nov. p. 42.
16521

EARLY METALLURGY IN THE NEW WORLD, by Dudley T. Easby, Jr., 1966 Apr. p. 72. EARLY NEOLITHIC VILLAGE IN GREECE, AN, by Robert J. Rodden, 1965 Apr. p. 82. EARLY RELATIVES OF MAN, THE, by Elwyn L. Simons, 1964 July p. 50. [622] EARLY VIEWS ON FORCES BETWEEN ATOMS. by

EARLY VIEWS ON FORCES BETWEEN ATOMS, by Leslie Holliday, 1970 May p. 116.

EARS FOR COMPUTERS, by Edward E. David, Jr., 1955 Feb. p. 92.

EARTH AS A DYNAMO, THE, by Walter M. Elsasser, 1958 May p. 44.

EARTH FROM SPACE, THE, 1955 Sept. p. 109. EARTH IN THE SUN'S ATMOSPHERE, THE, by Sydney Chapman, 1959 Oct. p. 64.

EARTH-MOON SYSTEM, TIDES AND THE, by Peter Goldreich, 1972 Apr. p. 42.

EARTH, RADIATION BELTS AROUND THE, by James A. Van Allen, 1959 Mar. p. 39.

EARTH, RESONANT VIBRATIONS OF THE, by Frank Press, 1965 Nov. p. 28.

EARTH STRAINS BY LASER, MEASURING, by Victor Vali, 1969 Dec. p. 88.

EARTH, THE, by Raymond Siever, 1975 Sept. p. 82.

EARTH, THE CRUST OF THE, by Walter H. Bucher, 1950 May p. 32.

EARTH, THE ENERGY CYCLE OF THE, by Abraham H. Oort, 1970 Sept. p. 54. [1189]

EARTH, THE ENERGY RESOURCES OF THE, by M. King Hubbert, 1971 Sept. p. 60. [663]

EARTH, THE INTERIOR OF THE, by K. E. Bullen, 1955 Sept. p. 56. [804]

EARTH, THE ORIGIN OF THE, by Harold C. Urey,

1952 Oct. p. 53. [833]
EARTH, THE PLANET, 1955 Sept. issue.

EARTH, THE ROTATION OF THE, by D. E. Smylie and L. Mansinha, 1971 Dec. p. 80. [897]

EARTH, THE SHAPE OF THE, by Desmond King-Hele, 1967 Oct. p. 67. [873]

EARTHQUAKE PREDICTION, by Frank Press, 1975 May p. 14. [917]

EARTHQUAKE WAVES, LONG, by Jack Oliver, 1959 Mar. p. 131.

EARTHQUAKES, THE MOTION OF THE GROUND IN, by David M. Boore, 1977 Dec. p. 68. [928]

EARTH'S ATMOSPHERE, ARTIFICIAL SATELLITES AND THE, by Robert Jastrow, 1959 Aug. p. 37. [851] EARTH'S CRUST, ATMOSPHERE AND OCEANS, THE

STEADY STATE OF THE, by Raymond Siever, 1974 June p. 72. [914]

EARTH'S ELECTRICITY, THE, by James E. McDonald, 1953 Apr. p. 32.

EARTH'S GRAVITY, THE, by Weikko A. Heiskanen, 1955 Sept. p. 164. [812]

EARTH'S HEAT, THE, by A. E. Benfield, 1950 Dec. p. 54.

EARTH'S INTERIOR, THE COMPOSITION OF THE, by Taro Takahashi and William A. Bassett, 1965 June p. 100.

EARTH'S INTERIOR, THE FINE STRUCTURE OF THE, by Bruce A. Bolt, 1973 Mar. p. 24. [906]

EARTH'S INTERIOR, THE FLOW OF HEAT FROM THE, by Henry N. Pollack and David S. Chapman, 1977 Aug. p. 60. [927]

EARTH'S MAGNETIC FIELD, REVERSALS OF THE, by Allan Cox, G. Brent Dalrymple and Richard R. Doell, 1967 Feb. p. 44.

EARTH'S MAGNETISM. THE, by A. E. Benfield, 1950 June p. 20.

EARTH'S MAGNETISM, THE, by S. K. Runcorn, 1955 Sept. p. 152.

EARTH'S MANTLE. CONVECTION CURRENTS IN THE, by D. P. McKenzie and Frank Richter, 1976 Nov. p. 72. [921]

EARTH'S MANTLE, THE, by Peter J. Wyllie, 1975 Mar. p. 50. [915]

EARTH'S MANTLE, THE PLASTIC LAYER OF THE, by Don L. Anderson, 1962 July p. 52. [855]

- EARTH'S SURFACE HOT SPOTS ON THE, by Kevin C. Burke and J. Tuzo Wilson, 1976 Aug. p. 46. [920]
- EARTH'S URANIUM, THE, by Paul F. Kerr, 1951 May p. 17.
- EAST PACIFIC RISE, THE, by Henry W. Menard, 1961 Dec. p. 52.
- EASTER ISLAND, THE "TALKING BOARDS" OF, by Thomas S. Barthel, 1958 June p. 61.
- EASTER ISLAND, THREE MYSTERIES OF, by Werner Wolff, 1949 Feb. p. 50.
- EASTERN EUROPE, COMPUTERS IN, by Ivan Berenyi, 1970 Oct. p. 102.
- ECHOES, PHOTON, by Sven R. Hartmann, 1968 Apr. p. 32.
- ECLIPSES, A FAMILY OF SOLAR, by Richard M. Sutton, 1954 Feb. p. 36.
- ECOLOGICAL CHEMISTRY, by Lincoln Pierson Brower, 1969 Feb. p. 22. [1133]
- ECOLOGICAL CYCLES, TOXIC SUBSTANCES AND, by George M. Woodwell, 1967 Mar. p. 24. [1066] ECOLOGICAL EFFECTS OF RADIATION, THE, by George M. Woodwell, 1963 June p. 40. [159] ECOLOGY OF DESERT PLANTS, THE, by Frits W.

Went, 1955 Apr. p. 68. [114]

- ECOLOGY OF FIRE, THE, by Charles F. Cooper, 1961 Apr. p. 150. [1099]
- ECOLOGY OF THE HIGH HIMALAYAS, THE, by
 Lawrence W. Swan, 1961 Oct. p. 68.

 FCONOMIC ASSISTANCE POLITICAL FLOTTORS IN
- ECONOMIC ASSISTANCE, POLITICAL FACTORS IN, by Gunnar Mytdal, 1972 Apr. p. 15.
- ECONOMIC DEVELOPMENT, TECHNOLOGY AND, 1963 Sept. issue.
- economic development, technology and, by Asa Briggs, 1963 Sept. p. 52.
- ECONOMIC EFFECTS OF DISARMAMENT, THE, by Wassily W. Leontief and Marvin Hoffenberg, 1961 Apr. p. 47, [611]
- ECONOMIC GEOGRAPHY OF ENERGY, THE, by Daniel B. Luten, 1971 Sept. p. 164. [669] ECONOMIC GROWTH IN THE U.S.S.R., by Raymond
- P. Powell, 1968 Dec. p. 17. ECONOMIC GROWTH OF JAPAN, THE, by James C. Abegglen, 1970 Mar. p. 31.
- ECONOMIC INDICATORS, THE ANALYSIS OF, by Geoffrey H. Moore, 1975 Jan. p. 17.
- ECONOMIC PSYCHOLOGY, by George Katona, 1954 Oct. p. 31. [452]
- ECONOMICS, INPUT-OUTPUT, by Wassily W. Leontief, 1951 Oct. p. 15.
- ECONOMICS, METROPOLITAN MEDICAL, by Nora K. Piore, 1965 Jan. p. 19.
- ECONOMICS OF ATOMIC POWER, THE, by Sam H. Schurr, 1951 Jan. p. 32.
- ECONOMICS OF TECHNOLOGICAL CHANGE, THE, by Anne P. Carter, 1966 Apr. p. 25. [629]
- ECONOMY OF THE U.S., THE PLURALISTIC, by Eli Ginzberg, 1976 Dec. p. 25.
- ECONOMY, THE HYDROGEN, by Derek P. Gregory, 1973 Jan. p. 13.
- ECONOMY, THE MEDICAL, by Martin S. Feldstein, 1973 Sept. p. 151.
- ECONOMY. THE STRUCTURE OF THE U.S., by Wassily W. Leontief, 1965 Apr. p. 25. [624] ECOSPHERE, THE, by LaMont C. Cole, 1958 Apr. p. 83. [144]
- ECOSYSTEM IN THE SERENGETI, A GRAZING, by Richard H. V. Bell, 1971 July p. 86. [1228] ECOSYSTEM, THE FLOW OF ENERGY IN A FOREST, by
- James R. Gosz, Richard T. Holmes, Gene E. Likens and F. Herbert Bormann, 1978 Mar. p. 92. [1384]
- ECOSYSTEM, THE NUTRIENT CYCLES OF AN, by F. Herbert Bormann and Gene E. Likens, 1970 Oct. p. 92. [1202]
- EDIBLE SNAIL, THE, by Jean Cadart, 1957 Aug. p. 113.

- EDUCATION FOR DEVELOPMENT, by Frederick Harbison, 1963 Sept. p. 140.
- EDUCATION, THE USES OF COMPUTERS IN, by Patrick Suppes, 1966 Sept. p. 206. [533]
- EELGRASS CATASTROPHE, THE, by Lorus J. and Margery J. Milne, 1951 Jan. p. 52.
- EFFECTS OF LIGHT ON THE HUMAN BODY, THE, by Richard J. Wurtman, 1975 July p. 68. [1325]
- Richard J. Wurtman, 1975 July p. 68. [1325] EFFECTS OF OBSERVING VIOLENCE, THE, by
- Leonard Berkowitz, 1964 Feb. p. 35. [481] EFFECTS OF RADIATION ON SOLIDS, THE, by
- Frederick Setitz and Eugene P. Wigner, 1956 Aug. p. 76. [245]
- EFFECTS OF SMOKING, THE, by E. Cuyler Hammond, 1962 July p. 39.
- EFFICIENCY OF ALGORITHMS, THE, by Harry R. Lewis and Christos H. Papadimitriou, 1978 Jan. p. 96. [395]
- EGG, FERTILIZATION OF THE, by Alberto Monroy, 1950 Dec. p. 46.
- EGGS IN THE LABORATORY, MAMMALIAN, by R. G. Edwards, 1966 Aug. p. 72. [1047]
- EGGS RABBIT HEMOGLOBIN FROM FROG, by
- Charles Lane, 1976 Aug. p. 60. [1343] EGGSHELL IS MADE, HOW AN, by T. G. Taylor, 1970 Mar. p. 88. [1171]
- EGGSHELLS, INSECT, by H. E. Hinton, 1970 Aug. p. 84. [1187]
- EIDETIC IMAGES, by Ralph Norman Haber, 1969 Apr. p. 36. [522]
- EINSTEIN, ALBERT: 1879-1955, tributes by Niels. Bohr and I. I. Rabi, 1955 June p. 31.
- EINSTEIN, AN INTERVIEW WITH, by I. Bernard Cohen, 1955 July p. 68.
- EINSTEIN, THE INFLUENCE OF ALBERT, by Banesh Hoffmann, 1949 Mar. p. 52.
- ELAND AND THE ORYX, THE, by C. R. Taylor, 1969 Jan. p. 88.
- ELASTIC FIBERS IN THE BODY, by Russell Ross and Paul Bornstein, 1971 June p. 44. [1225]
- ELECTION. TELEVISION AND THE, by Angus Campbell, Gerald Gurin and Warren E. Miller, 1953 May p. 46.
- ELECTORAL SWITCH OF 1952, THE, by Angus Campbell, Gerald Gurin and Warren E. Miller, 1954 May p. 31.
- ELECTRIC AUTOMOBILE, THE, by George A. Hoffman, 1966 Oct. p. 34.
- ELECTRIC CURRENTS IN ORGANIC CRYSTALS, by Martin Pope, 1967 Jan. p. 86.
- ELECTRIC FIELDS, NONUNIFORM, by Herbert A. Pohl, 1960 Dec. p. 106.
- ELECTRIC FISHES, by Harry Grundfest, 1960 Oct. p. 115.
- ELECTRIC LIGHT, THE INVENTION OF THE, by Matthew Josephson, 1959 Nov. p. 98.
- ELECTRIC LOCATION BY FISHES, by H. W. Lissmann, 1963 Mar. p. 50. [152]
- electric-power systems, computer control of, by Hans Glavitsch, 1974 Nov. p. 34.
- ELECTRICAL ACTIVITY OF THE BRAIN, THE, by W. Grey Walter, 1954 June p. 54.
- ELECTRICAL EFFECTS IN BONE, by C. Andrew L. Bassett, 1965 Oct. p. 18.
- ELECTRICAL EVENTS IN VISION, by Lorus J. and
- Margery J. Milne, 1956 Dec. p. 113.
 ELECTRICAL PROPERTIES OF MATERIALS, THE, by
- Henry Ehrenreich, 1967 Sept. p. 194. ELECTRICAL PROPULSION IN SPACE, by Gabriel
- Giannini, 1961 Mar. p. 57.
 ELECTRICALLY CONTROLLED BEHAVIOR, by Erich
 von Holst and Ursula von Saint Paul, 1962
 Mar. p. 50. [464]
- ELECTRICITY, ANIMAL, by H. B. Steinbach, 1950 Feb. p. 40.
- ELECTRICITY, CRYSTALS AND, by Walter G. Cady, 1949 Dec. p. 46.

- ELECTRICITY IN PLANTS, by Bruce I. H. Scott, 1962 Oct. p. 107. [136]
- ELECTRICITY IN SPACE, by Hannes Alfvén, 1952 May p. 26.
- ELECTRICITY, THE EARTH'S, by James E. McDonald, 1953 Apr. p. 32.
- ELECTRICITY, THE PHOTOVOLTAIC GENERATION OF, by Bruce Chalmers, 1976 Oct. p. 34.
- ELECTRIC-POWER SYSTEMS COMPUTER CONTROL OF, by Hans Glavitsch. 1974 Nov. p. 34.
- ELECTROCARDIOGRAM, THE, by Allen M. Scher, 1961 Nov. p. 132.
- ELECTROCHEMICAL MACHINING, by James P. Hoare and Mitchell A Laboda, 1974 Jan. p. 30.
- ELECTROLUMINESCENCE, by Henry F. Ivey, 1957 Aug. p. 40. [221]
- ELECTROMAGNETIC FLIGHT, by Henry H. Kolm and Richard D. Thornton, 1973 Oct. p. 17.
- ELECTROMAGNETIC WAVES, THE LONGEST, by James R. Heirtzler, 1962 Mar. p. 128.
- ELECTRON ACCELERATOR, THE TWO-MILE, by Edward L. Ginzton and William Kirk, 1961 Nov. p. 49. [322]
- ELECTRON BEAM, MICROCIRCUITS BY, by A. N. Broers and M. Hatzakis, 1972 Nov. p. 34.
- ELECTRON-HOLE LIQUID, AN, by Gordon A. Thomas, 1976 June p. 28.
- ELECTRON MICROSCOPE, A HIGH-RESOLUTION SCANNING, by Albert V. Crewe, 1971 Apr. p. 26
- ELECTRON MICROSCOPE, THE SCANNING, by
 Thomas E. Everhart and Thomas L. Hayes,
- 1972 Jan. p. 54.
 ELECTRON-POSITRON ANNIHILATION AND THE NEW PARTICLES, by Sidney D. Drell, 1975 June
- p. 50.
 ELECTRON-POSITRON COLLISIONS, by Alan M.
- Litke and Richard Wilson, 1973 Oct. p. 104. ELECTRON, THE G FACTOR OF THE, by H. R. Crane, 1968 Jan. p. 72.
- ELECTRON, THE SOLVATED, by James L. Dye, 1967 Feb. p. 76.
- ELECTRON TUBE, THE FIRST, by George Shiers, 1969 Mar. p. 104.
- ELECTRONIC CALCULATOR, THE SMALL, by Eugene W. McWhorter, 1976 Mar. p. 88.
- ELECTRONIC EQUIPMENT, AUTOMATIC
 MANUFACTURE OF, by Lawrence P. Lessing,
- 1955 Aug. p. 29.
 ELECTRONIC NUMBERS, by Alan Sobel, 1973 June
- p. 64. ELECTRONIC PHOTOGRAPHY OF STARS, by William A. Baum, 1956 Mar. p. 81.
- ELECTRONIC TELEPHONE, THE, by Peter P. Luff, 1978 Mar. p. 58. [3002]
- ELECTRONICS, by J. R. Pierce, 1950 Oct. p. 30. ELECTRONICS, A REVOLUTION IN, by Louis N. Ridenour, 1951 Aug. p. 13.
- ELECTRONICS, LARGE-SCALE INTEGRATION IN, by F. G. Heath, 1970 Feb. p. 22.
- ELECTRONS IN METALS CONDUCTION, by M. Ya'. Azbel, M. I. Kaganov and I. M. Lifshitz, 1973 Jan. p. 88.
- ELECTROPHORESIS, by George W. Gray, 1951 Dec. p. 45, [83]
- ELECTROSTATICS, by A. D. Moore, 1972 Mar. p. 46.
- ELEMENTARY-PARTICLE INTERACTION, UNIFIED THEORIES OF, by Steven Weinberg, 1974 July p. 50.
- elementary particles, by Murray GellMann and E. P. Rosenbaum, 1957 July p. 72. [213]
- ELEMENTARY PARTICLES, DUAL-RESONANCE MODELS OF, by John H. Schwarz, 1975 Feb. p. 61.

- ELEMENTARY PARTICLES THE SEARCH FOR NEW FAMILIES OF, by David B Cline, Alfred K Mann and Carlo Rubbia, 1976 Jan p 44
- ELEMENTS IV THE SYNTHETIC, by Glenn T Seaborg and Justin L Bloom, 1969 Apr p 56 ELEMENTS FROM SPACE HEAVY, by Edward P
- ELEMENTS FROM SPACE, HEAVY, by Edward P Ney, 1951 May p 26
- ELEMENTS IN THE SOLAR SYSTEM THE AGE OF THE, by John H Reynolds, 1960 Nov p 171 [253]
- ELEMENTS OF LIFE, THE CHEMICAL, by Earl Frieden, 1972 July p 52
- ELEMENTS THE ABUNDANCE OF THE, by Armin J Deutsch, 1950 Oct p 14
- ELEMENTS THE AGE OF THE, by David N Schramm, 1974 Jan p 69
- ELEMENTS THE NEWEST SYNTHETIC, by Albert Ghuorso and Glenn T Seaborg, 1956 Dec p 66 [243]
- ELEMENTS THE ORIGIN OF THE, by William A Fowler, 1956 Sept p 82
- ELEMENTS THE SYNTHETIC, by I Perlman and G T Seaborg, 1950 Apr p 38 [242]
- ELEMENTS III THE SYNTHETIC, by Glenn T Seaborg and A R Fritsch, 1963 Apr p 68 [293]
- ELEPHANT HUNTING IN NORTH AMERICA, by C Vance Haynes, Jr, 1966 June p 104
- ELEPHANTS THE INTELLIGENCE OF, by Bernhard Rensch, 1957 Feb p 44
- EMBRYO AS A TRANSPLANT THE, by Alan E Beer and Rupert E Billingham, 1974 Apr p 36 EMBRYO UP FROM THE, by Florence Moog, 1950
- EMBRYOLOGICAL ORIGIN OF MUSCLE, THE, by Irwin R Koningsberg, 1964 Aug p 61 EMBRYOLOGIST AND THE PROTOZOON THE, by
- Paul B Weisz, 1953 Mar p 76

 FMBRYOS IN THE LARGRATORY HUMAN, by R
- EMBRYOS IN THE LABORATORY HUMAN, by R G
 Edwards and Ruth E Fowler, 1970 Dec
 p 44 [1206]
- EMBRYOS THE SHAPING OF TISSUES IN, by Richard Gordon and Antone G Jacobson, 1978 June p 106 [1391]
- EMISSION ADVANCES IN FIELD, by W P Dyke, 1964 Jan p 108
- EMOTIONAL DEVELOPMENT EARLY EXPERIENCE AND, by Victor H. Denenberg, 1963 June p. 138 [478]
- EMOTIONS CONDITIONING AND, by Howard S Liddell, 1954 Jan p 48 [418]
- EMPIRE OF ANTIQUITY A FORGOTTEN, by Stuart Piggott, 1953 Nov p 42
- EMPTY SPACE, by H C van de Hulst, 1955 Nov p 72
- ENCEPHALITIS, by William McD Hammon, 1949 Sept p 18
- ENCOURAGEMENT OF SCIENCE, THE, by Warren Weaver, 1958 Sept p 170
- END OF THE MOAS THE, by Edward S Deevey, Jr, 1954 Feb p 84
- END OF THE MONKEY WAR, THE, by L Sprague de Camp, 1969 Feb p 15
- ENDEMIC GOITER, by R Bruce Gillie, 1971 June
- ENDOTOXINS BACTERIAL, by A I Braude, 1964
 Mar p 36
- ENDURING INDIAN THE, by Oliver La Farge, 1960 Feb p 37
- ENERGETICS OF BIRD FLIGHT THE, by Vance A Tucker, 1969 May p 70 [1141]
- ENERGETICS OF CELL MEMBRANES, COLICINS AND THE, by Salvador E. Luna, 1975 Dec p 30 [1332]
- ENERGETICS OF THE BUMBLEBEE, THE, by Bernd Heinrich, 1973 Apr p 96 [1270]
- ENERGIES PROTON INTERACTIONS AT HIGH, by Ugo Amaldi, 1973 Nov p 36

- ENERGY, by Sam H Schurr, 1963 Sept p 110 ENERGY AND INFORMATION, by Myron Tribus and Edward C McIrvine, 1971 Sept p 179 [670]
- ENERGY AND POWER, 1971 Sept issue ENERGY AND POWER, by Chauncey Starr, 1971 Sept p 36 [661]
- ENERGY CRISIS AND ITS CONSEQUENCES AN EARLY, by John U Nef, 1977 Nov p 140 [391]
- ENERGY CYCLE OF THE BIOSPHERE, THE, by George M Woodwell, 1970 Sept p 64 [1190] ENERGY CYCLE OF THE EARTH THE, by Abraham
- H Oort, 1970 Sept p 54 [1189]
- ENERGY HOW CELLS TRANSFORM, by A L Lehninger, 1961 Sept p 62 [91]
- ENERGY IN A FOREST ECOSYSTEM THE FLOW OF, by James R Gosz, Richard T Holmes, Gene E Likens and F Herbert Bormann, 1978 Mar p 92 [1384]
- ENERGY IN A HUNTING SOCIETY THE FLOW OF, by William B Kemp, 1971 Sept p 104 [665] ENERGY IN AN AGRICULTURAL SOCIETY THE FLOW OF, by Roy A Rappaport, 1971 Sept p 116 [666]
- ENERGY IN AN INDUSTRIAL SOCIETY THE FLOW OF, by Earl Cook, 1971 Sept p 134 [667] ENERGY IN THE BIOSPHERE, THE FLOW OF, by
- David M Gates, 1971 Sept p 88 [664] ENERGY IN THE UNIVERSE, by Freeman J Dyson, 1971 Sept p 50 [662]
- ENERGY OF STARS THE, by Robert E Marshak, 1950 Jan p 42
- ENERGY POLICY IN THE US, by David J Rose, 1974 Jan p 20 [684]
- ENERGY PRODUCTION AS A PROCESS IN THE BIOSPHERE, HUMAN, by S Fred Singer, 1970 Sept p 174 [1197]
- ENERGY REACTIONS OF CARBON HIGH, by Richard M Lemmon and Wallace R Erwin, 1975 Jan p 72
- ENERGY RESOURCES OF THE EARTH THE, by M King Hubbert, 1971 Sept p 60 [663]
- ENERGY SCATTERING HIGH, by Vernon D
 Barger and David B Cline, 1967 Dec p 76
 ENERGY THE CONVERSION OF, by Claude M
- Summers, 1971 Sept p 148 [668] ENERGY THE ECONOMIC GEOGRAPHY OF, by Daniel B Luten, 1971 Sept p 164 [669]
- ENERGY THE SOURCES OF MUSCULAR, by Rodolfo Margaria, 1972 Mar p 84 [1244]
- ENERGY TRANSFORMATION IN THE CELL, by Albert L Lehninger, 1960 May p 102 [69]
- enforcing the clean air act of 1970, by Noel de Nevers, 1973 June p 14
- ENGINE, RUDOLF DIESEL AND HIS RATIONAL, by Lynwood Bryant, 1969 Aug p 108 ENGINE, THE ORIGIN OF THE AUTOMOBILE, by
- Lynwood Bryant, 1967 Mar p 102 ENGINE, THE ORIGINS OF THE STEAM, by Eugene S Ferguson, 1964 Jan p 98
- engine, the Philips Air, by Leonard Engel, 1948
 July p 52
- ENGINE THE STERLING, by Graham Walker, 1973 Aug p 80
- ENGINE THE WANKEL, by David E Cole, 1972
 Aug p 14
- engineers, by Karl T Compton, 1951 Sept
- engines rotary, by Wallace Chinitz, 1969 Feb p 90
- ENGINES, RULING, by Albert G. Ingalls, 1952
 June p. 45
- ENGLAND A DESERTED MEDIEVAL VILLAGE IN, by Maurice Beresford, 1976 Oct p 116 ENGLAND VISIT TO, by Leopold Infeld, 1949 Nov p 40

- ENGLISH BROKEN, by H B G Casımır, 1956 Mar p 96
- ENHANCED RADIATION WEAPONS, by Fred M Kaplan, 1978 May p 44 [3007]
- ENTEROVIRUSES, by Joseph L. Melnick, 1959 Feb p 88
- ENVIRONMENT CANCER AND, by Groff Conklin, 1949 Jan p 11
- ENVIRONMENT COMMUNICATION AND SOCIAL, by George Gerbner, 1972 Sept p 152 [679] ENVIRONMENT EARLY, by William R Thompson
- and Ronald Melzack, 1956 Jan p 38 [469] ENVIRONMENT MERCURY IN THE, by Leonard J Goldwater, 1971 May p 15 [1221]
- ENVIRONMENT THE CITY AS, by Kevin Lynch, 1965 Sept p 209
- ENVIRONMENT THE CONTROL OF THE LUMINOUS, by James Marston Fitch, 1968 Sept p 190
- ENVIRONMENTAL CONTROL IN THE BEEHIVE, by Roger A Morse, 1972 Apr p 92 [1247] ENZYME MOLECULE, THE THREE DIMENSIONAL
- ENZYME MOLECULE, THE THREE DIMENSIONAL STRUCTURE OF AN, by David C Phillips, 1966 Nov p 78 [1055]
- ENZYMES, by John É Pfeiffer, 1948 Dec p 28
 ENZYMES BOUND TO ARTIFICIAL MATRIXES, by
 When Mochael 1971 Mag p 26 112161
- Klaus Mosbach, 1971 Mar p 26 [1216] ENZYMES IN MEDICAL DIAGNOSIS, by Felix
- Wroblewski, 1961 Aug p 99
 ENZYMES IN TEAMS, by David E Green 1949
- Sept p 48 [15] ENZYMES PROTEIN DIGESTING, by Hans Neurath,
- 1964 Dec p 68
 ENZYME SUBSTRATE COMPLEX THE, by Earl
 Frieden, 1959 Aug p 119
- EOTVOS EXPERIMENT THE, by R H Dicke, 1961 Dec p 84
- EPIDEMIOLOGY OF INFLUENZA THE, by Martin M Kaplan and Robert G Webster, 1977 Dec
- p 88 [1375] EPIDEMIOLOGY OF MENTAL DISEASE, THE, by Ernest M. Gruenberg, 1954 Mar. p. 38 [441] ERADICATION OF MALARIA THE, by Paul F
- Russell, 1952 June p 22
 ERADICATION OF SMALLPOX THE, by Donald A
- Henderson, 1976 Oct p 25

 ERADICATION OF THE SCREW WORM FLY THE, by
- Edward F Knipling, 1960 Oct p 54 EROSION BY RAINDROP, by W D Ellison, 1948 Nov p 40 [817]
- error correcting codes, by W Wesley Peterson, 1962 Feb p 96
- ESCAPE FROM PARADOX, by Anatol Rapoport, 1967 July p 50
- ESCAPE RESPONSES IN MARINE INVERTEBRATES, by Howard M Feder, 1972 July p 92 [1254]
- ESCHER SOURCES OF AMBIGUITY IN THE PRINTS OF MAURITS C, by Marianne L Teuber, 1974 July p 90 [560]
- ESSENTIAL OILS, by A J Haagen-Smut, 1953 Aug
- estuary the life of an, by Robert M Ingle, 1954 May p 64
- ethics of experimentation with human subjects the, by Bernard Barber, 1976 Feb p 25
- ETHICS OF GIVING PLACEBOS THE, by Sissela Bok
- ETRUSCAN METALLURGY, by Aldo Neppi Modona, 1955 Nov p 90
- etruscans the, by Raymond Bloch 1962 Feb p 82
- EUCLID NON EUCLIDEAN GEOMETRY BIFORE, by Imre Toth 1969 Nov p 87
- BRIDGES, by Leonhard Euler, edited by James R. Newman 1953 July p 66

- EUPALINUS THE TUNNEL OF, by June
 p Goodfield, 1964 June p 104
 EURASIA, THE COLLISION BETWEEN INDIA AND, by
 Peter Molnar and Paul Tapponnuer, 1977 Apr
 p 30 [923]
- EUROPE, CARBON 14 AND THE PREHISTORY OF, by Colin Renfrew, 1971 Oct p 63 [672] EUROPE, COMPUTERS IN EASTERN, by Ivan Berenyi, 1970 Oct p 102
- EUROPE RECOVERY OF ("E. C. E. Report"), 1948
 July p 9
- EUROPEAN PLAIN THE FINAL PALEOLITHIC SETTLEMENTS OF THE, by Romuald Schild, 1976 Feb p 88
- EUTECTICS, CONTROLLED, by R. Wayne Kraft, 1967 Feb p 86
- EVERSAL OF TUMOR GROWTH THE, by Armin C Braun, 1965 Nov p 75
- EVOLUTION CATACLYSMIC, by G Ledyard Stebbins, Jr, 1951 Apr p 54
- EVOLUTION CONTINENTAL DRIFT AND, by Bjorn Kurten, 1969 Mar p 54 [877] EVOLUTION CULTURAL, by Julian H Steward,
- 1936 May p 69
 EVOLUTION IONIZING RADIATION AND, by James
- F Crow, 1959 Sept p 138 [55] EVOLUTION OBSERVED, by Francis J Ryan, 1953
- Oct. p 78 EVOLUTION OF BEE LANGUAGE, THE, by Harald
- Esch, 1967 Apr p 96 [1071] EVOLUTION OF BEHAVIOR IN GULLS THE, by N
- Tinbergen, 1960 Dec p 118 [456] EVOLUTION OF BEHAVIOR, THE, by Konrad Z Lorenz, 1958 Dec p 67 [412]
- EVOLUTION OF BIRDS A STUDY IN THE, by H N
 Southern, 1957 May p 124
- EVOLUTION OF BOWERBIRDS, THE, by E Thomas Gilliard, 1963 Aug p 38 [1098]
- EVOLUTION OF CITIES THE ORIGIN AND, by Gideon Sjoberg, 1965 Sept p 54
- EVOLUTION OF GALAXIES THE, by Halton C Arp, 1963 Jan p 70
- evolution of galaxies the, by Jan H Oort, 1956 Sept p 100
- EVOLUTION OF HEMOGLOBIN THE, by Emule Zuckerkandl, 1965 May p 110 [1012]
- EVOLUTION OF INTELLIGENCE, THE, by M E Bitterman, 1965 Jan p 92 [490]
- EVOLUTION OF MAN THE PRESENT, by Theodosius Dobzhansky, 1960 Sept p 206 [609] EVOLUTION OF MIND PALEONEUROLOGY AND THE,
- by Harry J Jerison, 1976 Jan p 90 [568] EVOLUTION OF MIND THE, by Norman L Munn, 1957 June p 140
- EVOLUTION OF PALEOLITHIC ART THE, by Andre Leroi-Gourhan, 1968 Feb p 58
- EVOLUTION OF QUASARS THE, by Maarten Schmidt and Francis Bello, 1971 May p 54
- EVOLUTION OF REEFS THE, by Norman D
 Newell, 1972 June p 54 [901]
- EVOLUTION OF SEX THE, by Paul A Zahl, 1949 Apr p 52
- EVOLUTION OF STARS THE, by Otto Struve, 1953 Mar p 34
- EVOLUTION OF THE ANDES, THE, by David E. James, 1973 Aug p 60 [910]
- EVOLUTION OF THE HAND THE, by John Napier, 1962 Dec p 56 [140]
- EVOLUTION OF THE INDIAN OCEAN THE, by D P McKenzie and J G Sclater, 1973 May p 62 [908]
- EVOLUTION OF THE PACIFIC THE, by Bruce C Heezen and Ian D MacGregor, 1973 Nov p 102 [911]
- EVOLUTION OF THE PHYSICIST'S PICTURE OF NATURE, THE, by P. A. M. Dirac, 1963 May p. 45

- EVOLUTION OF THE SOLAR SYSTEM THE ORIGIN AND, by A G W Cameron, 1975 Sept p 32 EVOLUTION SICKLE CELLS AND, by Anthony C Allison, 1956 Aug p 87 [1065]
- EVOLUTION SYMBIOSIS AND, by Lynn Margulis, 1971 Aug p 48 [1230]
- EVOLUTION THE GENETIC BASIS OF, by Theodosius Dobzhansky, 1950 Jan p 32 [6]
- EVOLUTION THE SCARS OF HUMAN, by Wilton M Krogman, 1951 Dec p 54 [632]
- EVOLUTION TOOLS AND HUMAN, by Sherwood L Washburn, 1960 Sept p 62 [601]
- EVOLUTIONARY UNIVERSE, THE, by George Gamow, 1956 Sept p 136 [211]
- EXCAVATION OF A DROWNED GREEK TEMPLE, THE, by Michael H. Jameson, 1974 Oct. p. 110 EXCAVATION RAPID, by Thomas E. Howard, 1967 Nov. p. 74
- EXCAVATIONS AT SARDIS, by George M A
 Hanfmann, 1961 June p 124
- EXCLUSION PRINCIPLE, THE, by George Gamow, 1959 July p 74 [264]
- "EXECUTIVE MONKEYS ULCERS IN, by Joseph V Brady, 1958 Oct p 95 [425]
- EXERCISE, THE PHYSIOLOGY OF, by Carleton B Chapman and Jere H Mitchell, 1965 May p 88 [1011]
- EXOELECTRONS, by Ernest Rabinowicz, 1977 Jan p 74 [350]
- EXOTIC ATOMS, by Clyde E. Wiegand, 1972 Nov p 102
- EXOTIC LIGHT NUCLEI, by Joseph Cerny and Arthur M Poskanzer, 1978 June p 60 [3010]
- EXPECTATIONS FOR THE DISADVANTAGED
 TEACHER, by Robert Rosenthal and Lenore F
 Jacobson, 1968 Apr p 19 [514]
- EXPERIENCE AND EMOTIONAL DEVELOPMENT EARLY, by Victor H. Denenberg, 1963 June p. 138 [478]
- EXPERIENCE, BRAIN CHANGES IN RESPONSE TO, by Mark R. Rosenzweig, Edward L. Bennett and Marian Cleeves Diamond, 1972 Feb. p. 22 [541]
- EXPERIMENT IN APPLIED ANTHROPOLOGY AN, by John and Mary Collier, 1957 Jan p 37
- E. Bjork, 1975 Mar p 17
- EXPERIMENT THE MICHELSON MORLEY, by R. S Shankland, 1964 Nov p 107
- EXPERIMENTAL ANIMAL, THE HUMAN LYMPHOCYTE AS AN, by Richard A Lerner and Frank J Dixon, 1973 June p 82 [1275]
- EXPERIMENTAL GEOLOGY, by V V Belousov, 1961 Feb p 96
- EXPERIMENTAL NARCOTIC ADDICTION, by James R Weeks, 1964 Mar p 46
- EXPERIMENTAL NEUROSES, by Jules H Masserman, 1950 Mar p 38 [443]
- EXPERIMENTAL PSYCHOSES, by Six Staff Members of Boston Psychopathic Hospital, 1955 June p 34
- EXPERIMENTATION WITH HUMAN SUBJECTS, THE ETHICS OF, by Bernard Barber, 1976 Feb p 25
- EXPERIMENTS IN ACQUIRED CHARACTERISTICS, by C H Waddington, 1953 Dec p 92
- EXPERIMENTS IN AGING, by Albert I Lansing, 1953 Apr p 38
 EXPERIMENTS IN ANIMAL PSYCHOPHYSICS, by
- EXPERIMENTS IN ANIMAL PSYCHOPHYSICS, by
 Donald S Blough, 1961 July p 113 [458]
 EXPERIMENTS IN COLOR VISION, by Edwin H
 Land, 1959 May p 84 [223]
- EXPERIMENTS IN DISCRIMINATION, by Norman Guttman and Harry I Kalish, 1958 Jan p 77 [403]
- EXPERIMENTS IN GROUP CONFLICT, by Muzafer Sherif, 1956 Nov p 54 [454]

- EXPERIMENTS IN HURRICANE MODIFICATION, by R. H Simpson and Joanne S Malkus, 1964 Dec p 27
- EXPERIMENTS IN HYPNOSIS, by Theodore X Barber, 1957 Apr p 54
- EXPERIMENTS IN INTERGROUP DISCRIMINATION, by Henri Tajfel, 1970 Nov p 96 [530]
- EXPERIMENTS IN PERCEPTION, by W H Ittelson and F P Kilpatrick, 1951 Aug p 50 [405]
- EXPERIMENTS IN PROTEIN SYNTHESIS, by Ernest F Gale, 1956 Mar p 42
- EXPERIMENTS IN READING, by Paul A Kolers, 1972 July p 84 [545]
- EXPERIMENTS IN THE VISUAL PERCEPTION OF TEXTURE, by Bela Julesz, 1975 Apr p 34 [563]
- EXPERIMENTS IN TIME REVERSAL, by Oliver E Overseth, 1969 Oct p 88
- EXPERIMENTS IN WATER BREATHING, by Johannes A Kylstra, 1968 Aug. p 66 [1123]
- EXPERIMENTS WITH GOGGLES, by Ivo Kohler, 1962 May p 62 [465]
- EXPERIMENTS WITH NEUTRINO BEAMS, by Barry C
 Barish, 1973 Aug p 30
- EXPLANATION OF TWINS AN, by Gunnar Dahlberg, 1951 Jan p 48
- EXPLODING GALAXIES, by Allan R. Sandage, 1964
 Nov. p. 38
- Nov p 38
 EXPLODING STARS, by Robert P Kraft, 1962 Apr
- EXPLODING WIRES, by Frederick D Bennett,
- 1962 May p 102 EXPLORATION OF THE MOON THE, by Robert
- Jastrow, 1960 May p 61
 EXPLORATION OF THE MOON THE, by Wilmot
 Hess, Robert Kovach, Paul W Gast and Gene
- Simmons, 1969 Oct p 54 [889] EXPLORER, THE MATHEMATICIAN AS AN, by Sherman K Stein, 1961 May p 148
- EXPLORING THE HERBARIUM, by Siri von Reis Altschul, 1977 May p 96 [1359]
- EXPLORING THE OCEAN FLOOR, by Hans Pettersson, 1950 Aug p 42
- EXPLOSIONS THE DETECTION OF UNDERGROUND, by Sir Edward Bullard, 1966 July p 19
- EXPLOSIONS THE DETECTION OF UNDERGROUND, by L Don Leet, 1962 June p 55
- EXPLOSIVES NON MILITARY USES OF NUCLEAR, by Gerald W Johnson and Harold Brown, 1958 Dec p 29
- EXPRESSION COMMUNICATION AND FREEDOM OF, by Thomas I Emerson, 1972 Sept p 163 [680]
- EXPRESSIONS THE ORIGINS OF FACIAL, by Richard J Andrew, 1965 Oct p 88 [627]
- EXTENDING THE NUCLEAR TEST BAN, by Henry R. Myers, 1972 Jan p 13 [343]
- EXTRATERRESTRIAL INTELLIGENCE, THE SEARCH FOR, by Carl Sagan and Frank Drake, 1975 May p 80 [347]
- EYE AND CAMERA, by George Wald, 1950 Aug p 32 [46]
- Eye and the brain the, by R. W Sperry, 1956 May p 48 [1090]
- EYE, CONTROL MECHANISMS OF THE, by Derek H Fender, 1964 July p 24
- EYE, "FLOATERS" IN THE, by Harvey E. White and Paul Levatin, 1962 June p 119
- EYE HEAD MOVEMENTS, THE COORDINATION OF, by Emilio Bizzi, 1974 Oct p 100 [1305]

 EYE MOVEMENTS AND VISUAL PERCEPTION, by David Nation and Lawrence St. 1875
- David Noton and Lawrence Stark, 1971 June p 34 [537] EYE MOVEMENTS OF THE, by E. Llewellyn
- Thomas, 1968 Aug p 88 [516]
 EYE OF INSECTS, THE COMPOUND, by G Adrian
 Horndge, 1977 July p 108 [1364]

EYE SHERRINGTON ON THE, by Sir Charles S Sherrington, 1952 May p 30 EYEWITNESS TESTIMONY, by Robert Buckhout, 1974 Dec p 23 [562]

F

FABRICATION OF MICROELECTRONIC CIRCUITS THE, by William G Oldham, 1977 Sept p 110 [377]

FACES THE RECOGNITION OF, by Leon D Harmon, 1973 Nov p 70, [555]

FACIAL EXPRESSIONS THE ORIGINS OF, by Richard J Andrew, 1965 Oct p 88 [627]

FALSE SCORPIONS, by Theodore H Savory, 1966 Mar p 95 [1039]

FAMILY IN DEVELOPED COUNTRIES THE, by Norman B Ryder, 1974 Sept p 122

FAMILY OF PROTEIN CUTTING PROTEINS A, by Robert M Stroud, 1974 July p 74 [1301]

FAMILY OF SOLAR ECLIPSES A, by Richard M Sutton, 1954 Feb p 36

FAMILY PLANNING IN THE US, by Ronald F Freedman, Pascal K Whelpton and Arthur A Campbell, 1959 Apr p 50

FARADAY MICHAEL, by Herbert Kondo, 1953 Oct p 90

FARADAY TO THE DYNAMO FROM, by Harold I Sharlin, 1961 May p 107

FARMER S ALMANAC SUMERIAN, by Samuel Noah Kramer, 1951 Nov p 54

FARMING MARINE, by Gifford B Pinchot, 1970 Dec p 14 [1205]

FARMING VILLAGE IN TURKEY AN EARLY, by Halet Cambel and Robert J Braidwood, 1970 Mar p 50

FARMSTEAD IN SOUTHERN BRITAIN A CELTIC, by Geoffrey Wainwright, 1977 Dec p 156 [702] FAST BREEDER REACTORS, by Glenn T Seaborg and Justin L Bloom, 1970 Nov p 13 [339]

FAST NEUTRON SPECTROSCOPY, by Lawrence Cranberg, 1964 Mar p 79

FASTEST COMPUTER THE, by D L Slotnick, 1971 Feb p 76

FAT BODY, by Vincent P Dole, 1959 Dec p 70 FAT METABOLISM DISEASES HEREDITARY, by Roscoe O Brady, 1973 Aug p 88

FAT THE PRODUCTION OF HEAT BY, by Michael J R Dawkins and David Hull, 1965 Aug p 62 FAT THE SYNTHESIS OF, by David E Green, 1960 Feb p 46 [67]

FATHER OF AVIATION MEDICINE, by J M D Olmsted, 1952 Jan p 66

FATS THE METABOLISM OF, by David E Green, 1954 Jan p 32 [16]

FAULT THE SAN ADREAS, by Don L Anderson, 1971 Nov p 52 [896]

FEAR AND ANGER THE PHYSIOLOGY OF, by Daniel H Funkensiem, 1955 May p 74 [428] FEASIBILITY OF COAL DRIVEN POWER STATIONS ON

THE, by O R Frisch, 1956 Mar p 93
FEEDBACK, by Arnold Tustin, 1952 Sept p 48
FEEDBACK CONTROL THE ORIGINS OF, by Otto
Mayr, 1970 Oct p 110

FEEDBACK IN THE DIFFERENTIATION OF CELLS, by S Meryl Rose, 1958 Dec p 36

FEEDING BEHAVIOR OF MOSQUITOES, THE, by Jack Colvard Jones, 1978 June p 138 [1392] FEEDING TOTAL INTRAVENOUS, by Stanley J Dudrick and Jonathan E. Rhoads, 1972 May

p 73
FEEL OF THE MOON THE, by Ronald F Scott,
1967 Nov p 34

FERMI SURFACE OF METALS, THE, by A. R. Mackintosh, 1963 July p. 110

FERRITES, by C Lester Hogan, 1960 June p 92
FERTILITY CONTROL A STUDY IN, by Bernard
Berelson and Ronald Freedman, 1964 May
p 29 [621]

FERTILITY CONTROL PUBLIC POLICY ON, by Frederick S Jaffe, 1973 July p 17

FERTILITY MALE, by Edmond J Farris, 1950 May p 16

FERTILITY THE CONTROL OF, by Abraham Stone, $1954 \, \text{Apr} \, p \, 31$

FERTILIZATION AND ANTIBODIES, by Albert Tyler, 1954 June p 70 [43]

FERTILIZATION IN MAMMALS, by Gregory Pincus, 1951 Mar p 44

FERTILIZATION OF FLOWERS THE, by Verne Grant, 1951 June p 52 [12]

FERTILIZATION OF THE EGG, by Alberto Monroy, 1950 Dec p 46

FERTILIZATION THE MOMENT OF, by Robert D Allen, 1959 July p 124

FERTILIZATION THE PROGRAM OF, by David Epel, 1977 Nov p 128 [1372]

FERTILIZERS CHEMICAL, by Christopher J Pratt, 1965 June p 62

FEVER, by W Barry Wood, Jr., 1957 June p. 62 FIBER COMMUNICATION BY OPTICAL, by J. S. Cook, 1973 Nov. p. 28

FIBER OPTICS, by Narinder S Kapany, 1960 Nov p 72

FIBER REINFORCED METALS, by Anthony Kelly, 1965 Feb p 28

FIBERS IN THE BODY ELASTIC, by Russell Ross and Paul Bornstein, 1971 June p 44 [1225] FIBERS SYNTHETIC, by Simon Williams, 1951 July p 37

FIBRINGGEN THE CLOTHING OF, by Koloman Laki, 1962 Mar p 60

FIBROPLASIA THE LESSON OF RETROLENTAL, by William A Silverman, 1977 June p 100 [1361]

FIDDLER CRAB BIOLOGICAL CLOCKS AND THE, by Frank A Brown, Jr., 1954 Apr p 34 FIELD EMISSION ADVANCES IN, by W P Dyke, 1964 Jan p 108

FIELD THEORY, by Freeman J Dyson, 1953 Apr p 57 [208]

FIELDS INTERPLANETARY PARTICLES AND, by James A Van Allen, 1975 Sept p 160
FIGHTING BEHAVIOR OF ANIMALS THE, by Irenaus

Eibl-Eibesfeldt, 1961 Dec p 112 [470] FILARIASIS, by F Hawking, 1958 July p 94 FILMS AND SOAP BUBBLES THE GEOMETRY OF SOAP, by Frederick J Almgren, Jr, and Jean E

Taylor, 1976 July p 82
FILMS MONOMOLECULAR, by Herman E Ries,
Jr, 1961 Mar p 152

FILMS PSYCHIATRIC, 1949 Sept p 42 FINAL PALEOLITHIC SETTLEMENTS OF THE EUROPEAN PLAIN THE, by Romuald Schild, 1976 Feb p 88

FINAL STEPS IN SECRETION THE, by Birgit Satir, 1975 Oct p 28 [1328]

FINCHES DARWINS, by David Lack, 1953 Apr p 66 [22]

FINE PARTICLES, by Clyde Orr, Jr., 1950 Dec p 50

FINESTRUCTURE OF THE EARTH S INTERIOR, THE, by Bruce A Bolt, 1973 Mar p 24 [906] FINESTRUCTURE OF THE GENE, THE, by Seymour

Benzer, 1962 Jan p 70 [120] FINITE UNIVERSE, THE CURVATURE OF SPACE IN A, by J J Callahan, 1976 Aug p 90 FIRE AND FIRE PROTECTION, by Howard W

Emmons, 1974 July p 21 FIREANT THE, by Edward O Wilson, 1958 Mar p 36 FIRE MAKER, MAN THE, by Loren C Eiseley 1954 Sept p 52

FIRE THE ECOLOGY OF, by Charles F Cooper, 1961 Apr p 150 [1099]

FIREBALL THE PRIMEVAL, by P J E Peebles and David T Wilkinson, 1967 June p 28 FIREFLIES SYNCHRONOUS, by John and Elisabeth

Buck, 1976 May p 74
FIRST BREATH THE, by Clement A Smith, 1963

Oct p 27
FIRST ELECTRON TUBE, THE, by George Shiers,

1969 Mar p 104

FIRST HEARTBEATS THE, by James D Ebert, 1959 Mar p 87 [56]

FISH THE ARCHER, by K H Luling, 1963 July p 100

FISH THE ICE, by Johan T Ruud, 1965 Nov p 108

FISHES AIR BREATHING, by Kjell Johansen, 1968

Oct p 102 [1125]
FISHES ELECTRIC, by Harry Grundfest, 1960 Oct
p 115

FISHES ELECTRIC LOCATION BY, by H W Lissmann, 1963 Mar p 50 [152]

FISHES FLASHLIGHT, by John E McCosker, 1977
Mar p 106 [693]

FISHES REFLECTORS IN, by Eric Denton, 1971 Jan p 64 [1209]

FISHES SWIM HOW, by Sir James Gray, 1957 Aug p 48 [1113]

FISHES THE CHEMICAL LANGUAGES OF, by John H Todd, 1971 May p 98 [1222]

FISHES THE SCHOOLING OF, by Evelyn Shaw, 1962
June p 128 [124]

FISHES WITH WARM BODIES, by Francis G Carey, 1973 Feb p 36 [1266]

FISSION NUCLEAR, by R B Leachman, 1965 Aug p 49

FISSION POWER THE NECESSITY OF, by H A
Bethe, 1976 Jan p 21 [348]

Fission products the uses of, by Paul J Lovewell, 1952 June p 19

FISSION REACTOR A NATURAL, by George A Cowan, 1976 July p 36

FISSION REACTORS THE DISPOSAL OF RADIOACTIVE WASTES FROM, by Bernard L Cohen, 1977

June p 21 [364]

FISSION THE DISCOVERY OF, by Otto Hahn, 1958
Feb p 76

FISSION TRACK DATING, by J D Macdougall, 1976 Dec p 114

FITZGERALD G F, by Sir Edmund Whittaker, 1953 Nov p 93

Edwin P Hubble, 1949 Nov p 32

FIXED POINT THEOREMS, by Marvin Shinbrot, 1966 Jan p 105

FLAGELLA, by W T Asibury, 1951 Jan p 20 FLAME, HIGH TEMPERATURES, by Bernard Lewis, 1954 Sept p 84

FLARE STARS RADIO-EMITTING, by Sir Bernard Lovell, 1964 Aug p 13 FLARES SOLAR, by John W Evans, 1951 Dec

p 17
FLASH PHOTOLYSIS, by Leonard I Grossweiner.

1960 May p 134
FLASH THE GREEN, by D J K O Connell, S J

1960 Jan p 112

FLASHLIGHT FISHES, by John E. McCosker, 1977 Mar p. 106 [693]

FLEA THE FLYING LEAP OF THE, by Miriam Rothschild, Y Schlein, K Parker C Neville and S Sternberg, 1973 Nov p 92 [1284] FLEAS, by Miriam Rothschild, 1965 Dec p 44 [1027]

E Hartsell, 1960 June p 132

- FLEXAGONS, by Martin Gardner, 1956 Dec p 162
- FLIES AND DISEASE, by Bernard Greenberg, 1965 July p 92
- FLIGHT AT THE BORDERS OF SPACE, by Heinz Haber, 1952 Feb p 20
- FLIGHT CONTROL SYSTEM OF THE LOCUST THE, by Donald M Wilson, 1968 May p 83 FLIGHT LOW SPEED, by David C Hazen and
- Rudolf F Lehnert, 1956 Apr p 46 FLIGHT MUSCLES OF INSECTS THE, by David S
- Smuth, 1965 June p 76 [1014]
 FLIGHT OF BIRDS THE SOARING, by Clarence D
 Cone, Jr., 1962 Apr p 130
- FLIGHT OF LOCUSTS, THE, by Torkel Weis Fogh, 1956 Mar p 116
- FLIGHT OF VULTURES THE SOARING, by C J Pennycuick, 1973 Dec p 102
- FLIGHT ORIENTATION IN LOCUSTS, by Jeffrey M Camhi, 1971 Aug. p 74 [1231]
- FLINT TOOLS, THE FUNCTIONS OF PALEOLITHIC, by Lawrence H Keeley, 1977 Nov p 108 [700] "FLOATERS" IN THE EYE, by Harvey E White and
- Paul Levatin, 1962 June p 119
- FLOOR OF THE MID-ATLANTIC RIFT, by J R.
 Heirtzler and W B Bryan, 1975 Aug p 78
 [918]
- FLOW OF ENERGY IN A FOREST ECOSYSTEM THE, by James R. Gosz, Richard T. Holmes, Gene E. Likens and F. Herbert Bormann, 1978 Mar p. 92 [1384]
- FLOW OF ENERGY IN A HUNTING SOCIETY THE, by William B Kemp, 1971 Sept p 104 [665] FLOW OF ENERGY IN AN AGRICULTURAL SOCIETY THE, by Roy A Rappaport, 1971 Sept p 116
- [666]
 FLOW OF ENERGY IN AN INDUSTRIAL SOCIETY THE,
 by Earl Cook, 1971 Sept p 134 [667]
- FLOW OF ENERGY IN THE BIOSPHERE, THE, by
 David M Gates, 1971 Sept p 88 [664]
 FLOW OF HEAT FROM THE EARTH S INTERIOR THE,
 by Henry N Pollack and David S Chapman,
- 1977 Aug p 60 [927]
 FLOW OF MATTER, THE, by Marcus Reiner, 1959
 Dec p 122 [268]
- FLOWER PIGMENTS, by Sarah Clevenger, 1964 June p 84 [186]
- FLOWERING PROCESS THE, by Frank B Salisbury, 1958 Apr p 108 [112]
- FLOWERING THE CONTROL OF, by Aubrey W Naylor, 1952 May p 49 [113]
- FLOWERS IN THE ARCTIC, by Rutherford Platt, 1956 Feb p 88
- FLOWERS THE FERTILIZATION OF, by Verne Grant, 1951 June p 52 [12]
- FLUID CONTROL DEVICES, by Stanley W Angrist, 1964 Dec p 80
- FLUID DYNAMICS COMPUTER EXPERIMENTS IN, by Francis H Harlow and Jacob E Fromm, 1965
- Mar p 104

 FLUIDIZATION, by H William Flood and

 Remard S. Los. 1009 Lel.
- Bernard S Lee, 1968 July p 94 FLUIDS IN CRYSTALS ANCIENT, by Edwin Roedder, 1962 Oct p 38 [854]
- FLUORESCENCE ACTIVATED CELL SORTING, by Leonard A Herzenberg, Ruchard G Sweet and Leonore A Herzenberg, 1976 Mar p 108
- FLUOROCARBONS, by J H Simons, 1949 Nov
- FLY FRACTIONATING THE FRUIT, by Ernst Hadorn, 1962 Apr p 100 [1166]
- FLY THE ERADICATION OF THE SCREW WORM, by Edward F Knipling, 1960 Oct. p 54
 FLY THE LOVESONG OF THE FRUIT, by H C
 Bennet Clark and A W Ewing, 1970 July p 84 [1183]

- FLYING ANIMALS UNUSUAL MECHANISMS FOR THE GENERATION OF LIFT IN, by Torkel Weis-Fogh, 1975 Nov p 80 [1331]
- FLYING LEAP OF THE FLEATHE, by Minam Rothschild, Y. Schlein, K. Parker, C. Neville and S. Sternberg, 1973 Nov. p. 92 [1284]
- FLYING MOTHS, TEMPERATURE CONTROL IN, by Bernd Heinrich and George A Bartholomew, 1972 June p 70 [1252]
- FLYING SPOT MICROSCOPE A, by P O'B Montgomery and W A Bonner, 1958 May p 38
- FLYWHEELS, by Richard F Post and Stephen F Post, 1973 Dec p 17
- FOG, by Joel N Myers, 1968 Dec p 74 [876] FOOD, by Nevin S Scrimshaw, 1963 Sept p 72 [1153]
- FOOD ADDITIVES, by G O Kermode, 1972 Mar p 15
- FOOD ALGAE AS, by Harold W Milner, 1953 Oct p 31
- FOOD AND AGRICULTURE, 1976 Sept *Issue* FOOD AND AGRICULTURE, by Sterling Wortman, 1976 Sept p 30
- FOOD AND POPULATION, by Roger Revelle, 1974 Sept p 160
- FOOD CHAINS THE ROLE OF WAX IN OCEANIC, by Andrew A Benson and Richard F Lee, 1975 Mar p 76 [1318]
- FOOD FROM THE SEA, by Gordon A Ruley, 1949 Oct p 16
- FOOD NEEDS ORTHODOX AND UNORTHODOX METHODS OF MEETING WORLD, by N W Pine, 1967 Feb p 27 [1068]
- FOOD PROBLEM THE, by Lord John Boyd Orr, 1950 Aug p 11
- FOOD PRODUCTION AS A PROCESS IN THE BIOSPHERE, HUMAN, by Lester R Brown, 1970 Sept p 160 [1196]
- FOOD RESOURCES OF THE OCEAN THE, by S J Holt, 1969 Sept p 178 [886]
- FOOD-SHARING BEHAVIOR OF PROTOHUMAN HOMINIDS THE, by Glynn Isaac, 1978 Apr p 90 [706]
- FOOTPRINTS OF TUMOR VIRUSES THE, by Fred Rapp and Joseph L Melnick, 1966 Mar p 34
- FOOTRACING FUTURE PERFORMANCE IN, by Henry W Ryder, Harry Jay Carr and Paul Herget, 1976 June p 109
- FORAGE CROPS, by Harlow J Hodgson, 1976 Feb p 60
- FORCE BETWEEN MOLECULES THE, by Bons V Derjaguin, 1960 July p 47
- FOREIGN MEDICAL GRADUATE. THE, by Stephen S Mick, 1975 Feb p 14
- FOREIGN NUCLEIC ACIDS, by Alick Isaacs, 1963 Oct p 46 [166]
- FOREIGN SUBSTANCES HOW THE LIVER
 METABOLIZES, by Attallah Kappas and Alvito
 P Alvares, 1975 June p 22 [1322]
- FOREST CLEARANCE IN THE STONE AGE, by Johannes Iversen, 1956 Mar p 36
- FOREST ECOSYSTEM THE FLOW OF ENERGY IN A, by James R Gosz, Richard T Holmes, Gene E Likens and F Herbert Bormann, 1978 Mar p 92 [1384]
- FOREST SUCCESSION, by Henry S Horn, 1975 May p 90 [1321]
- FOREST THE TROPICAL RAIN, by Paul W Richards, 1973 Dec p 58 [1286]
- FORESTS OF YELLOWSTONE PARK THE PETRIFIED, by Erling Dorf, 1964 Apr p 106
- FORGETTING, by Benton J Underwood, 1964 Mar p 91 [482]
- FORGETTING THE INTERFERENCE THEORY OF, by John Ceraso, 1967 Oct. p 117 [509]

- FORGOTTEN CIVILIZATION OF THE PERSIAN GULF A by P V Glob and T G Bibby, 1960 Oct p 62
- FORGOTTEN EMPIRE OF ANTIQUITY A, by Stuart Piggot, 1953 Nov p 42
- FORGOTTEN NATION IN TURKEY A, by Seton Lloyd, 1955 July p 42
- FORM OF CITIES THE, by Kevin Lynch, 1954 Apr p 54
- FORM PERCEPTION THE ORIGIN OF, by Robert L Fantz, 1961 May p 66 [459]
- FORMING OF SHEET METAL, THE, by S S Hecker and A K Ghosh, 1976 Nov p 100
- FORT MONMOUTH, by John B Phelps and Ernest C Pollard, 1954 June p 29
- FORTIFICATION ILLUSIONS OF MIGRAINES THE, by Whitman Richards, 1971 May p 88 [536] FORTRESS IN SARDINIA A CARTHAGINIAN, by
- Sabatino Moscati, 1975 Feb p 80 FOSSIL BEHAVIOR, by Adolf Seilacher, 1967 Aug
- p 72 [872]
 FOSSIL HOMINID BRAINS THE CASTS OF, by Ralph
- L Holloway, 1974 July p 106 [686] FOSSIL MAN, by Loren C Eiseley, 1953 Dec p 65
- FOSSIL METEORITE CRATERS, by C $\,$ S $\,$ Beals, 1958 $\,$ July p $\,$ 32
- FOSSIL RECORD CONTINENTAL DRIFT AND THE, by A Hallam, 1972 Nov p 56 [903]
- FOSSILS CHEMICAL, by Geoffrey Eglinton and Melvin Calvin, 1967 Jan p 32 [308]
- FOSSILS THE OLDEST, by Elso S Barghoorn, 1971 May p 30 [895]
- FOUNDATIONS OF MATHEMATICS THE, by W V Quine, 1964 Sept p 112
- FOUR COLOR MAP PROBLEM THE SOLUTION OF THE, by Kenneth Appel and Wolfgang Haken, 1977 Oct p 108 [387]
- FOXGLOVE, WILLIAM WHITHERING AND THE PURPLE, by J Worth Estes and Paul Dudley White, 1965 June p 110
- FRACTIONATING THE FRUIT FLY, by Ernst Hadorn, 1962 Apr p 100 [1166] FRACTURE IN SOLIDS, by John J. Gulman, 19
- FRACTURE IN SOLIDS, by John J Gilman, 1960 Feb p 94
- FRACTURES IN THE PACIFIC FLOOR, by Henry W Menard, 1955 July p 36
- FRAGMENTS FROM THE MOON TEKTITES AND IMPACT, by John A O'Keefe, 1964 Feb p 50
- FRANKLIN IN DEFENSE OF BENJAMIN, by I Bernard Cohen, 1948 Aug p 36
- FREE FALL, GALILEO S DISCOVERY OF THE LAW OF, by Stillman Drake, 1973 May p 84 FREE RADICALS, by Paul D Bartlett, 1953 Dec
- p 74
 FREE RADICALS FROZEN, by Charles M. Herzfeld and Arnold M. Rass. 1957 Mar. p. 00 (262)
- and Arnold M Bass, 1957 Mar p 90 [263] FREE RADICALS IN BIOLOGICAL SYSTEMS, by William A Pryor, 1970 Aug p 70 [335]
- FREEDOM OF EXPRESSION COMMUNICATION AND, by Thomas I Emerson, 1972 Sept p 163 [680]
- FREEZES HOW WATER, by Bruce Chalmers, 1959 Feb p 114
- FREEZING DESALTING WATER BY, by Asa E. Snyder, 1962 Dec p 41
- FREEZING OF LIVING CELLS. THE, by A S Parkes, 1956 June p 105
- FRESH WATER FROM SALT, by David S Jenkins, 1957 Mar p 37
- FREUD Now, by Frederic Wertham, 1949 Oct p 50
- FRICTION, by Frederic Palmer, 1951 Feb p 54 FROG CALLS, by Ralph K Potter, 1950 May p 46
- FROG EGGS, RABBIT HEMOGLOBIN FROM, by Charles Lane, 1976 Aug. p 60 [1343]

FROG HOW A TADPOLE BECOMES A, by William Etkin, 1966 May p 76 [1042]

FROGS VISION IN, by W R A Muntz, 1964 Mar p 110

FROM CAVE TO VILLAGE, by Robert J Braidwood, 1952 Oct p 62

FROM FARADAY TOT THE DYNAMO, by Harold I Sharlin, 1961 May p 107

FRONTIER POST IN ROMAN BRITAIN A, by Robin Birley, 1977 Feb p 38 [692]

FROSTBITE, by Emlen T Littell, 1952 Feb p 52 FROZEN FREE RADICALS, by Charles M Herzfeld and Arnold M Bass, 1957 Mar p 90 [263]

FROZEN TOMBS OF THE SCYTHIANS, by M I Artamonov, 1965 May p 100

FRUIT FLY FRACTIONATING THE, by Ernst Hadorn, 1962 Apr p 100 [1166]

FRUIT FLY THE LOVE SONG OF THE, by H C Bennet-Clark and A W Ewing, 1970 July p 84 [1183]

FRUIT THE RIPENING OF, by J B Biale, 1954 May p 40 [118]

FUEL CELLS, by Leonard G Austin, 1959 Oct p 72

FUEL CONSUMPTION OF AUTOMOBILES THE, by John R Pierce, 1975 Jan p 34

FUEL ELEMENTS REACTOR, by James F Schumar, 1959 Feb p 37

FUEL PROBLEM THE, by Eugene Ayres, 1949 Dec p 32

FUEL SITUATION THE, by Eugene Ayres, 1956 Oct p 43

FUELS CLEAN POWER FROM DIRTY, by Arthur M Squires, 1972 Oct p 26

FUELS THE REPROCESSING OF NUCLEAR, by William P Bebbington, 1976 Dec p 30

FUNCTIONAL ORGANIZATION OF THE BRAIN THE, by A R Luria, 1970 Mar p 66 [526]

FUNCTIONS OF PALEOLITHIC FLINT TOOLS THE, by Lawrence H Keeley, 1977 Nov p 108 [700] FUNDAMENTAL PARTICLES WITH CHARM, by Roy F Schwitters, 1977 Oct p 56 [388]

FUNDAMENTAL PHYSICAL CONSTANTS THE, by Barry N Taylor, Donald N Langenberg and William H Parker, 1970 Oct p 62 [337]

FUNDAMENTAL QUESTIONS IN SCIENCE, 1953 Sept issue

FUNDAMENTAL QUESTIONS IN SCIENCE, by Warren Weaver, 1953 Sept p 47

FUNGI OF LICHENS THE, by Vernon Ahmadjian, 1963 Feb p 122

FUNGI PREDATORY, by Joseph J Maio, 1958 July p 67

FUNGUS GARDENS OF INSECTS THE, by Lekh R and Suzanne W T Batra, 1967 Nov p 112

FUSION BY LASER, by Moshe J Lubin and Arthur P Fraas, 1971 June p 21

FUSION POWER, by Richard F Post, 1957 Dec p 73 [236]

FUSION POWER BY LASER IMPLOSION, by John L Emmett, John Nuckolls and Lowell Wood,

1974 June p 24
FUSION POWER, PROGRESS TOWARD, by T K.
Fowler and Richard F Post, 1966 Dec p 21

FUSION POWER, THE PROSPECTS OF, by William C Gough and Bernard J Eastlund, 1971 Feb p 30 [340]

FUSION REACTORS, THE LEAKAGE PROBLEM IN, by Francis F Chen, 1967 July p 76

FUSION RESEARCH THE TOKAMAK APPROACHIN, by Bruno Coppi and Jan Rem, 1972 July p 65

FUTURE OF THE AMAZON THE, by Peter van Dresser, 1948 May p 11 FUTURE PERFORMANCE IN FOOTRACING, by Henry W Ryder, Harry Jay Carr and Paul Herget, 1976 June p 109

G

G FACTOR OF THE ELECTRON THE, by H $\,R\,$ Crane, 1968 Jan $\,p\,$ 72

GALAXIES COLLIDING, by Rudolph Minkowski, 1956 Sept p 125

GALAXIES DWARF, by Paul W Hodge, 1964 May p 78

GALAXIES EXPLODING, by Allan R Sandage, 1964 Nov p 38

GALAXIES GIANT RADIO, by Richard G Strom, George K Miley and Jan Oort, 1975 Aug p 26

GALAXIES HAVE A SPIRAL FORM? WHY DO, by Cecilia H Payne-Gaposchkin, 1953 Sept p 89

GALAXIES HYDROGEN IN, by Morton S Roberts, 1963 June p 94

GALAXIES IN FLIGHT, by George Gamow, 1948

July p 20

GALAXIES PECULIAR, by Geoffrey and E Margaret Burbidge, 1961 Feb p 50

GALAXIES RADIO, by D S Heeschen, 1962 Mar p 41

GALAXIES RADIO, by Martin Ryle, 1956 Sept p 204 [278]

GALAXIES SEYFERT, by Ray J Weymann, 1969 Jan p 28

GALAXIES SUPERNOVAS IN OTHER, by Robert P Kirshner, 1976 Dec p 88

GALAXIES THE CLUSTERING OF, by Edward J Groth, P James E Peebles, Michael Seldner and Raymond M Soneira, 1977 Nov p 76 [390]

GALAXIES THE CONTENT OF, by Walter Baade, 1956 Sept p 92

GALAXIES THE DISTRIBUTION OF, by Jerzy Neyman and Elizabeth L Scott, 1956 Sept p 187

GALAXIES THE EVOLUTION OF, by Halton C Arp, 1963 Jan p 70

GALAXIES THE EVOLUTION OF, by Jan H Oort, 1956 Sept p 100

GALAXIES THE ORIGIN OF, by Martin J Rees and Joseph Silk, 1970 June p 26

GALAXIES VIOLENT TIDES BETWEEN, by Alar and Juri Toomre, 1973 Dec p 38

GALAXY THE ARMS OF THE, by Bart J Bok, 1959 Dec p 92

GALAXY THE CENTER OF THE, by R H Sanders and G T Wrixon, 1974 Apr p 66

GALAXY THE MAGNETIC FIELD OF THE, by Glenn L Berge and George A Seielstad, 1965 June p. 46

GALAXY THE RADIO, by Gart Westerhout, 1959 Aug p 44 [250]

GALAXY THE SPIRAL STRUCTURE OF THE, by W W Morgan, 1955 May p 42

GALEN, by Frederick G Kilgour, 1957 Mar p 105

GALILEAN SATELLITES OF JUPITER THE, by Dale P
Cruikshank and David Morrison, 1976 May
p. 108

GALILEO, by I Bernard Cohen, 1949 Aug p 40
GALILEO AND THE FIRST MECHANICAL COMPUTING
DEVICE, by Sullman Drake, 1976 Apr p 104

GALILEO S DISCOVERY OF THE CAW OF FREE FALL, by Sullman Drake, 1973 May p 84 GALILEO S DISCOVERY OF THE PARABOLIC

GALILEO S DISCOVERY OF THE PARABOLIC
TRAJECTORY, by Stillman Drake and James
MacLachlan, 1975 Mar p 102

GALILEO S EXPERIMENTS THE ROLE OF MUSICIN by Stillman Drake, 1975 June p 98 GALTON FRANCIS, by James R Newman, 1954 Jan p 72

GALVANOMAGNETIC AND THERMOMAGNETIC EFFECTS, by Stanley W Angrist, 1961 Dec p 124

GAME THEORY AND DECISIONS, by Leonid Hurwicz, 1955 Feb p 78

GAME THEORY THE USE AND MISUSE OF, by Anatol Rapoport, 1962 Dec p 108

GAMES LOGIC AND COMPUTERS, by Hao Wang 1965 Nov p 98

GAMES THE ORIGINS OF THE OLYMPIC, by Raymond Bloch, 1968 Aug p 78

GAMES THE THEORY OF, by Oskar Morgenstern 1949 May p 22

GAMMA GLOBULIN IN POLIO, by William McD Hammon, 1953 July p 25

GAMMA RAY ASTRONOMY, by William L Kraushaar and George W Clark, 1962 May p 52

GAMMA RAY BURSTS COSMIC, by Ian B Strong and Ray W Klebesadel, 1976 Oct p 66

GARDENS OF INSECTS THE FUNGUS, by Lekh R and Suzanne W T Batra, 1967 Nov p 112 [1086]

GAS CHROMATOGRAPHY, by Roy A Keller, 1961 Oct p 58 [276]

GAS FROM COAL, OIL AND, by Neal P Cochran, 1976 May p 24

GAS FROM THE MINE, by Leonard Engel, 1950 June p 52

GAS LIQUID NATURAL, by Noel de Nevers, 1967 Oct p 30

GAS NATURAL, by James J Parsons, 1951 Nov p 17

GAS THE IMPORTATION OF LIQUEFIED NATURAL, by Elisabeth Drake and Robert C Reid, 1977 Apr p 22 [353]

GAS TURBINE, THE, by Lawrence P Lessing, 1953 Nov p 65

GAS VACUOLES OF BLUE GREEN ALGAE, THE, by A E Walsby, 1977 Aug p 90 [1367]

GASES SOLID NOBLE, by Gerald L Pollack, 1966 Oct p 64

GASES THE CHEMISTRY OF THE NOBLE, by Henry Selig, John G Malm and Howard H Claassen, 1964 May p 66

GASIFICATION OF COAL, THE, by Harry Perry, 1974 Mar p 19

GAUSS, by Ian Stewart, 1977 July p 122 [371] GEARS LEONARDO ON BEARINGS AND, by Ladislao Reti, 1971 Feb p 100

GENE REGULATION CHROMOSOMAL PROTEINS AND by Gary S Stein, Janet Swinehart Stein and Lewis J Kleinsmith, 1975 Feb p 46 [1315] GENE STRUCTURE AND PROTEIN STRUCTURE, by Charles Yanofsky, 1967 May p 80 [1074]

GENE, THE by Norman H Horowitz, 1956 Oct 78 [17]

GENE, THE FINE STRUCTURE OF THE, by Seymour Benzer, 1962 Jan p 70 [120]

GENERAL CIRCULATION OF THE ATMOSPHERE THE, by Victor P Starr, 1956 Dec p 40

GENERAL TOM THUMBAND OTHER MIDGETS by Victor A McKusick and David L Rimoin, 1967 July p 102

GENERALIZED THEORY OF GRAVITATION ON THE, by Albert Einstein, 1950 Apr p 13 GENES ACT! HOW DO, by Vernon M. Ingram, 1958

Jan p 68

GENES HORMONES AND, by Eric H Davidson,

1965 June p 36 [1013]

GENES, HYBRID CELLS AND HUMAN, by Frank H Ruddle and Raju S Kucherlapati 1974 July p 36 [1300]

- GENES IN ACTION THE VISUALIZATION OF, by O L Miller, Jr., 1973 Mar p 34 [1267] GENES OF MEN AND MOLDS THE, by George W
- Beadle, 1948 Sept p 30 [1] GENES OUTSIDE THE CHROMOSOMES, by Ruth Sager, 1965 Jan p 70 [1002]
- GENES PARTNER OF THE, by T M Sonneborn, 1950 Nov p 30 [39]
- GENES, THE ISOLATION OF, by Donald D Brown, 1973 Aug p 20 [1278]
- GENES, THE MANIPULATION OF, by Stanley N Cohen, 1975 July p 24 [1324]
- GENES, VIRUSES AND, by François Jacob and Elie L Wollman, 1961 June p 92 [89]
- GENETIC ACTIVITY OF MITOCHONDRIA AND CHLOROPLASTS THE, by Ursula W Goodenough and R P Levine, 1970 Nov p 22 [1203]
- GENETIC BASIS OF EVOLUTION THE, by Theodosius Dobzhansky, 1950 Jan p 32 [6]
- GENETIC CODE, ANTIBIOTICS AND THE, by Luigi Gorini, 1966 Apr p 102
- GENETIC CODE, THE, by F H C Crick, 1962 Oct p 66 [123]
- GENETIC CODE. III THE, by F H C Crick, 1966 Oct p 55 [1052]
- GENETIC CODE II THE, by Marshall W Nirenberg, 1963 Mar p 80 [153]
- GENETIC CODE OF A VIRUS THE, by Heinz Fraenkel-Conrat, 1964 Oct p 46 [193]
- GENETIC CONTROL OF THE SHAPE OF A VIRUS, THE, by Edouard Kellenberger, 1966 Dec p 32
- genetic disease, prenatal diagnosis of, by Theodore Friedmann, 1971 Nov p 34 [1234] GENETIC DISSECTION OF BEHAVIOR, by Seymour
- Benzer, 1973 Dec p 24 [1285] GENETIC DRIFT IN AN ITALIAN POPULATION, by Luigi Luca Cavalli-Sforza, 1969 Aug p 30
- GENETIC FUTURE, MAN S, by Curt Stern, 1952 Feb p 68
- GENETIC IMPROVEMENT OF SOUTHERN PINES THE, by Bruce J Zobel, 1971 Nov p 94 GENETIC LOAD, by Christopher Wills, 1970 Mar p 98 [1172]
- GENETIC MONSTERS, by L C Dunn, 1950 June
- p 16 GENETIC MOSAICS, by Aloha Hannah-Alava, 1960
- May p 118 GENETIC REPRESSORS, by Mark Ptashne and
- Walter Gilbert, 1970 June p 36 [1179] GENETIC TRANSFORMATION CELLULAR FACTORS IN, by Alexander Tomasz, 1969 Jan p 38 GENETICS, by Theodosius Dobzhansky, 1950
- Sept p 55 GENETICS AND CANCER, by Leonell C Strong, 1950 July p 44
- GENETICS AND HUMAN ORIGINS POPULATION, by Robert B Eckhardt, 1972 Jan p 94 [676] GENETICS OF A BACTERIAL VIRUS THE, by R. S
- Edgar and R. H Epstein, 1965 Feb p 70 [1004] GENETICS OF HUMAN CANCER, THE, by Carlo M
- Croce and Hilary Koprowski, 1978 Feb p 117 [1381] GENETICS OF HUMAN POPULATIONS. THE, by L. L
- Cavallı Sforza, 1974 Sept p 80 GENETICS OF THE DUNKERS, THE, by H Bentley
- Glass, 1953 Aug p 76 [1062] GENETICS, THE STATE OF, by A Buzzati-Traverso, 1951 Oct. p 22
- GENEVA BIOLOGY, by C A Mawson, 1955 Oct p 38
- GENEVA CHEMISTRY, by J M Fletcher and F Hudswell 1955 Oct p 34 GENEVA CONFERENCE THE, by Robert A Charpie, 1955 Oct p 27

- GENEVA REACTORS, by Robert A Charpie, 1955 Oct p 56
- GEOGRAPHY OF BIRDS THE, by Carl Welty, 1957 July p 118
- GEOGRAPHY OF DISEASE, THE, by Jacques M May, 1953 Feb p 22
- GEOGRAPHY OF ENERGY THE ECONOMIC, by Daniel B Luten, 1971 Sept p 164 [669] GEOGRAPHY OF STEEL THE, by George H T Kimble, 1952 Jan p 44
- GEOLOGICAL OBSERVATORY THE LAMONT, by George W Gray, 1956 Dec p 83
- GEOLOGICAL SUBSIDENCE, by Sullivan S Marsden, Jr, and Stanley N Davis, 1967 June p 93
- GEOLOGY, by Reginald A Daly, 1950 Sept p 36 GEOLOGY EXPERIMENTAL, by V V Belousov, 1961 Feb p 96
- GEOLOGY OF THE MOON THE, by Eugene M Shoemaker, 1964 Dec p 38
- GEOMAGNETIC REVERSALS TELTITES AND, by Billy P Glass and Bruce C Heezen, 1967 July p 32
- GEOMETRY, by Morris Kline, 1964 Sept p 60 GEOMETRY AND INTUITION, by Hans Hahn, 1954
- GEOMETRY BEFORE EUCLID NON EUCLIDEAN, by Imre Toth, 1969 Nov p 87
- GEOMETRY OF SOAP FILMS AND SOAP BUBBLES THE, by Frederick J Almgren, Jr, and Jean E Taylor, 1976 July p 82
- GEOMETRY PROJECTIVE, by Morris Kline, 1955 Jan p 80
- GEOMETRY THE INVENTION OF ANALYTIC, by Carl B Boyer, 1949 Jan p 40
- GEOSYNCLINES MOUNTAINS AND CONTINENT BUILDING, by Robert S Dietz, 1972 Mar p 30 [899]
- GEOTHERMAL POWER, by Joseph Barnea, 1972 Jan p 70 [898]
- GERM FREE ISOLATORS, by P C Trexler, 1964 July p 78
- GERM OF TUBERCULOSIS THE, by Esmond R Long, 1955 June p 102
- GERM THEORY SECOND THOUGHTS ON THE, by Rene J Dubos, 1955 May p 31
- GERMAN MEASLES, by Louis Z Cooper, 1966 July p 30
- GERMER, DAVISSON AND, by Karl K Darrow, 1948 May p 50
- GERMINATION, by Dov Koller, 1959 Apr p 75 GETTING OLD, by Alexander Leaf, 1973 Sept p 44
- GHETTO RIOTERS A STUDY OF, by Nathan S Caplan and Jeffery M Paige, 1968 Aug p 15 [638]
- GIANT BRAIN CELLS IN MOLLUSKS, by A O D Willows, 1971 Feb p 68 [1212]
- GIANT CELL, ACETABULARIA A USEFUL, by Aharon Gibor, 1966 Nov p 118 [1057]
- GIANT CLAMS, by C M Yonge, 1975 Apr p 96
 GIANT MOLECULES, 1957 Sept issue GIANT MOLECULES, by Herman F Mark, 1957
- Sept p 80 GIANT MOLECULES IN CELLS AND TISSUES, by Francis O Schmitt, 1957 Sept p 204 [35]
- GIANT RADIO GALAXIES, by Richard G Strom, George K Miley and Jan Oort, 1975 Aug. p 26
- GIGANTOPITHECUS, by Elwyn L Simons and Peter C Ettel, 1970 Jan p 76
- GIRAFFE THE PHYSIOLOGY OF THE, by James V Warren, 1974 Nov p 96 [1307]
- GLACIERS, by William O Field, 1955 Sept p 84 [809] GLACIERS ON THE ORIGIN OF, by Charles R.

Warren, 1952 Aug. p 57

- GLAND TEARS AND THE LACRIMAL, by Stella Y Botelho, 1964 Oct p 78
- GLAND THE PINEAL, by Richard J Wurtman and Julius Axelrod, 1965 July p 50 [1015]
- GLAND THE THYMUS, by Sir Macfarlane Burnet, 1962 Nov p 50 [138]
- GLAND THE THYROID, by Lawson Wilkins, 1960 Mar p 119
- GLANDS SALT, by Knut Schmidt-Nielsen, 1959 Jan p 109
- GLASS, by Charles H Greene, 1961 Jan p 92 GLASS ANCIENT, by Robert H Brill, 1963 Nov p 120
- GLASSES, THE NATURE OF, by R. J Charles, 1967 Sept p 126
- GLAUCOMA, by Sidney Lerman, 1959 Aug
- GLOBAL CIRCULATION OF ATMOSPHERIC POLLUTANTS THE, by Reginald E Newell, 1971 Jan p 32 [894]
- GLOBAL SATELLITE COMMUNICATIONS, by Burton I Edelson, 1977 Feb p 58 [353]
- GLOBULAR CLUSTER STARS, by Icko Iben, Jr, 1970 July p 26
- GLOBULAR CLUSTERS X RAY STARS IN, by George W Clark, 1977 Oct p 42 [385]
- GLOBULES BOK, by Robert L Dickman, 1977 June p 66 [366]
- GLORY THE, by Howard C Bryant and Nelson Jarmie, 1974 July p 60
- GLYCOPROTEINS, by Nathan Sharon, 1974 May p 78 [1295]
- GODELS PROOF, by Ernest Nagel and James R. Newman, 1956 June p 71
- GOGGLES EXPERIMENTS WITH, by Ivo Kohler, 1962 May p 62 [465]
- GOITER, ENDEMIC, by R. Bruce Gillie, 1971 June p 92
- GOLGI APPARATUS THE, by Marian Neutra and C P Leblond, 1969 Feb p 100 [1134] GOUT AND METABOLISM, by deWitt Stetten, Jr,
- 1958 June p 73 GOVERNMENT INVESTMENT IN HEALTH CARE, by
- Irving J Lewis, 1971 Apr p 17 GRADIENTS DENSITY, by Gerald Oster, 1965 Aug
- p 70
- GRAINS INTERSTELLAR, by J Mayo Greenberg, 1967 Oct p 106
- GRAND CANYON PREHISTORIC MAN IN THE, by Douglas W Schwartz, 1958 Feb p 97 GRANITE THE ORIGIN OF, by O Frank Tuttle,
- 1955 Apr p 77 GRAPE VINES AND CLIMATE WINES, by Philip Wagner, 1974 June p 106 [1298]
- GRAPHICS IN ARCHITECTURE COMPUTER, by Donald P Greenberg, 1974 May p 98
- GRASSHOPPER, THE LEAP OF THE, by Graham Hoyle, 1958 Jan p 30
- GRAVITATION ON THE GENERALIZED THEORY OF, by Albert Einstein, 1950 Apr p 13 GRAVITATIONAL COLLAPSE, by Kip S Thorne,
- 1967 Nov p 88 GRAVITATIONAL THEORY, by Clifford M Will,
- 1974 Nov p 24 GRAVITATIONAL WAVES THE DETECTION OF, by
- Joseph Weber, 1971 May p 22 GRAVITY, by George Gamow, 1961 Mar p 94
- GRAVITY GETTING WEAKER' IS, by Thomas C Van Flandern, 1976 Feb p 44 GRAVITY THE EARTH S, by Weikko A Heiskanen,
- 1955 Sept p 164 [812] GRAY WHALE THE RETURN OF THE, by Raymond
- M Gilmore, 1955 Jan p 62 GRAZING ECOSYSTEM IN THE SERENGETI, by Richard H V Bell, 1971 July p 86 [1228] GREAT ALBATROSSES, THE, by W L N Tickell,

1970 Nov p 84 [1204]

GREAT AUTOMOBILE RACE OF 1895, THE, by Jacques Ickx, 1972 May p. 102.

GREAT CEREBRAL COMMISSURE, THE, by R. W. Sperry, 1964 Jan. p. 42. [174]

GREAT INFRA-CAMBRIAN ICE AGE, THE, by W. Brian Harland and Martin J. S. Rudwick, 1964 Aug. p. 28.

GREAT LAKES, THE AGING, by Charles F. Powers and Andrew Robertson, 1966 Nov. p. 94. [1056]

GREAT METEOR OF 1947, THE, by Otto Struve, 1950 June p. 42.

"GREAT RAVELLED KNOT, THE", by George W. Gray, 1948 Oct. p. 26. [13]

GREAT TEST-BAN DEBATE, THE, by Herbert F. York, 1972 Nov. p. 15. [342]

GREECE, AN EARLY NEOLITHIC VILLAGE IN, by Robert J. Rodden, 1965 Apr. p. 82.

GREECE, LIFE IN MYCENAEAN, by John Chadwick, 1972 Oct. p. 36. [681]

GREEK ASTRONOMY, by Giorgio de Santillana, 1949 Apr. p. 44.

GREEK COMPUTER, AN ANCIENT, by Derek J. de Solla Price, 1959 June p. 60.

GREEK PREHISTORY, 17,000 YEARS OF, by Thomas W. Jacobsen, 1976 June p. 76.

GREEK TEMPLE, THE EXCAVATION OF A DROWNED, by Michael H. Jameson, 1974 Oct. p. 110.

GREEK'S AND THE HERBEWS THE by Cyclic H.

GREEKS AND THE HEBREWS, THE, by Cyrus H. Gordon, 1965 Feb. p. 102.

GREEN FLASH, THE, by D. J. K. O'Connell, S. J., 1960 Jan. p. 112.

GREEN TURTLE, THE NAVIGATION OF THE, by Archie Carr, 1965 May p. 78. [1010] GROUND WATER, by A. N. Sayre, 1950 Nov.

ground water, by A. N. Sayre, 1950 Nov. p. 14. [818]

GROUP CONFLICT, EXPERIMENTS IN, by Muzafer Sherif, 1956 Nov. p. 54. [454]

GROUP PSYCHOTHERAPY, by S. R. Slavson, 1950 Dec. p. 42. [449]

GROUPS, PEOPLE IN, by David B. Hertz and Sandra Lloyd Lesser, 1951 Feb. p. 26.

GROUSE, THE LEK MATING SYSTEM OF THE SAGE, by R. Haven Wiley, Jr., 1978 May p. 114. [1390] GROWING UP, by J. M. Tanner, 1973 Sept. p. 34. GROWTH, HUMAN, by George W. Gray, 1953 Oct. p. 65. [1063]

GROWTH IN PLANT CELLS, THE CONTROL OF, by F. C. Steward, 1963 Oct. p. 104.

GROWTH OF CRYSTALS, THE, by Robert L. Fullman, 1955 Mar. p. 74.

GROWTH OF MUSHROOMS, THE, by John Tyler Bonner, 1956 May p. 97.

GROWTH OF NERVE CIRCUITS, THE, by R. W. Sperry, 1959 Nov. p. 68. [72]

GROWTH OF SNOW CRYSTALS, THE, by B. J. Mason, 1961 Jan. p. 120.

GROWTH SUBSTANCES, PLANT, by Frank B.
Salisbury, 1957 Apr. p. 125. [110]

GROWTH, THE CONTROL OF PLANT, by Johannes van Oberbeek, 1968 July p. 75. [1111]
GUAYANA, CIUDAD, A NEW CITY, by Lloyd

Rodwin, 1965 Sept. p. 122.

GULLIVER WAS A BAD BIOLOGIST, by Florence Moog, 1948 Nov. p. 52.

GULLS, THE EVOLUTION OF BEHAVIOR IN, by N.
Tinbergen, 1960 Dec. p. 118. [456]
GULLS, VISUAL ISOLATION IN, by Neal Griffith

Smith, 1967 Oct. p. 94. [1084] GUM NEBULA, THE, by Stephen P. Maran, 1971 Dec. p. 20.

H

HABITAT SELECTION, by Stanley C. Wecker, 1964 Oct. p. 109. [195]

HACILAR: A NEOLITHIC VILLAGE SITE, by James Mellaart, 1961 Aug. p. 86.

HADRONS, PHOTONS AS, by Frederick Murphy and David E. Yount, 1971 July p. 94.

HAGFISH, THE, by David Jensen, 1966 Feb. p. 82. [1035]

HAILSTONES, by Charles and Nancy Knight, 1971 Apr. p. 96.

HALES, STEPHEN, by I. Bernard Cohen, 1976 May p. 98.

HALLOWEEN, by Ralph Linton, 1951 Oct. p. 62. HALLUCINATIONS, by Ronald K. Siegel, 1977 Oct. p. 132. [579]

HALLUCINOGENIC DRUGS, 1HE, by Frank Barron, Murray E. Jarvik and Sterling Bunnell, Jr., 1964 Apr. p. 29. [483]

HALOS, ATMOSPHERIC, by David K. Lynch, 1978 Apr. p. 144. [3007]

HAMILTON, WILLIAM ROWAN, by Sir Edmund Whittaker, 1954 May p. 82.

HAMSTER, SKIN TRANSPLANTS AND THE, by Rupert E. Billingham and Willys K. Silvers, 1963 Jan. p. 118, [148]

HAND, THE EVOLUTION OF THE, by John Napier, 1962 Dec. p. 56. [140]

HARAPPANS, THE DECLINE OF THE, by George F. Dales, 1966 May p. 92.

HARVESTING, MECHANICAL, by Clarence F. Kelly, 1967 Aug. p. 50. [329]

HARVEY, WILLIAM, by Frederick G. Kilgour, 1952 June p. 56.

HAUKSBEE, FRANCIS, by Duane and Duane H. D. Roller, 1953 Aug. p. 64.

HEALING, WOUND, by Russell Ross, 1969 June p. 40.

HEALTH, AIR POLLUTION AND PUBLIC, by Walsh McDermott, 1961 Oct. p. 49. [612]

HEALTH CARE, GOVERNMENT INVESTMENT IN, by Irving J. Lewis, 1971 Apr. p. 17.

HEALTH INSURANCE, NATIONAL, by Michael M. Davis, 1949 June p. 11.

HEALTH OF THE AMERICAN PEOPLE, THE, by Forrest E. Linder, 1966 June p. 21.

HEALTH SERVICES, DEINSTITUTIONALIZATION AND MENTAL, by Ellen L. Bassuk and Samuel Gerson, 1978 Feb. p. 46. [581]

HEART CARE, INTENSIVE, by Bernard Lown, 1968
July p. 19.

HEART CELLS IN VITRO, by Isaac Harary, 1962 May p. 141.

HEART INSIDE THE BODY, AN ARTIFICIAL, by Willem J. Kolff, 1965 Nov. p. 38. [1023] HEART METABOLISM, by Richard J. Bing, 1957 Feb. p. 50.

HEART MUSCLE, 1951 Aug. p. 48.

HEART SOUNDS, by Victor A. McKusick, 1956 May p. 120.

HEART SURGERY, by Frank G. Slaughter, 1950 Jan. p. 14.

HEART SURGERY, OPEN-, by C. Walton Lilleher and Leonard Engel, 1960 Feb. p. 76.

and Leonard Engel, 1960 Feb. p. 76. HEART, THE, by Carl J. Wiggers, 1957 May. 74.

HEARTBEAT IN THE RELATIONS BETWEEN MOTHER AND INFANT, THE ROLE OF THE, by Lee Salk, 1973 May p. 24.

HEARTBEATS, THE FIRST, by James D. Ebert, 1959 Mar. p. 87. [56]

HEARTS PACEMAKER, THE, by E. F. Adolph, 1967 Mar. p. 32. [1067] HEAT, 1954 Sept. ISSUE. HEAT AND LIFE, by Frank H. Johnson, 1954 Sept. p. 64.

HEAT BARRIER, THE, by Fritz Haber, 1953 Dec. p. 80.

HEAT BY FAT, THE PRODUCTION OF, by Michael J. R. Dawkins and David Hull, 1965 Aug. p. 62. HEAT, COLD AND CLOTHING, by James B. Kelley, 1956 Feb. p. 109.

HEAT DEATH, by L. V. Heilbrunn, 1954 Apr. p. 70.

HEAT FROM THE EARTH'S INTERIOR, THE FLOW OF, by Henry N. Pollack and David S. Chapman, 1977 Aug. p. 60. [927]

HEAT IN SOLIDS, THE CONDUCTION OF, by Robert L. Sproull, 1962 Dec. p. 92.

HEAT, PIONEERS IN THE THEORY OF, by I. Bernard Cohen, 1954 Sept. p. 60.

HEAT PIPE, THE, by G. Yale Eastman, 1968 May p. 38.

HEAT PUMP, THE, by John F. Sandfort, 1951 May p. 54.

HEAT, THE EARTH'S, by A. E. Benfield, 1950 Dec. p. 54.

HEAT TRANSFER IN PLANTS, by David M. Gates, 1965 Dec. p. 76. [1029]

HEAT? WHAT IS, by Freeman J. Dyson, 1954 Sept. p. 58.

HEAVY ELEMENTS FROM SPACE, by Edward P. Ney, 1951 May p. 26.

HEAVY LEPTONS, by Martin L. Perl and William T. Kirk, 1978 Mar. p. 50. [398]

HEAVY-WATER REACTORS, NATURAL-URANIUM, by Hugh C. McIntyre, 1975 Oct. p. 17.

HEAVY WATER, THE BIOLOGY OF, by Joseph J. Katz, 1960 July p. 106.

HEBREWS, THE GREEKS AND THE, by Cyrus H. Gordon, 1965 Feb. p. 102.

HELICOPTER, THE CHANGING, by Alfred Gessow, 1967 Apr. p. 38.

HELICOPTERS, by Lawrence P. Lessing, 1955 Jan. p. 36.

HELIUM, QUANTIZED VORTEX RINGS IN SUPERFLUID, by F. Reif, 1964 Dec. p. 116. HELIUM, "SECOND SOUND" IN SOLID, by Bernard Bertman and David J. Sandiford, 1970 May

HELIUM, SOLID, by Bernard Bertman and Robert A. Guyer, 1967 Aug. p. 84.

HELIUM 3. SUPERFLUID, by N. David Mermin and David M. Lee, 1976 Dec. p. 56.

HELMHOLTZ, by A. C. Crombie, 1958 Mar. p. 94. HEMOGLOBIN FROM FROG EGGS RABBIT, by Charles Lane, 1976 Aug. p. 60. [1343]

HEMOGLOBIN MOLECULE, THE, by M. F. Perutz, 1964 Nov. p. 64. [196]

HEMOGLOBIN, THE EVOLUTION OF, by Emile Zuckerkandl, 1965 May p. 110. [1012] HEMOPHILIA, THE ROYAL, by Victor A. McKusick, 1965 Aug. p. 88.

HENRY JOSEPH, by Mitchell Wilson, 1954 July p. 72.

HEPATITIS, VIRAL, by Joseph L. Melnick, Gordon R. Dreesman and F. Blaine Hollinger, 1977 July p. 44. [1365]

HERBARIUM, EXPLORING THE, by Siri von Reis Altschul, 1977 May p. 96. [1359]

HERDING IN UGANDA, SUBSISTENCE, by Rada and Neville Dyson-Hudson, 1969 Feb. p. 76. HEREDITARY DISEASE, THE CHEMISTRY OF, by A.

HEREDITARY DISEASE, THE CHEMISTRY OF, DY A. G. Beath, 1956 Dec. p. 126. HEREDITARY FAT-METABOLISM DISEASES, by

ROSCOE O. Brady, 1973 Aug. p 88.
HEREDITARY MATERIAL. THE STRUCTURE OF THE,
by F. H. C. Crick, 1954 Oct. p. 54.

HEREDITY, LETHAL, by Willard F. Hollander, 1952 July p. 58. [28]

- HEREDITY, THE CHEMISTRY OF, by A. E. Mirsky, 1953 Feb. p. 47. [28]
- HERPES VIRUSES AND CANCER, by Keen A. Rafferty, Jr., 1973 Oct. p. 26.
- HERTZ, HEINRICH, by Philip and Emily Morrison, 1957 Dec. p. 98.
- HIBERNATION, by Carles P. Lyman and Paul O. Chatfield, 1950 Dec. p. 18.
- HIBERNATORS. THE ADJUSTABLE BRAIN OF, by N. Mrosovsky, 1968 Mar. p. 110.
- HICKORY, SHAGBARK, by Donald Culross Peattie, 1948 Sept. p. 40.
- HIDDEN LIVES, by Theodore H. Savory, 1968 July p. 108. [1112]
- HIGH ALTITUDE, THE PHYSIOLOGY OF, by Raymond J. Hock, 1970 Feb. p. 52. [1168] HIGH BLOOD PRESSURE, by Irvine H. Page, 1948
- Aug. p. 44.
 HIGH COMPRESSION, by Alex Taub, 1950 Feb.
- p. 16. HIGH ENERGIES PROTON INTERACTIONS AT, by Ugo Amaldi, 1973 Nov. p. 36.
- HIGH PRESSURE, CELLS AT, by Douglas Marsland, 1958 Oct. p. 36.
- HIGH PRESSURE, MAGNETIC RESONANCE AT, by George B. Benedek, 1965 Jan. p. 102.
- HIGH PRESSURE, SUPERCONDUCTIVITY AT, by N. B. Brandt and N. I. Ginzburg, 1971 Apr. p. 83. HIGH TECHNOLOGY IN CHINA, by Raphael Tsu,
- 1972 Dec. p. 13. HIGH TEMPERATURES: CHEMISTRY, by Fairington Daniels, 1954 Sept. p. 109.
- HIGH TEMPERATURES, CHEMISTRY AT VERY, 1954 Sept. p. 116.
- HIGH TEMPERATURES: FLAME, by Bernard Lewis, 1954 Sept. p. 84.
- HIGH TEMPERATURES: MATERIALS, by Pol Duwez, 1954 Sept. p. 98.
- HIGH TEMPERATURES: PROPULSION, by Martin Summerfield, 1954 Sept. p. 120.
- HIGH TEMPERATURES, SHOCK WAVES AND, by Malcolm McChesney, 1963 Feb. p. 109.
- HIGH TEMPERATURES. THE DEFORMATION OF METALS AT, by Hugh J. McQueen and W. J. McGregor Tegart, 1975 Apr. p. 116.
- HIGH TEMPERATURES, VERY, by Arthur Kantrowitz, 1954 Sept. p. 132.
- HIGH-EFFICIENCY PHOTOSYNTHESIS, by Olle Björkman and Joseph Berry, 1973 Oct. p. 80. [1281]
- HIGH-ENERGY ASTROPHYSICS, ROTATION IN, by Franco Pacini and Martin J. Rees, 1973 Feb. p. 98.
- HIGH-ENERGY COSMIC RAYS, by Bruno Rossi, 1959 Nov. p. 134.
- HIGH-ENERGY REACTIONS OF CARBON, by Richard M. Lemmon and Wallace R. Erwin, 1975 Jan. p. 72.
- HIGH-ENERGY SCATTERING, by Vernon D. Barger and David B. Cline, 1967 Dec. p. 76.
- HIGH-GRADIENT MAGNETIC SEPARATION, by Henry Kolm, John Oberteuffer and David Kelland, 1975 Nov. p. 46.
- HIGH-LYSINE CORN, by Dale D. Harpstead, 1971 Aug. p. 34. [1229]
- HIGH-POWER CARBON DIOXIDE LASERS, by C. K. N. Patel, 1968 Aug. p. 22.
- HIGH-PRESSURE TECHNOLOGY, by Alexander Zeitlin, 1965 May p. 38.
- HIGH-RESOLUTION SCANNING ELECTRON
 MICROSCOPE, A. by Albert V. Crewe, 1971 Apr.
 p. 26.
- HIGH-SPEED CHEMISTRY, by Lawrence P. Lessing, 1953 May p. 29.
- HIGH-SPEED IMPACT, by A. C. Charters, 1960 Oct. p. 128.

- HIGH-SPEED RESEARCH AIRPLANES, by Walter T. Bonney, 1953 Oct. p. 36.
- HIGH-SPEED TUBE TRANSPORTATION, by L. K. Edwards, 1965 Aug. p. 30.
- HIGH-TEMPERATURE PLASTICS, by A. H. Frazer, 1969 July p. 96.
- HIGH VACUUM, by Philip and Emily Morrison, 1950 May p. 20.
- HIGH VELOCITIES, CHEMISTRY AT, by Richard Wolfgang, 1966 Jan. p. 82.
- HIGH-VOLTAGE POWER TRANSMISSION, by L. O. Barthold and H. G. Pfeiffer, 1964 May p. 38.
- HILBERT'S 10TH PROBLEM, by Martin Davis and Reuben Hersh, 1973 Nov. p. 84.
- HIMALAYAS, THE ECOLOGY OF THE HIGH, by Lawrence W. Swan, 1961 Oct. p. 68.
- HISTOCOMPATIBILITY ANTIGENS, THE STRUCTURE AND FUNCTION OF, by Bruce A. Cunningham, 1977 Oct. p. 96. [1369]
- HISTOPLASMOSIS: THE UNKNOWN INFECTION, by Martin Gumpert, 1948 June p. 12.
- HISTORICAL SUPERNOVAS, by F. Richard Stephenson and David H. Clark, 1976 June p. 100.
- HISTORY IN A PEAT BOG, by Thomas G. Bibby, 1953 Oct. p. 84.
- HISTORY OF A DIG, by Louis M. Stumer, 1955 Mai. p. 98.
- HISTORY OF A PERUVIAN VALLEY, THE, by James A. Ford, 1954 Aug. p. 28.
- HISTORY OF A RIVER, THE, by Raymond E. Janssen, 1952 June p. 74.
- HISTORY OF LIFE, CRISES IN THE, by Norman D. Newell, 1963 Feb. p. 76. [867]
- HISTORY OF LIFE IN THE OCEANS, PLATE TECTONICS AND THE, by James W. Valentine and Eldridge M. Moores, 1974 Apr. p. 80. [912]
- HISTORY OF THE AIRFLOW CAR, THE, by Howard S. Irwin, 1977 Aug. p. 98. [697]
- HISTORY OF THE HUMAN POPULATION, THE, by Ansley J. Coale, 1974 Sept. p. 40.
- HITTITE CITADEL, 1949 Aug. p. 22. HOLOGRAMS, WHITE-LIGHT, by Emmett N. Leith,
- 1976 Oct. p. 80. HOLOGRAPHY, ACOUSTICAL, by Alexander F. Metherell, 1969 Oct. p. 36.
- HOLOGRAPHY, ADVANCES IN, by Keith S. Pennington, 1968 Feb. p. 40.
- HOME LIFE OF THE SWIFT. THE, by David and Elizabeth Lack, 1954 July p. 60.
- HOMER'S HEROES, THE LANGUAGE OF, by Jotham Johnson, 1954 May p. 70.
- HOMING SALMON, THE, by Arthur D. Hasler and James A. Larsen, 1955 Aug. p. 72. [411]
- HOMINID BRAINS, THE CASTS OF FOSSIL, by Ralph L. Holloway, 1974 July p. 106. [686]
- HOMINIDS, THE FOOD-SHARING BEHAVIOR OF PROTOHUMAN, by Glynn Isaac, 1978 Apr. p. 90. 1706]
- p. 90. [706] HOMO ERECTUS, by William W. Howells, 1966 Nov. p. 46. [630]
- номо монятковия, by Annemarie de Waal Malefijt, 1968 Oct. p. 112.
- HOMUNCULUS OR MONKEY? OREOPITHECUS: by Loren C. Eiseley, 1956 June p. 91.
- HONEYBEE, THE, by Ronald Ribbands, 1955 Aug. p. 52. HONEYBEES, SOUND COMMUNICATION IN, by
- Adrian M. Wenner, 1964 Apr. p. 116. [181] HOOKE ROBERT, by E. N. da C. Andrade, 1954 Dec. p. 94.
- HOPEWELL CULT, THE, by Olaf H. Prufer, 1964 Dec. p. 90.
- HOPI AND THE TEWA, THE, by Edward P. Dozier, 1957 June p. 126. HORMONE, THE JUVENILE, by Carroll M.

Williams, 1958 Feb. p. 67.

- HORMONE, THE PARATHYROID, by Howard Rasmussen, 1961 Apr. p. 56. [86]
- HORMONE, THE THYMUS, by Raphael H. Levey, 1964 July p. 66.
- HORMONES, by Sir Solly Zuckerman, 1957 Mar. p. 76. [1122]
- HORMONES AND GENES, by Eric H. Davidson, 1965 June p. 36. [1013]
- HORMONES AND NERVE TISSUE, INTERACTIONS BETWEEN, by Bruce S. McEwen, 1976 July p. 48. [1341]
- HORMONES AND SKIN COLOR, by Aaron B. Lerner, 1961 July p. 98.
- HORMONES IN SOCIAL AMOEBAE AND MAMMALS, by John Tyler Bonner, 1969 June p. 78.
- HORMONES OF THE HYPOTHALAMUS. THE, by Roger Guillemin and Roger Burgus, 1972 Nov. p. 24. [1260]
- HORMONES, PLANT, by Victor Schocken, 1949 May p. 40.
- HORMONES, THE RECEPTORS OF STEROID, by Bert W. O'Malley and William T. Schrader, 1976 Feb. p. 32. [1334]
- HORN OF THE UNICORN. THE, by John Tyler Bonner, 1951 Mar. p. 42.
- HORNS AND ANTLERS, by Walter Modell, 1969 Apr. p. 114. [1139]
- HOSPITAL THE, by John H. Knowles, 1973 Sept.
- p. 128. HOST CELL HOW VIRUSES INSERT THEIR DNA INTO THE DNA OF THE, by Allan M. Campbell, 1976
- Dec. p. 102. [1347] HOT ATOM CHEMISTRY, by Willard F. Libby, 1950 Mar. p. 44.
- HOT SPOTS IN THE ATMOSPHERE OF THE SUN, by Harold Zirin, 1958 Aug. p. 34.
- HOT SPOTS ON THE EARTH'S SURFACE, by Kevin C. Burke and J. Tuzo Wilson, 1976 Aug. p. 46. [920]
- HOUSE MICE, POPULATIONS OF, by Robert L. Strecker, 1955 Dec. p. 92.
- HOUSE MOUSE, THE PHYSIOLOGY OF THE, by Daniel S. Fertig and Vaughan W. Edmonds, 1969 Oct. p. 103. [1159]
- HOUSEWORK, TIME SPENT IN, by Joanne Vanek, 1974 Nov. p. 116.
- HOW A RATTLESNAKE STRIKES, by Walker Van Riper, 1953 Oct. p. 100.
- HOW A TADPOLE BECOMES A FROG, by William Etkin, 1966 May p. 76. [1042]
- HOW ACTINOMYCIN BINDS TO DNA, by Henry M. Sobell, 1974 Aug. p. 82. [1303]
- HOW AN EGGSHELL IS MADE, by T. G. Taylor, 1970 Mar. p. 88. [1171] HOW AN INSTINCT IS LEARNED, by Jack P.
- Hailman, 1969 Dec. p. 98. [1165] HOW ANIMALS CHANGE COLOR, by Lorus J. and Margery J. Milne, 1952 Mar. p. 64.
- HOW ANIMALS RUN, by Milton Hildebrand, 1960 May p. 148.
- HOW ANTIBODIES ARE MADE, by Sir Macfarlane Burnet, 1954 Nov. p. 74.
- HOW BACTERIA STICK, by J. W. Costeron, G. G. Geesey and K.-J. Cheng, 1978 Jan. p. 86. [1379]
- HOW BACTERIA SWIM, by Howard C. Berg, 1975 Aug. p. 36.
- HOW BIRDS BREATHE, by Knut Schmidt-Nielsen, 1971 Dec. p. 72. [1238]
- HOW BIRDS SING, by Crawford H. Greenewalt, 1969 Nov. p. 126. [1162] HOW CELLS ASSOCIATE, by A. A. Moscona, 1961
- Sept. p. 142. HOW CELLS ATTACK ANTIGENS, by Robert S. Speirs, 1964 Feb. p. 58.
- HOW CELLS COMMUNICATE, by Bernhard Katz, 1961 Sept. p. 209. [98]

- now certis piyane, by Daniel Maria, 1961 Sept. p. 100 [93]
- movertry wave estimonics, by G. J. V. No oal, 1964 Dec. p. 106 (1991)
- Richard L. McCarty, 1978 Mar. p. 104 [1153]
- Howelft Stake Morey fro, by Vincent G Allfrey and Alfred F. Mirsky, 1961 Sept p. 74-4921
- now citts sunvi, by Teru Hay ish, 1961 Sept p. 184 [97]
- now citty arcrive structi, by William H. Miller, I lovd Rathff and H. K. Hartline, 1961. Sept. p. 222, [99]
- now CHI STREET LIFE, by Michael Enchberg and Automo W. Blackler, 1961 Sept. p. 124 [94]
- Tehninger, 1961 Sept. p. 62 [91]
- now emergia seroasi vistin vistin si coscieris, by Jean Piager, 1953 Nov. p. 71 [420]
- now entresions, by Peter Sain, 1974 Oct. p. 44 [1304]
- noa did kerter der over niverbyt two every, by Curtis Wilson, 1972 Mar. p. 92
- now to critis in research by C. H. Waddington, 1953 Sept. p. 103
- now per Grand with by Vernon M. Ingram, 1958 Lamp, 68.
- HOW EAST CANCOMPLETERS ADDIT by Shimuel Winograd, 1968 Oct. p. 93.
- now rishes swist, by Sir James Gray, 1937, Aug. p. 48, [1113]
- HOW GIAST MOLECULES ARE MEASURED, by Peter J. W. Debye, 1937 Sept. p. 50.
- HOW GIANT MOLECULES ARE VENDE, by Giulio Natta, 1957 Sept. p. 98.
- How inforogy sirvers worms sarry s, by Jean Lipman-Blumen, 1972 Jan p. 34
- HOW ISLAUS ARE DETECTED, by R. Clark Jones, 1968 Sept. p. 110
- HOW IMAGES ARE FORMED, by F. Dow Smith, 1968 Sept. p. 96
- HOW IS A PROTEIN VINDED by K. U. Linderstrom-Lang, 1953 Sept. p. 100.
- Howas Muscue Turner on and off? by Graham Hoyle, 1970 Apr. p. 84. [1175]
- HOW LIGHT INTERACTS WITH LIVING MATTER, by Sterling B. Hendricks, 1968 Sept. p. 174.
- HOW LIGHT INTERACTS WITH MATTER, by Victor F. Weisskopf, 1968 Sept. p. 60.
- HOW LIGHT IS ANALYZED, by Pierre Connes, 1968 Sept. p. 72.
- HOW LIVING CLLES CHANGE SHAPE, by Norman K. Wessells, 1971 Oct. p. 76. [1233]
- HOW MAN CAMETO NORTH AMERICA, by Ralph Solecki, 1951 Jan. p. 11.
- HOW "NEWER ALCHEMY" WAS RECEIVED, by Lawrence Badash, 1966 Aug. p. 88. "HOW NICE TO BE A PHYSICIST", songs by Arthur
- Roberts, 1948 Sept. p. 50. HOW OPIATES CHANGE BEHAVIOR, by John R.
- Nichols, 1965 Feb. p. 80. HOW PEOPLE INTERACT IN CONFERENCES, by
- Robert F. Bales, 1955 Mar. p. 31. HOW PROTEINS START, by Brian F. C. Clark and Kjeld A. Marcker, 1968 Jan. p. 36. [1092]
- HOW REPTILES REGULATE THEIR BODY
 TEMPERATURE, by Charles M. Bogert, 1959
 Apr. p. 105.
- HOW SAP MOVES IN TREES, by Martin H.
 Zimmermann, 1963 Mar. p. 132. [154]
 HOW SLIME MOLDS COMMUNICATE, by John Tyler
 Bonner, 1963 Aug. p. 84. [164]
- HOW SNAKES MOVE, by Carl Gans, 1970 June p. 82. [1180]

- HOW ITH IMPROPERTIES OF TO EVERY A SECURITY OF A STATE OF THE ACT OF THE POST - now the civin sucrementary courses, of notes of the Attallah Kappas and Alvito P. Alvares, 1975 June p. 22, [1322]

1977 Oct p 122 [699]

- now the vicine is a von to the bastic of eat variable Michael H. Jameson, 1961 Mar. p. 111
- 1961 Sept. p. 167, [96]
- NOW TO IT SON SOUSSAIS, by H. F. Skinner, 1951. Dec. p. 26 [123]
- now visit at the east time to extrato the to exor the not exert, by Allan M. Campbell, 1976 Dec. p. 102 [1347]
- tion wattstatizers, by Bruce Chalmers, 1959. Feb. p. 114.
- 1008 at corelast the constanction of a mulicular by P. A. Merton, 1972 May p. 30 [1249]
- HOW WE REMEMBER WHAT WE SEE, by Ralph Norman Haber, 1970 May p. 104 [525]
- 1900 June p. 121
- m MAN BEHAMOR, STONE TOOLS AND, by Sally R. Binford and Lewis R. Binford, 1969 Apr p. 70 [643]
- nt vivo tony is space, this, by Heinz Haber, 1951 Jan. p. 16.
- HUMANIODY THE EFFECTNOLLIGHT ON THE, by Richard J. Wurtman, 1975 July p. 65 [1325] HUMANIODY ADMILLY DISCOVERER OF THE, by
- Martin Gumpett, 1948 May p. 24 ht MAN BRAIN THE ASS MARETRY OF THE, by
- Doreen Kimura, 1973 Mar. p. 70 [554] ht Max Cancer, the Ginetics of, by Carlo M Croce and Hilary Koprowski, 1978 Feb p. 117 [1381]
- HUMAN CELLS AND AGING, by Leonard Hayflick, 1968 Mar. p. 32. [1103]
- HUMAN CHROMOSOMES, THE MAPPING OF, by Victor A. McKusick, 1971 Apr. p. 104 [1220] HUMAN COMMUNICATION, INTERACTIVE, by
- Alphonse Chapanis, 1975 Mar. p. 36. HUMAN CROP. THE, by Edward S. Deevey, Jr., 1956 Apr. p. 105.
- HUMAN DISLASE ANIMAL INFECTIONS AND, by Meir Yoch, 1960 May p. 161.
- HUMAN DISEASES, THE KINSHIP OF ANIMAL AND, by Robert W. Leader, 1967 Jan. p. 110.
- HUMAN EMBRYOS IN THE LABORATORY, by R. G. Edwards and Ruth E. Fowler, 1970 Dec. p. 44. [1206]
- HUMAN ENERGY PRODUCTION AS A PROCESS IN THE BIOSPHERE, by S. Fred Singer, 1970 Sept. p. 174, [1197]
- HUMAN FOOD PRODUCTION AS A PROCESS IN THE BIOSPHERE, by Lester R. Brown, 1970 Sept. p. 160. [1196]
- HUMAN GENES. HYBRID CELLS AND, by Frank H. Ruddle and Raju S. Kucherlapati, 1974 July p. 36. [1300]
- HUMAN GROWTH, by George W. Gray, 1953 Oct. p. 65, [1063]
- HUMAN HUNGER, THE DIMENSIONS OF, by Jean Mayer, 1976 Sept. p. 40.
- HUMAN INFANT, THE CRY OF THE, by Peter F. Ostwald and Philip Peltzman, 1974 Mar. p. 84. [558]
- HUMAN KNEE JOINT, THE SURGICAL REPLACEMENT OF THE, by David A. Sonstegard, Larry S. Matthews and Herbert Kaufer, 1978 Jan. p. 44. [1378]

- in Manager of Market What had ensigned by Ruth van Heyningen, 1975 Dec. p. 70 in Manager menokat it as and appendimental.
- Navial 1111, by Richard A. Lerner and Frank J. Dixon, 1973 June p. 52, [1275] in many main stat production as a processing
- THE BEOSPHERE, by Harrison Brown, 1970 Sept. p. 194, [1193] HEMANNE FREITON THE REQUIPMENTS OF, by Nevin S. Scrimshaw and Vernon R. Young.
- 1976 Sept. p. 50.

 HI MAN ORIGINAL POPULATION GENETICS AND, by
- Robert B. Eckhardt, 1972 Jan. p. 94. [676] HE MANAGORT ENTROP. THE, 1974 Sept. Histo. HE MANAGORT EATION, THE, by Edward S. Deevey,
- Jr., 1960 Sept. p. 194 [605] HI MANNOELLATION THE, by Ronald Freedman and Bernard Berelson, 1974 Sept. p. 30.
- III MAN FOR LATION, THE HISTORY OF THE, by Analey J. Coale, 1974 Sept. p. 40.
- HUMAN FOR LLATION, THE LABANIZATION OF THE, by Kingsley Davis, 1965 Sept. p. 40, [659] HUMAN FOR ELATIONS THE MIGRATIONS OF, by
- Kingoley Davis, 1974 Sept. p. 92. III MAN RELADID CTION, THE PHYSIOLOGY OF, by Sheldon J. Segal, 1974 Sept. p. 52.
- HUMAN RESOLUCIS OF THE U.S. THE, 1951 Sept.
- HUMAN SKIN, LIFE ON THE, by Mary J. Marples, 1969 Jun. p. 103. [1132]
- HUMAN SPECIES, THE, 1960 Sept. 1880e. HUMAN STONES, by Kathleen Lonsdale, 1968 Dec. p. 104.
- HUMAN SUBJECTS, THE ETHICS OF EXPERIMENTATION WITH, by Bernard Barber, 1976 Feb. p. 25
- HUMAN THERMOSTAT THE, by T. H. Benzinger, 1961 Jan p. 134 [129]
- HUMAN WALKING THE ANTIQUITY OF, by John Napier, 1967 Apr. p. 56. [1070]
- P Pearson, 1953 Jan. p 69.
- HE MOR RESPONSES TO, by Jacob Levine, 1956 Feb p. 31. [435]
- HUNGER, THE DIMENSIONS OF HUMAN, by Jean Mayer, 1976 Sept. p. 40.
- HUNTERS CAMP ASTONE AGE, by Grahame Clark, 1952 May p. 20
- HUNTI RS OF THE UKRAINE ICE-AGE, by Richard G. Klein, 1974 June p. 96. [685]
- HUNTERS VILLAGE IN NEOLITHIC TURKEY A, by Dexter Perkins, Jr., and Patricia Daly, 1968 Nov. p. 96.
- HUNTING IN NORTH AMERICA., ELEPHANT., by C Vance Haynes, Jr., 1966 June p 104. HUNTING SOCIETS, THE FLOW OF ENERGY IN A, by
- William B. Kemp, 1971 Sept. p. 104. [665] HURRICANE MODIFICATION, EXPERIMENTS IN, by R. H. Simpson and Joanne S. Malkus, 1964
- Dec. p. 27.

 HURRICANES, by R. H. Simpson, 1954 June p 32

 HURRICANES, THE ORIGIN OF, by Joanne Starr

 Malkus, 1957 Aug p. 33. [847]
- HUSBANDRY IN AFRICA, WILDLIFE, by F. Fraser Darling, 1960 Nov. p. 123.
- HUTTERITES, THE MENTAL HEALTH OF THE, by Joseph W. Eaton and Robert J. Weil, 1953 Dec. p. 31. [440]
- HYBRID CELLS AND HUMAN GENES, by Frank H. Ruddle and Raju S. Kucherlapati, 1974 July p. 36. [1300]
- HYBRID CORN, by Paul C. Mangelsdorf, 1951 Aug. p. 39. [1150]
- HYBRID NUCLEIC ACIDS. by S. Spiegelman, 1964 May p. 48.
- HYBRID SOMATIC CELLS, by Boris Ephrussi and Mary C. Weiss, 1969 Apr. p. 26. [1137]

HYBRID WHEAT, by Byrd C. Curtis and David R. Johnston, 1969 May p. 21.

HYDRA AS A MODEL FOR THE DEVELOPMENT OF BIOLOGICAL FORM, by Alfred Gierer, 1974 Dec. p. 44. [1309]

HYDRA, THE INDESTRUCTIBLE, by N. J. Berrill, 1957 Dec. p. 118.

HYDRA, THE SEX GAS OF, by W. F. Loomis, 1959 Apr. p. 145.

HYDRAULIC TECHNOLOGY, ROMAN, by Norman Smith, 1978 May p. 154. [3009]

HYDRAZINE, by Lawrence P. Lessing, 1953 July p. 30.

HYDROGEN BOMB: IV. THE, by Ralph E. Lapp, 1950 June p. 11.

HYDROGEN BOMB, THE, by Louis N. Ridenour, 1950 Mar. p. 11.

HYDROGEN BOMB, THE DEBATE OVER THE, by Herbert F. York, 1975 Oct. p. 106.

HYDROGEN BOMB: III, THE, by Robert F. Bacher, 1950 May p. 11.

HYDROGEN BOMB: II, THE, by Hans A. Bethe, 1950 Apr. p. 18.

HYDROGEN ECONOMY, THE, by Derek P. Gregory, 1973 Jan. p. 13.

HYDROGEN IN GALAXIES, by Morton S. Roberts, 1963 June p. 94.

HYDROGEN. RADIO WAVES FROM INTERSTELLAR, by Harold I. Ewen, 1953 Dec. p. 42.

HYDROXYL RADICALS IN SPACE, by Brian J. Robinson, 1965 July p. 26.

HYDROXYL RADICALS, RADIO SIGNALS FROM, by Alan H. Barrett, 1968 Dec. p. 36.

HYPERACTIVE CHILDREN, by Mark A. Stewart, 1970 Apr. p. 94. [527]

HYPERNUCLEI, by V. L. Telegdi, 1962 Jan. p. 50. HYPERSENSITIVITY, DELAYED, by Alfred J. Crowle, 1960 Apr. p. 129.

HYPNOSIS, EXPERIMENTS IN, by Theodore X. Barber, 1957 Apr. p. 54.

HYPODERMIC MEDICATION, THE ORIGINS OF, by Norman Howard-Jones, 1971 Jan. p. 96. HYPOTHALAMUS, THE HORMONES OF THE, by

Roger Guillemin and Roger Burgus, 1972 Nov. p. 24. [1260]

HYPOTHERMIA, by Raymond J. Hock and Benjamin G. Covino, 1958 Mar. p. 104.

1

ICARUS, THE DISCOVERY OF, by Robert S.
Richardson, 1965 Apr. p. 106.
ICE, by L. K. Runnels, 1966 Dec. p. 118. [307]
ICE-AGE HUNTERS OF THE UKRAINE, by Richard
G. Klein, 1974 June p. 96. [685]

ICE AGE, LIVING RECORDS OF THE, by Edward S. Deevey, Jr., 1949 May p. 48. [834]

ICE AGE, THE GREAT INFRA-CAMBRIAN, by W. Brian Harland and Martin J. S. Rudwick, 1964 Aug. p. 28.

ICE FISH, THE, by Johan T. Ruud, 1965 Nov. p. 108. ICE ISLANDS IN THE ARCTIC, by Kaare Rodahl,

1954 Dec. p. 40.
ICE OF THE ANTARCTIC, THE, by Gordon de Q.

Robin, 1962 Sept. p. 132. [861] ICE ORIGIN OF THE, by George Gamow, 1948

Oct. p. 40.

IDEA OF MAN'S ANTIQUITY, THE, by Glyn E.
Daniel, 1959 Nov. p. 167.

IDEOLOGY SHAPES WOMEN'S LIVES, HOW, by Jean Lipman-Blumen, 1972 Jan. p. 34. "IF A SLAVE GIRL FLED..", by Francis R. Steele, 1948 June p. 44. ILLNESS, THE RECORD OF HUMAN, by Wilton M. Krogman, 1949 Jan. p. 52.

ILLS OF MAN. THE, by John H. Dingle, 1973 Sept. p. 76.

ILLUSION OF MOVEMENT, THE, by Paul A. Kolers, 1964 Okt. 98. [487]

ILLUSION. THE MOON, by Lloyd Kaufman and Irvin Rock, 1962 July p. 120. [462]

ILLUSIONS AND CONFUSIONS, AUDITORY, by Richard M. and Roslyn P. Warren, 1970 Dec. p. 30, [531]

ILLUSIONS, MUSICAL, by Diana Deutsch, 1975 Oct. p. 92. [566]

ILLUSIONS OF MIGRAINES, THE FORTIFICATION, by Whitman Richards, 1971 May p. 88. [536] ILLUSIONS, VISUAL, by Richard L. Gregory, 1968

Nov. p. 66. [517]
IMAGE RECONSTRUCTION FROM PROJECTIONS, by
Richard Gordon, Gabor T. Herman and
Steven A. Johnson, 1975 Oct. p. 56.

IMAGE, THE VISUAL, by E. H. Gombrich, 1972 Sept. p. 82. [548]

IMAGES ARE DETECTED, How, by R. Clark Jones, 1968 Sept. p. 110.

IMAGES ARE FORMED, HOW, by F. Dow Smith, 1968 Sept. p. 96.

IMAGES, EIDETIC, by Ralph Norman Haber, 1969 Apr. p. 36. [522]

IMAGES ON THE RETINA. STABILIZED, by Roy M. Pritchard, 1961 June p. 72. [466]

IMAGINATION. THE PHYSIOLOGY OF, by John C. Eccles, 1958 Sept. p. 135. [65]

IMAGINATION, THE PSYCHOLOGY OF, by Frank Barron, 1958 Sept. p. 150. [432]

IMITATION OF LIFE AN, by W. Grey Walter, 1950 May p. 42.

IMITATIVE DRUGS. THE, by Richard O. Roblin, Jr., 1951 Apr. p. 60.

IMMUNE RESPONSE TO A VIRUS CAN CAUSE DISEASE, HOW THE, by Abner Louis Notkins and Hilary Koprowski, 1973 Jan. p. 22. [1263]

IMMUNE SYSTEM. THE, by Niels Kaj Jerne, 1973
July p. 52. [1276]

IMMUNE SYSTEM, THE DEVELOPMENT OF THE, by Max D. Cooper and Alexander R. Lawton III, 1974 Nov. p. 58. [1306]

IMMUNITY, THE MECHANISM OF, by Sir Macfarlane Burnet, 1961 Jan. p. 58. [78]

IMMUNOELECTROPHORESIS, by Curtis A.
Williams, Jr., 1960 Mar. p. 130. [84]
IMMUNOLOGY CANCER, by Lloyd J. Old, 1977

May p. 62. [1358] IMMUNOLOGY, CELL-SURFACE, by Martin C. Raff, 1976 May p. 30. [1338]

IMPACT FRAGMENTS FROM THE MOON, TEXTITES AND, by John A. O'Keefe, 1964 Feb. p. 50. IMPACT, HIGH-SPEED, by A. C. Charters, 1960 Oct. p. 128.

IMPLANTATION ION, by Frederick F. Morehead, Jr., and Billy L. Crowder, 1973 Apr. p. 64.

importation of Liquefied Natural Gas, the, by Elisabeth Drake and Robert C. Reid, 1977 Apr. p. 22. [353]

"IMPRINTING" IN A NATURAL LABORATORY, by Eckhard H. Hess, 1972 Aug. p. 24. [546] "IMPRINTING" IN ANIMALS, by Eckhard H. Hess, 1958 Mar. p. 81. [416]

INCLUSION COMPOUNDS, by John F. Brown, Jr., 1962 July p. 82. [280]

INCOME-TAX EXPERIMENT. A NEGATIVE-, by David N. Kershaw, 1972 Oct. p. 19.

incriminating stains, by Charles E. O'Hara and James W. Osterburg, 1953 Feb. p. 58. Incubator Birds, by H. J. Frith, 1959 Aug. p. 52.

INDESTRUCTIBLE HYDRA, THE, by N. J. Berrill, 1957 Dec. p. 118.

INDIA AND EURASIA. THE COLLISION BETWEEN, by Peter Molnar and Paul Tapponnier, 1977 Apr. p. 30. [923]

INDIA. LIVING PREHISTORY IN, by D. D. Kosambi, 1967 Feb. p. 104.

INDIA. THE AGRICULTURE OF, by John W. Mellor, 1976 Sept. p. 154.

INDIA. THE DEVELOPMENT OF, by Pitambar Pant, 1963 Sept. p. 189.

INDIA, THE "UNTOUCHABLES" OF, by M. N. Srínivas and André Béteille, 1965 Dec. p. 13.

INDIAN BURIAL MOUND IN LABRADOR, AN ARCHAIC, by James A. Tuck and Robert J. McGhee, 1976 Nov. p. 122.

INDIAN CEMETERY IN NEWFOUNDLAND, AN ARCHAIC, by James A. Tuck, 1970 June p. 112. 16571

INDIAN OCEAN, THE EVOLUTION OF THE, by D. P. McKenzie and J. G. Sclater, 1973 May p. 62. [908]

INDIAN, THE ENDURING, by Oliver La Farge, 1960 Feb. p. 37.

INDIAN VILLAGE. POPULATION TRENDS IN AN, by Carl E. Taylor, 1970 July p. 106. [1184] INDIVIDUALITY, MARKERS OF BIOLOGICAL, by

Ralph A. Reisfeld and Barry D. Kahan, 1972 June p. 28. [1251]

INDOCHINA. THE CRATERING OF, by Arthur H. Westing and E. W. Pfeiffer, 1972 May p. 20. [1248]

INDO-EUROPEAN LANGUAGE, THE, by Paul Thieme, 1958 Oct. p. 63.

induced mutations in plants, by Björn Sigurbjörnsson, 1971 Jan. p. 86. [1210]

INDUCTION COIL, THE, by George Shiers, 1971 May p. 80.

INDUCTION OF CANCER BY VIRUSES, THE, by Renato Dulbecco, 1967 Apr. p. 28. [1069] INDUCTION OF INTERFERON, THE, by Maurice R.

Hilleman and Alfred A. Tytell, 1971 July p. 26. [1226]
INDUSTRIAL MANIPULATORS, by Ralph S.

Mosher, 1964 Oct. p. 88.

industrial productivity, by Seymour Melman, 1955 July p. 33.

INDUSTRIAL SOCIETY, THE FLOW OF ENERGY IN AN, by Earl Cook, 1971 Sept. p. 134. [667] INERTIA, by Dennis Sciama, 1957 Feb. p. 99.

INERTIAL NAVIGATION FOR AIRCRAFT, by
Cornelius T. Leondes, 1970 Mar. p. 80.
INFANCY. STIMULATION IN, by Seymour Levine,

1960 May p. 80. [436] INFANT MONKEYS, LOVE IN, by Harry F. Harlow, 1959 June p. 68. [429]

INFANT SPEECH, by Orvis C. Irwin, 1949 Sept. p. 22. [417]

INFANT. THE CRY OF THE HUMAN, by Peter F.
Ostwald and Philip Peltzman, 1974 Mar.
p. 84. [558]

INFANT, THE LUNG OF THE NEWBORN, by Mary Ellen Avery, Nai-San Wang and H. William Taeusch, Jr., 1973 1973 Apr. p. 74

Taeusch, Jr., 1973 1973 Apr. p. 74.
INFANT. THE OBJECT IN THE WORLD OF THE, by T.
G. R. Bower, 1971 Oct. p. 30. [539]

INFANT, THE ROLE OF THE HEARTBEAT IN THE RELATIONS BETWEEN MOTHER AND, by Lee Salk, 1973 May p. 24.

infant vision, by Arnold Gesell, 1950 Feb. p. 20. [401]

INFANTS, THE VISUAL WORLD OF, by T. G. R. Bower, 1966 Dec. p. 80. [502]

INFANTS THINK?, DO, by Jerome Kagan, 1972 Mar. p. 74. [542] INFECTION, HISTOPLASMOSIS: THE UNKNOWN, by

Martin Gumpert, 1948 June p. 12. INFECTIONS AND HUMAN DISEASE, ANIMAL, by Meir Yoeli, 1960 May p. 161.

- INI ECTIOUS DRUG RESISTANCE, by Tsutomu Watanabe, 1967 Dec p 19
- INFECTIOUS DRUG RI SISTANCE, THE MOLFCULE OF, by Royston C Clowes, 1973 Apr p 18 [1269] INFINITY' IS THERE AN, by Hans Hahn, 1952 Nov p 76
- INFLATION 1953 1975 THE ANATOMY OF, by W Halder Fisher, 1971 Nov p 15
- INFLUENCE OF ALBERT EINSTLIN THE, by Banesh Hoffmann, 1949 Mar p 52
- INFLUENZA THE EPIDEMIOLOGY OF, by Martin M Kaplan and Robert G Webster, 1977 Dec p 88 [1375]
- INFLUENZA VIRUS THE, by Sir Macfarlane Burnet, 1953 Apr p 27
- INFLUENZA VIRUS THE STRUCTURE OF THE, by Sir Macfarlane Burnet, 1957 Feb p 37
- INFORMATION, 1966 Sept issue
- information, by John McCarthy, 1966 Sept p 64
- INFORMATION, by Gilbert W King, 1952 Sept p 132
- INFORMATION AND MEMORY, by George A Miller, 1956 Aug p 42 [419]
- INFORMATION ENERGY AND, by Myron Tribus and Edward C McIrvine, 1971 Sept p 179 [670]
- INFORMATION PROCESSING BILINGUALISM AND, by P A Kolers, 1968 Mar p 78
- INFORMATION STORAGE AND RETRIEVAL, by Ben-Ami Lipetz, 1966 Sept p 224
- INFORMATION THEORY AND MELODY, by Richard C Pinkerton, 1956 Feb p 77
- INFORMATION TRANSFER IN THE LIVING CELL, by George Gamow, 1955 Oct p 70
- INFRA CAMBRIAN ICE AGE, THE GREAT, by W Brian Harland and Martin J S Rudwick, 1964 Aug p 28
- INFRARED ASTRONOMY, by Bruce C Murray and James A Westphal, 1965 Aug p 20
- INFRARED ASTRONOMY BY BALLOON, by John Strong, 1965 Jan p 28
- INFRARED CHEMICAL ANALYSIS BY, by Bryce Crawford, Jr, 1953 Oct p 42 [257]
- INFRARED RECEPTORS OF SNAKES THE, by R Igor Gamow and John F Harris, 1973 May p 94 [1272]
- INFRARED SKY THE, by G Neugebauer and Robert B Leighton, 1968 Aug p 50
- INFRARED SOURCES THE BRIGHTEST, by G
 Neugebauer and Eric E Becklin, 1973 Apr
 p 28
- INHERITED SENSE DEFECTS, by H Kalmus, 1952 May 64 [406]
- INHIBITION IN THE CENTRAL NERVOUS SYSTEM, by Victor J. Wilson, 1966 May p. 102 INHIBITION IN VISUAL SYSTEMS, by Donald
- Kennedy, 1963 July p 122 [162] INHIBITION THE DYNAMICS OF, by Ralph W
- Gerard, 1948 Sept p 44
 INNOVATION IN BIOLOGY, by George Wald, 1958
- Sept p 100 [48] INNOVATION IN MATHEMATICS, by Paul R
- Halmos, 1958 Sept p 66 INNOVATION IN PHYSICS, by Freeman J Dyson,
- 1958 Sept p 74
 INNOVATION IN SCIENCE, 1958 Sept issue
 INNOVATION IN TECHNOLOGY, by John R Pierce,
- 1958 Sept p 116 INORGANIC POLYMERS, by Harry R Allcock, 1974 Mar p 66
- INPUT OUTPUT ECONOMICS, by Wassily W Leontief, 1951 Oct p 15
- INPUTS AND OUTPUTS COMPUTER, by Ivan E
 Sutherland, 1966 Sept p 86

- INSLCT AND A PLANT AN, by Stanley D Beck, 1958 May p 87
- INSECT ASSASSINS, by John S Edwards, 1960 June p 72
- INSECT ATTRACTANTS, by Martin Jacobson and Morton Beroza, 1964 Aug p 20 [189]
- Feb p 28
- INSECT CONTROL AND THE BALANCE OF NATURE, by Ray F Smith and William W Allen, 1954 June p 38
- INSECT EGGSHELLS, by H E Hinton, 1970 Aug p 84 [1187]
- INSECT FLIGHT, by Brian Hocking, 1958 Dec p 92
- INSECT VISION, by Lorus J and Margery J Milne, 1948 July p 42
- INSECT WEED CONTROL BY, by James K Holloway, 1957 July p 56
- INSECTICIDES INSECTS V, by Robert L Metcalf, 1952 Oct p 21
- INSECTICIDES LIVING, by Edward A Steinhaus, 1956 Aug p 96
- INSECTS AND PLANT GALLS, by William Hovanitz, 1959 Nov p 151
- D Beck, 1960 Feb p 108
- Nov p 56 [838]
- INSECTS OF THE WATER SURFACE, by Lorus J and Margery J Milne, 1978 Apr p 134 [1387]
- INSECTS POLARIZED LIGHT NAVIGATION BY, by Rudiger Wehner, 1976 July p 106 [1342]
- INSECTS THE AERIAL MIGRATION OF, by C G Johnson, 1963 Dec p 132 [173]
- INSECTS THE BIOLOGICAL CLOCK OF, by D S Saunders, 1976 Feb p 114 [1335]
- INSECTS THE COMPOUND EYE OF, by G Adrian Horridge, 1977 July p 108 [1364]
- INSECTS THE FLIGHT MUSCLES OF, by David S Smith, 1965 June p 76 [1014]
- INSECTS THE FUNGUS GARDENS OF, by Lekh R and Suzanne W T Batra, 1967 Nov p 112 [1086]
- INSECTS THE METAMORPHOSIS OF, by Carroll M Williams, 1950 Apr p 24
- INSECTS V INSECTICIDES, by Robert L Metcalf, 1952 Oct p 21
- INSIDE OUT TURNING A SURFACE, by Anthony Philips, 1966 May p 112
- INSTINCT IS LEARNED HOW AN, by Jack P
- Hailman, 1969 Dec p 98 [1165] INSTINCTS SOCIAL, by Ashley Montagu, 1950 Apr p 54
- INSTRUMENT PANEL PSYCHOLOGY AND THE by Alphonse Chapanis, 1953 Apr p 74 [496]
- INSTRUMENTATION AND CONTROL. THE ROLE OF MICROELECTRONICS IN, by Bernard M Oliver, 1977 Sept p 180 [381]
- INSTRUMENTS IN PROCESS CONTROL ANALYTIC, by F W Karasek, 1969 June p 112
- INSULIN MOLECULE, THE, by E O P Thompson, 1955 May p 36
- INSULIN THE ACTION OF, by Rachmiel Levine and
- M S Goldstein, 1958 May p 99
 INTEGRATED COMPUTER MEMORIES, by Jan A
- Rajchman, 1967 July p 18 INTEGRATED OPTICS, by P K Tien, 1974 Apr
- p 28
 INTEGRATION ATTITUDES TOWARD RACIAL, by
 Andrew M Greeley and Paul B Sheatsley,
 1971 Dec p 13 [673]
- INTEGRATION ATTITUDES TOWARD RACIAL, by D Garth Taylor, Paul B Sheatsley and Andrew M Greeley, 1978 June p 42 [707]
- integration in electronics large-scale, by F G Heath, 1970 Feb p 22

- INTELLECTUAL RESOURCES, by Dael Wolfle, 1951 Sept p 42
- intelligence and race, by Walter F Bodmer and Luigi Luca Cavalli-Sforza, 1970 Oct p 19 [1199]
- INTELLIGENCE, ANIMAL, by Carl J Warden 1951
 June p 64
- Minsky, 1966 Sept p 246 [313]
- INTELLIGENCE OF ELEPHANTS THE, by Bernhard Rensch, 1957 Feb p 44
- INTELLIGENCE, THE EVOLUTION OF, by M E Bitterman, 1965 Jan p 92 [490] INTELLIGENCE, THE SEARCH FOR
- EXTRATERRESTRIAL, by Carl Sagan and Frank Drake, 1975 May p 80 [347]
- INTENSE MAGNETIC FIELDS, by Henry H Kolm and Arthur J Freeman, 1965 Apr p 66 INTENSIVE HEART CARE, by Bernard Lown, 1968
- July p 19
- INTERACTION OF LIGHT WITH LIGHT THE, by J A Giordmaine, 1964 Apr p 38
- INTERACTIONS BETWEEN HORMONES AND NERVE TISSUE, by Bruce S McEwen, 1976 July p 48 [1341]
- INTERACTIONS THE WEAK, by S B Treiman, 1959 Mar p 72 [247]
- INTERACTIVE HUMAN COMMUNICATION, by Alphonse Chapanis, 1975 Mar p 36
- INTERCELLULAR COMMUNICATION, by Werner R. Loewenstein, 1970 May p 78 [1178]
- INTERCONTINENTAL RADIO ASTRONOMY, by K I Kellermann, 1972 Feb p 72
- INTERFERENCE COATINGS OPTICAL, by Philip Baumeister and Gerald Pincus, 1970 Dec p 58
- interference theory of forgetting the, by John Ceraso, 1967 Oct p 117 [509]
- INTERFERON, by Alick Isaacs, 1961 May p 51 [87]
- INTERFERON THE INDUCTION OF, by Maurice R Hilleman and Alfred A Tytell, 1971 July p 26 [1226]
- INTERFERON THE STATUS OF, by Derek C Burke, 1977 Apr p 42 [1356]
- INTERGROUP DISCRIMINATION EXPERIMENTS IN, by Henri Tajfel, 1970 Nov p 96 [530]
- INTERIOR OF THE EARTH THE, by K E Bullen, 1955 Sept p 56 [804]
- INTERNAL OPIATES OPIATE RECEPTORS AND, by Solomon H Snyder, 1977 Mar p 44 [1354] INTERNAL ORGANS ARTIFICIAL, by Peter F Salisbury, 1954 Aug p 24
- INTERNATIONAL COMPARISONS OF MEDICAL CARE
 by Kerr L White, 1975 Aug p 17
- INTERNATIONAL CONTROL OF DISARMAMENT THE, by Alva Myrdal, 1974 Oct p 21
- INTERNATIONAL COOPERATION IN NUCLEAR POWER, by Donald J. Hughes, 1955 Apr. p. 31 INTERNATIONAL STABILITY NUCLEAR POWER
- NUCLEAR WEAPONS AND, by David J Rose and Richard K Lester, 1978 Apr p 45 [3004] INTERPLANETARY NAVIGATION, by Aubrey B
- Mickelwait, Edwin H Tompkins Jr and Robert A Park, 1960 Mar p 64
- INTERPLANETARY PARTICLES AND FIELDS by James A Van Allen, 1975 Sept p 160 INTERSTELLAR GRAINS by J Mayo Greenberg 1967 Oct p 106
- INTERSTELLAR HYDROGEN RADIO WAVES FROM by Harold I Ewen 1953 Dec p 42 INTERSTELLAR MEDIUM THE STRUCTURE OF THE, by Carl Heiles, 1978 Jan p 74 [394] INTERSTELLAR MOLECULES, by Barry E Turner,
- 1973 Mar p 50
 INTERVIEW WITH LINSTEIN AN by I Bernard

Cohen 1955 July p 68

INTRAVENOUS FEEDING TOTAL, by Stanley J Dudrick and Jonathan E Rhoads, 1972 May p 73

INTUITION GEOMETRY AND, by Hans Hahn, 1954
Apr p 84

INVENTION OF ANALYTIC GEOMETRY THE, by Carl B Boyer, 1949 Jan p 40

INVENTION OF THE ELECTRIC LIGHT THE, by
Matthew Josephson, 1959 Nov p 98
INVERTEBRATES ESCAPE RESPONSES IN MARINE, by
Howard M Feder, 1972 July p 92 [1254]

ION EXCHANGE, by Harold F Walton, 1950 Nov p 48

ION IMPLANTATION, by Frederick F Morehead, Jr, and Billy L Crowder, 1973 Apr p 64
IONIZING RADIATION, 1959 Sept Issue
IONIZING RADIATION AND EVOLUTION, by James

F Crow, 1959 Sept p 138 [55]
IONIZING RADIATION AND MEDICINE, by Shields
Warren, 1959 Sept p 164

IONIZING RADIATION AND METALS, by Douglas S Billington, 1959 Sept p 200

IONIZING RADIATION AND ORGANIC CHEMISTRY, by A Charlesby, 1959 Sept p 180

IONIZING RADIATION AND THE WHOLE ANIMAL, by
John F Loutit, 1959 Sept p 117

IONIZING RADIATION AND THE LIVING CELL, by Alexander Hollaender and George E Stapleton, 1959 Sept p 94

IONIZING RADIATION AND THE CITIZEN, by George W Beadle, 1959 Sept p 219 [1214] IONIZING RADIATION? WHAT IS, by Robert L

Platzman, 1959 Sept p 74

IONOSPHERE THE, by T N Gautier, 1955 Sept p 126

IRAN AN EARLY CITY IN, by C C and Martha Lamberg-Karlovsky, 1971 June p 102 [660] IRAN THE QANATS OF, by H E. Wulff, 1968 Apr p 94

IRANIAN ARCHITECTURE PASSIVE COOLING
SYSTEMS IN, by Mehdi N Bahadori, 1978 Feb
p 144 [705]

IRON AGE BEGAN HOW THE, by Robert Maddin, James D Muhly and Tamara S Wheeler, 1977 Oct p 122 [699]

IRON LABRADOR, by Herbert Yahraes, 1948 Nov

RON ORE, THE DIRECT REDUCTION OF, by Jack Robert Miller, 1976 July p. 68

IRON ORES. THE BENEFICIATION OF, by M M
Fine, 1968 Jan p 28

IROQUOIS CONFEDERACY THE, by James A Tuck, 1971 Feb p 32 [658]

IRRIGATION CENTER PIVOT, by William E Splinter, 1976 June p 90

IRRIGATION DRIP, by Kobe Shoji, 1977 Nov p 62 [1371]

IS GRAVITY GETTING WEAKER?, by Thomas C Van Flandern, 1976 Feb p 44

IS MAN ALONE IN SPACE? by Loren C Eiseley, 1953 July p 80

IS MAN HERE TO STAY?, by Loren C Esseley, 1950 Nov p 52

IS THE ATOMIC BOMB AN ABSOLUTE WEAPON? by P
M S Blackett, 1949 Mar p 13
IS THERE AN INFINITY? by Hans Hahn, 1952 Nov

p 76 ISHANGO, by Jean de Heinzelin, 1962 June

p 105
ISIMILA A PALEOLITHIC SITE IN AFRICA, by F

Clark Howell 1961 Oct p 118
ISLANDS IN THE ARCTIC ICE, by Kaare Rodahl,

1954 Dec p 40

ISOLATION OF GENES THE, by Donald D Brown, 1973 Aug p 20 [1278]

ISOLATORS, GERM FREE, by P C Trexler, 1964
July p 78

ISOMERS IN VISION MOLECULAR, by Ruth Hubbard and Allen Kropf, 1967 June p 64 [1075]

isotopes laser separation of, by Richard N Zare, 1977 Feb p 86 [354]

ISOTOPES THE AEC'S, 1949 Apr p 16

ISOTOPES THE CIRCULATION OF RADIOACTIVE, by James R. Arnold and E. A. Martell, 1959
Sept. p. 84

ITALIAN POPULATION GENETIC DRIFT IN AN, by Luigi Luca Cavalli-Sforza, 1969 Aug p 30

J

JAPAN THE DIVING WOMEN OF KOREA AND, by Suk K1 Hong and Hermann Rahn, 1967 May p 34 [1072]

JAPAN THE ECONOMIC GROWTH OF, by James C Abegglen, 1970 Mar p 31

JAPANESE MACAQUES THE SOCIAL ORDER OF, by G Gray Eaton, 1976 Oct p 96 [1345]

JENNER THE PREVENTION OF SMALLPOX BEFORE, by William L. Langer, 1976 Jan p 112
JERICHO ANCIENT, by Kathleen M. Kenyon,

JERICHO ANCIENT, by Kathleen M. Kenyon,
1954 Apr. p. 76

JERUSALEM ANCIENT, by Kathleen M. Kenyon,

1965 July p 84
JET STREAM THE, by Jerome Namias, 1952 Oct

p 26
JET STREAMS LOW ALTITUDE, by Morton L

Barad, 1961 Aug p 120
JEWISH COMMUNITY OF ROME, THE, by Leslie C
and Stephen P Dunn, 1957 Mar p 118

JOB PROBLEM THE, by Eli Ginzberg, 1977 Nov p 701 [701]

JOCULAR PHYSICS, by O R Frisch, Anonymous and H B G Casimir, 1956 Mar p 93

JOEY A MECHANICAL BOY, by Bruno Bettelheim, 1959 Mar p 116 [439] JOINT THE SURGICAL REPLACEMENT OF THE

HUMAN KNEE, by David A Sonstegard, Larry S Matthews and Herbert Kaufer, 1978 Jan p 44 [1378]

JORDAN VALLEY PLAN THE, by Maurice A Garbell, 1965 Mar p 23

JOSEPHSON EFFECTS THE, by Donald N
Langenberg, Douglas J Scalapino and Barry
N Taylor, 1966 May p 30

JOURNAL BEARING THE, by John C Bierlein, 1975 July p 50

JUDAISM AT THE TIME OF CHRIST, by Michael E Stone, 1973 Jan p 80

Stone, 1973 Jan p 80
JUDGMENTS THE RELATIVISM OF ABSOLUTE, by

Allen Parducci, 1968 Dec p 84 [518]
JUNCTION DIODE AMPLIFIERS, by Arthur Uhlir,
Jr., 1959 June p 118

JUNCTION TRANSISTOR, THE, by Morgan Sparks, 1952 July p 28

JUNCTIONS BETWEEN LIVING CELLS, by L Andrew Staehelin and Barbara E Hull, 1978 May p 140 [1388]

JUPITER, by John H Wolfe, 1975 Sept p 118
JUPITER RADIO WAVES FROM, by K L Franklin,
1964 July p 34

JUPITER, THE CHEMISTRY OF, by Francis Owen Rice, 1956 June p 119

JUPITER, THE GALILEAN SATELLITES OF, by Dale P Cruikshank and David Morrison, 1976 May p 108

JUPITER, THE METEOROLOGY OF, by Andrew P

Ingersoll, 1976 Mar p 46
JUPITER'S GREAT RED SPOT, by Raymond Hide,

1968 Feb p 74
JUVENILE HORMONE, THE, by Carroll M
Williams, 1958 Feb p 67

K

KANGAROOS, by T J Dawson, 1977 Aug p 78 [1366]

KEPLER DISCOVER HIS FIRST TWO LAWS? HOW DID, by Curtis Wilson, 1972 Mar p 92 KERATINS, by R D B Fraser, 1969 Aug p 86

KERATINS, by R. D. B. Fraser, 1969 Aug. p. 86
[1155]

KEY TO THE KEY THEORY A, by Anonymous, 1956
Mar p 94
WARNEY THE by Homes W. Smyb. 1953 Jan.

kidney The, by Homer W Smith, 1953 Jan p 40 [37]

KIDNEY THE ARTIFICIAL, by John P Merrill, 1961
July p 56
KIDNEY THE TRANSPLANTATION OF THE, by John

P Merrill, 1959 Oct p 57

KILOMEGACYCLE, ULTRASONICS, by Klaus Dransfeld, 1963 June p 60

KIMBERLITE PIPES, by Keith G Cox, 1978 Apr p 120 [931]

KING GEORGE III PORPHYRIA AND, by Ida Macalpine and Richard Hunter, 1969 July p 38 [1149]

KING NESTOR'S PALACE, by Carl W Blegen, 1958
May p 110

KININS, by H O J Collier, 1962 Aug p 111 [132]

KINSHIP OF ANIMAL AND HUMAN DISEASES THE, by Robert W Leader, 1967 Jan p 110 KINSHIP PRIMITIVE, by Meyer Fortes, 1959 June p 146

KITTENS LEARNING IN NEWBORN, by Jay S Rosenblatt, 1972 Dec p 18 [552]

KLYSTRON THE, by Edward L. Ginzton, 1954 Mar p 84

KNEE JOINT THE SURGICAL REPLACEMENT OF THE HUMAN, by David A Sonstegard, Larry S Matthews and Herbert Kaufer, 1978 Jan p 44 [1378]

KNOT THE GREAT RAVELLED, by George W Gray, 1948 Oct p 26 [13] KOENIGSBERG BRIDGES LEONHARD EULER AND

THE, by Leonhard Euler, edited by James R Newman, 1953 July p 66 KOREA AND JAPAN THE DIVING WOMEN OF, by Suk

Ki Hong and Hermann Rahn, 1967 May
p 34 [1072]

KRAKATOA THE PLANTS OF, by F W Went, 1949
Sept p 52

KUANYAMA AMBO THE, by Edwin W Loeb, 1950
Oct p 52

kwashiorkor, by Hugh C Trowell, 1954 Dec p 46

L

LA GOMERA THE WHISTLED LANGUAGE OF, by Andre Classe, 1957 Apr p 111 LABOR FORCE, by Ewan Clague, 1951 Sept p 36 LABOR OBSTETRICAL, by Samuel R M Reynolds,

1950 Mar p 52

LABORATORIES THE YERKES, by George W Gray,

1955 Feb p 67
LABORATORIES THE YERKES, by George W Gray
1954 Feb p 67
LABORATORY "IMPRINTING IN A NATURAL, by

Eckhard H Hess, 1972 Aug p 24 [546]
LABRADOR AN ARCHAIC INDIAN BURIAL MOUND
IN, by James A Tuck and Robert J McGhee,
1976 Nov p 122

LABRADOR IRON, by Herbert Yahraes, 1948 Nov

LACRIMAL GLAND TEARS AND THE, by Stella Y Botelho, 1964 Oct p 78

LACTASE LACTOSE AND, by Norman Kretchmer, 1972 Oct p 70 [1259]

- LAKE DWELLERS PREHISTORIC SWISS, by Hansjurgen Müller-Beck, 1961 Dec p 138 LAKES THE AGING GREAT, by Charles F Powers and Andrew Robertson, 1966 Nov p 94 [1056]
- LAMONT GFOLOGICAL OBSERVATORY THE, by George W Gray, 1956 Dec p 83
- LAMPREY THE SEA, by Vernon C Applegate and James W Mosfett, 1955 Apr p 36
- LAND BRIDGE, THE BERING STRAIT, by William G Haag, 1962 Jan p 112
- LAND IN CITIES THE USES OF, by Charles Abrams, 1965 Sept p 150
- LAND OF THE ANTARTIC THE, by G P Woollard, 1962 Sept p 151
- LANGUAGE AND THE BRAIN, by Norman Geschwind, 1972 Apr p 76 [1246]
- LANGUAGE NATURAL SELECTION IN, by Joshua Whatmough, 1952 Apr p 82
- LANGUAGE OF BIRDS THE, by W H Thorpe, 1956 Oct p 128 [145]
- LANGUAGE OF CROWS THE, by Hubert and Mable Frings, 1959 Nov p 119
- Language of homer's heroes the, by Jotham Johnson, 1954 May p 70
- LANGUAGE OF LA GOMERA THE WHISTLED, by Andre Classe, 1957 Apr p 111
- LANGUAGE OF THE BEES DIALECTS IN THE, by Karl von Frisch, 1962 Aug p 78 [130]
- LANGUAGE OF THE BEES MORE ON THE, by Hans Kalmus, 1953 July p 60
- LANGUAGE OF THE BEES THE, by August Krogh, 1948 Aug p 18 [21]
- LANGUAGE THE CHANGING AMERICAN, by Jotham Johnson, 1955 Aug p 78
- LANGUAGE, THE CHINESE, by William S-Y Wang, 1973 Feb p 50
- LANGUAGE, THE EVOLUTION OF BEE, by Harald Esch, 1967 Apr p 96 [1071]
- LANGUAGE, THE INDO-EUROPEAN, by Paul
- Thieme, 1958 Oct p 63 LANGUAGE, THE SPREAD OF THE BANTU, by D W Phillipson, 1977 Apr p 106 [694]
- LANGUAGE TO AN APE TEACHING, by Ann James Premack and David Premack, 1972 Oct p 92 [549]
- LANGUAGES OF FISHES THE CHEMICAL, by John H Todd, 1971 May p 98 [1222]
- LANGUAGES PIDGIN, by Robert A Hall, Jr., 1959 Feb p 124
- LANGUAGES THE AMERICAN, by Hans Kurath, 1950 Jan p 48
- LAPLACE, by James R Newman, 1954 June p 76 LARGE CLOUD OF MAGELLAN THE, by Bart J Bok, 1964 Jan p 32
- LARGER AND OLDER UNIVERSE, A, by George W Gray, 1953 June p 56
- LARGE SCALE INTEGRATION IN ELECTRONICS, by F G Heath, 1970 Feb p 22
- LARGE SCALE INTEGRATION OF MICROELECTRONIC CIRCUITS THE, by William C Holton, 1977 Sept p 82 [376]
- LASER, CELL SURGERY BY, by Michael W Berns and Donald E Rounds, 1970 Feb p 98
- LASER, COMMUNICATION BY, by Stewart E Miller, 1966 Jan p 19
- LASER FUSION BY, by Moshe J Lubin and Arthur P Fraas, 1971 June p 21
- LASER IMPLOSION FUSION POWER BY, by John L Emmett, John Nuckolls and Lowell Wood, 1974 June p 24
- LASER LIGHT, by Arthur L Schawlow, 1968 Sept
- LASER LIGHT APPLICATIONS OF, by Donald R Herriott, 1968 Sept p 140

- LASER LIGHT THE MODULATION OF, by Donald F. Nelson, 1968 June p 17
- LASER LIGHT THE PRESSURE OF, by Arthur Ashkin, 1972 Feb p 62
- LASLR MEASURING EARTH STRAINS BY, by Victor Vali, 1969 Dec. p. 88
- LASER PHOTOGRAPHY BY, by Emmett N Leith and Juris Upatnieks, 1965 June p 24
- LASER REFLECTOR THE LUNAR, by James E Faller and E Joseph Wampler, 1970 Mar p 38
- LASER SEPARATION OF ISOTOPES, by Richard N Zare, 1977 Feb p 86 [354]
- LASER SPECTROSCOPY, by M S Feld and V S Letokhov, 1973 Dec p 69
- Panish and Izuo Hayashi, 1971 July p 32
- LASERS CHEMICAL, by George C Pimentel, 1966 Apr p 32 [303]
- LASERS HIGH POWER CARBON DIOXIDE, by C K N Patel, 1968 Aug p 22
- LASERS LIQUID, by Alexander Lempicki and Harold Samelson, 1967 June p 80
- LASERS METAL VAPOR, by William T Silfvast, 1973 Feb p 88
- LASERS ORGANIC, by Peter Sorokin, 1969 Feb p 30
- L ASPARAGINE AND LEUKEMIA, by Lloyd J Old, Edward A Boyse and H A Campbell, 1968 Aug p 34
- LAST OF THE GREAT WHALES THE, by Scott McVay, 1966 Aug p 13
- LATE BLIGHT OF POTATOES, THE, by John S Niederhauser and William C Cobb, 1959 May p 100 [109]
- LATERITIC SOILS, by Mary McNeil, 1964 Nov p 96 [870]
- LATHE THE ORIGINS OF THE, by Robert S Woodbury, 1963 Apr p 132
- LAVOISIER, by Denis I Duveen, 1956 May p 84 LAW BEHAVIORAL SCIENCE AND CRIMINAL, by Edward J Sachar, 1963 Nov p 39 [480]
- LAW OF FREE FALL, GALILEO S DISCOVERY OF THE, by Stillman Drake, 1973 May p 84
- LAWS THE OLDEST, by Samuel Noah Kramer, 1953 Jan p 26
- LAYER THE BOUNDARY, by Joseph J Cornish III, 1954 Aug p 72
- LEAD POISONING, by J Julian Chisolm, Jr, 1971 Feb p 15 [1211]
- LEAF SHAPE, by Eric Ashby, 1949 Oct p 22 LEAKAGE PROBLEM IN FUSION REACTORS THE, by Francis F Chen, 1967 July p 76
- LEAP OF THE GRASSHOPPER THE, by Graham Hoyle, 1958 Jan p 30
- LEARNING IN NEWBORN KITTENS, by Jay S Rosenblatt, 1972 Dec p 18 [552]
- LEARNING IN THE AUTONOMIC NERVOUS SYSTEM, by Leo V DiCara, 1970 Jan p 30 [525]
- LEARNING IN THE CANARY, by Nicholas Pastore, 1955 June p 72
- LEARNING IN THE OCTOPUS, by Brian B Boycott,
- 1965 Mar p 42 [1006] LEARNING PLACE, by Henry Gleitman, 1963 Oct
- p 116 [479] LEARNING REPETITION AND, by Irvin Rock, 1958
- Aug p 68 [422] LEARNING TO THINK, by Harry F and Margaret
- Kuenne Harlow, 1949 Aug p 36 [415] LEARNS A MACHINE THAT, by W Grey Walter, 1951 Aug p 60
- LEAVES FALL? WHAT MAKES, by William P Jacobs, 1955 Nov p 82 [116]
- LECTINS, by Nathan Sharon, 1977 June p 108 [1360]
- LEE WAVES IN THE ATMOSPHERE, by R S Scorer, 1961 Mar p 124

- LEECH THE NERVOUS SYSTEM OF THE, by John G Nicholls and David Van Essen, 1974 Jan p 38 112871
- LEFT FROM RIGHT ON TELLING, by Michael C Corballis and Ivan L Beale, 1971 Mar p 96 [535]
- LEFT HAND RIGHT HAND, by Lorus J and Margery J Milne, 1948 Oct p 46

p 94

- LEGAL ABORTION, by Christopher Tietze and Sarah Lewit, 1977 Jan p 21 [1345] LEIBNIZ, by Frederick C Kreiling, 1968 May
- LEK MATING SYSTEM OF THE SAGE GROUSE, THE, by R Haven Wiley, Jr., 1978 May p 114 [1390] LENGTH OF THE DAY INSECTS AND THE, by Stanley
- D Beck, 1960 Feb p 108

 LENS IN CATARACT WHAT HAPPENS TO THE HUMAN, by Ruth van Heyningen, 1975 Dec p 70

 LENS THE PHOTOGRAPHIC, by William H Price,
- 1976 Aug p 72 LEONARDO ON BEARINGS AND GEARS, by Ladislao Reti, 1971 Feb p 100
- LEPTONS HEAVY, by Martin L Perl and William T Kirk, 1978 Mar p 50 [398]
- LESSON OF RETROLENTAL FIBROPLASIA THE, by William A Silverman, 1977 June p 100
- LESSON OF THE PYGMIES THE, by Colin M Turnbull, 1963 Jan p 28 [615]
- LETHAL EFFECTS OF RADIATION THE, by Edward Spoerl, 1951 Dec p 22
- LETHAL HEREDITY, by Willard F Hollander, 1952 July p 58
- LEUKEMIA, by Emil Frei III and Emil J Freireich, 1964 May p 88
- LEUNEMIA L ASPARAGINE AND, by Lloyd J Old, Edward A Boyse and H A Campbell, 1968 Aug p 34
- LICHENS, by I Mackenzie Lamb, 1959 Oct p 144 [111]
- LICHENS THE FUNGIOF, by Vernon Ahmadjian, 1963 Feb p 122
- LIFE AN IMITATION OF, by W Grey Walter, 1950
 May p 42
- LIFE AND DEATH AND MEDICINE, 1973 Sept issue
- White, 1973 Sept p 22
- LIFE AND LIGHT, by George Wald, 1959 Oct p 92
- LIFE AT HIGH ALTITUDES, by George W Gray, 1955 Dec p 58
- LIFE CALCIUM AND, by L V Heilbrunn, 1951
 June p 60
- LIFE, CRISES IN THE HISTORY OF, by Norman D Newell, 1963 Feb p 76 [867] LIFE CYCLE OF A VIRUS THE, by Andre Lwoff,
- 1954 Mar p 34 LIFE HEAT AND, by Frank H Johnson, 1954
- Sept p 64
 LIFE IN CAVES, by Brother G Nicholas, FSC
- 1955 May p 98 LIFE IN MYCENAEAN GREECE, by John Chadwick
- 1972 Oct p 36 [681] LIFE IN TALL TREES, by William C Denison 1973 June p 74 [1274]
- LIFE IN THE DEEP SEA MICROBIAL, by Holger W Jannasch and Carl O Wirsen, 1977 June p 42 [926]
- LIFE IN THE DEPTHS OF A POND, by Edward S Deevey, Jr., 1951 Oct p 68
- LIFE IN THE OCEANS PLATE TECTONICS AND THE HISTORY OF, by James W Valentine and Eldridge M Moores, 1974 Apr p 80 [912] LIFE OF A SAND DUNE, THE, by William H. Amos, 1959 July p 91

- LIFE OF A THUNDERSTORM, by Roscoe R. Braham, Jr, 1950 June p 48
- LIFE OF AN ESTUARY THE, BY ROBERT M Ingle, 1954 May p 64
- LIFE OF THE ANTARCTIC THE ANCIENT, by George A Doumani and William E Long, 1962 Sept p 168 [863]
- LIFE OF THE ANTARCTIC THE OCEANIC, by Robert Cushman Murphy, 1962 Sept p 186 [864] LIFE OF THE ANTARCTIC THE TERRESTRIAL, by
- George A Llano, 1962 Sept p 212 [865] LIFE ON MARS, THE SEARCH FOR, by Norman H Horowitz, 1977 Nov p 52 [389]
- LIFE ON THE HUMAN SKIN, by Mary J Marples, 1969 Jan p 108 [1132]
- LIFE OUTSIDE THE SOLAR SYSTEM, by Su Shu Huang, 1960 Apr p 55
- LIFESPAN OF ANIMALS THE, by Alex Comfort, 1961 Aug. p 108
- LIFE TEMPERATURE AND, by Lorus J and Margery J Milne, 1949 Feb p 46 LIFE THE CHEMICAL ELEMENTS OF, by Earl
- Frieden, 1972 July p 52 LIFE THE DEEP SEA LAYER OF, by Lionel A
- Walford, 1951 Aug p 24 LIFE THE MASTER SWITCH OF, by P F
- Scholander, 1963 Dec p 92 LIFE THE ORIGIN OF, by George Wald, 1954 Aug p 44 [47]
- ціснт, 1968 Sept issue
- LIGHT, by Gerald Feinberg, 1968 Sept 50 LIGHT AND ANIMAL NAVIGATION POLARIZED, by Talbot H Waterman, 1955 July p 88
- LIGHT AND COLOR, SEEING, by Ralph M Evans, 1949 Aug p 52
- LIGHT AND PLANT DEVELOPMENT, by W L Butler and Robert J Downs, 1960 Dec p 56 [107] LIGHT APPLICATIONS OF LASER, by Donald R
- Hernott, 1968 Sept p 140 LIGHT EMITTING SEMICONDUCTORS, by F F
- Morehead, Jr., 1967 May p 108 LIGHT HOLOGRAMS WHITE, by Emmett N Leith, 1976 Oct p 80
- LIGHT IN PHOTOSYNTHESIS THE ABSORPTION OF, by Govindjee and Rajni Govindjee, 1974 Dec
- p 68 [1310] LIGHT IN PHOTOSYNTHESIS THE ROLE OF, by Daniel I Arnon, 1960 Nov p 104
- light interacts with living matter, how, by Sterling B Hendricks, 1968 Sept p 174
- LIGHT INTERACTS WITH MATTER, HOW, by Victor F Weisskopf, 1968 Sept p 60
- LIGHT IS ANALYZED HOW, by Pierre Connes, 1968 Sept p 72
- LIGHT LASER, by Arthur L Schawlow, 1968 Sept p 120
- LIGHT LIFEAND, by George Wald, 1959 Oct p 92
- LIGHT MONOMOLECULAR LAYERS AND, by Karl H Drexhage, 1970 Mar p 108
- LIGHT NAVIGATION BY INSECTS, POLARIZED-, by Rudiger Wehner, 1976 July p 106 [1342]
- LIGHT NUCLEI EXOTIC, by Joseph Cerny and Arthur M Poskanzer, 1978 June p 60 [3010] LIGHT ON THE HUMAN BODY THE EFFECTS OF, by
- Richard J Wurtman, 1975 July p 68 [1325] LIGHT PARTICLES THAT GO FASTER THAN, by Gerald Feinberg, 1970 Feb p 68
- LIGHT RECEPTION NONVISUAL, by Michael Menaker, 1972 Mar p 22 [1243] LIGHT REVIVAL BY, by Albert Kelner, 1951 May
- p 22 LIGHT SCATTERED BY PARTICLES by Victor K La
- Mer and Milton Kerker, 1953 Feb p 69 LIGHT THE CHEMICAL EFFECTS OF, by Gerald Oster, 1968 Sept p 158

- LIGHT THE INTERACTION OF LIGHT WITH, by J A Giordmaine, 1964 Apr p 38
- LIGHT THE INVENTION OF THE ELECTRIC, by Matthew Josephson, 1959 Nov p 98
- LIGHT THE MODULATION OF LASER, by Donald F Nelson, 1968 June p 17
- LIGHT THE PRESSURE OF LASER, by Arthur Ashkin, 1972 Feb p 62
- LIGHT THE SPEED OF, by J H Rush, 1955 Aug
- LIGHT THE ZODIACAL, by D E Blackwell, 1960 July p 54
- LIGHT THINGS THAT GO FASTER THAN, by Milton A Rothman, 1960 July p 142
- LIGHT TRAPPED, 1949 June p 48
- LIGHT WAVE COMMUNICATIONS, by W S Boyle, 1977 Aug p 40 [373]
- LIGHTNING BALL, by Harold W Lewis, 1963 Mar p 106
- LIGHTNING THE MECHANISM OF, by Leonard B Loeb, 1949 Feb p 22
- LIGNIN, by F F Nord and Walter J Schubert, 1958 Oct p 104
- LILY THE VOODOO, by Bastiaan J D Meeuse, 1966 July p 80
- LIMITATION OF OFFENSIVE WEAPONS THE, by Herbert Scoville, Jr, 1971 Jan p 15
- limitation of strategic arms the, by G W Rathjens and G B Kistiakowsky, 1970 Jan p 19 [654]
- LIMITED NUCLEAR WAR, by Sidney D Drell and Frank von Hippel, 1976 Nov p 27
- LIMITS OF MEASUREMENT THE, by R Furth, 1950 July p 48 [255]
- LINE, THE STRAIGHT, by Morris Kline, 1956 Mar p 104
- LINEAR ACCELERATOR, THE, by Wolfgang Panofsky, 1954 Oct p 40 [234]
- LINEAR PROGRAMMING, by William W Cooper and Abraham Charnes, 1954 Aug p 21
- LINES HOW WE SEE STRAIGHT, by John R. Platt, 1960 June p 121
- LIONS THE SOCIAL SYSTEM OF, by Brian C R. Bertram, 1975 May p 54
- LIQUID AN ELECTRON HOLE, by Gordon A Thomas, 1976 June p 28
- LIQUID-CRYSTAL DISPLAY DEVICES, by G H Heilmeier, 1970 Apr p 100
- LIQUID CRYSTALS, by James L Fergason, 1964 Aug p 76
- LIQUID LASERS, by Alexander Lempicki and Harold Samelson, 1967 June p 80
- LIQUID METALS, by N W Ashcroft, 1969 July p 72
- LIQUID NATURAL GAS, by Noel de Nevers, 1967 Oct p 30
- LIQUIDS AND SOLIDS ULTRAFAST PHENOMENA IN, by R. R. Alfano and S L Shapiro, 1973 June p 42
- LIQUIDS THE BOILING OF, by J W Westwater, 1954 June p 64
- LIQUIDS THE STRUCTURE OF, by J D Bernal, 1960 Aug p 124
- LIQUIDS THE TENSILE STRENGTH OF, by Robert E Apfel, 1972 Dec p 58
- LIQUIDS THE UNDERCOOLING OF, by David Turnbull 1965 Jan p 38
- LITHIUM, by Henry Gilman and John J Eisch. 1963 Jan p 88
- LITHOSPHERE, THE ORIGIN OF METAL DEPOSITS IN THE OCEANIC, by Enrico Bonatti, 1978 Feb p 54 [929]
- LITHOSPHERE, THE SUBDUCTION OF THE, by M Nafi Toksoz, 1975 Nov p 88 [919] LIVER METABOLIZES FOREIGN SUBSTANCES HOW тне, by Attallah Kappas and Alvito Р

Alvares 1975 June p 22 [1322]

- LIVING CELL, PUMPS IN THE, by Arthur K Solomon, 1962 Aug p 100
- LIVING CELL, THE, 1961 Sept issue LIVING CELL THE, by Jean Brachet, 1961 Sept p 50 [90]
- LIVING CELLS CHANGE SHAPE, HOW, by Norman K Wessells, 1971 Oct p 76 [1233]
- LIVING CELLS. JUNCTIONS BETWEEN, by L Andrew Staehelin and Barbara E Hull, 1978 May p 140 [1388]
- LIVING CELLS THE FREEZING OF, by A S Parkes, 1956 June p 105
- LIVING CELLS THE SMALLEST, by Harold J Morowitz and Mark E Tourtellotte, 1962 Mar p 117 [1005]
- LIVING INSECTICIDES, by Edward A Steinhaus, 1956 Aug p 96
- LIVING MATTER, A UNIVERSAL MOLECULE OF, by Martin Kamen, 1958 Aug p 77
- LIVING MATTER, HOW LIGHT INTERACTS WITH, by Sterling B. Hendricks, 1968 Sept. p. 174
- LIVING PREHISTORY IN INDIA, by D D Kosambi, 1967 Feb p 104
- LIVING RECORDS OF THE ICE AGE, by Edward S Deevey, Jr, 1949 May p 48 [834]
- LIVING UNDER THE SEA, by Joseph B MacInnis, 1966 Mar p 24
- LOBOTOMY PREFRONTAL ANALYSIS AND WARNING, by Kurt Goldstein, 1950 Feb p 44
- LOCALIZATION AUDITORY, by Mark R. Rosenzweig, 1961 Oct p 132 [501]
- LOCATING RADIO SOURCES WITH THE MOON, by R W Clarke, 1966 June p 30
- LOCATION BY FISHES ELECTRIC, by H W Lissmann, 1963 Mar p 50 [152]
- LOCUST THE FLIGHT CONTROL SYSTEM OF THE, by Donald M Wilson, 1968 May p 83
- LOCUSTS FLIGHT ORIENTATION IN, by Jeffrey M Camhi, 1971 Aug p 74 [1231] LOCUSTS. THE FLIGHT OF, by Torkel Weis Fogh,
- 1956 Mar p 116 LOGIC AND COMPUTERS GAMES, by Hao Wang,
- 1965 Nov p 98 LOGIC AND MEMORY COMPUTER, by David C
- Evans, 1966 Sept p 74 LOGIC LEWIS CARROLL'S LOST BOOK ON, by W W
- Bartley III, 1972 July p 38 LOGIC MACHINES, by Martin Gardner, 1952 Mar
- p 68
- LOGIC SYMBOLIC, by John E Pfeiffer, 1950 Dec p 22
- LOGLAN, by James Cooke Brown, 1960 June p 53
- LONG EARTHQUAKE WAVES, by Jack Oliver, 1959 Mar p 131
- LONG RANGE FORCES, by Thaddeus Stern, 1948 Oct p 14
- LONG RANGE WEATHER FORECASTING, by Jesome Namias, 1955 Aug p 40
- LONGEST ELECTROMAGNETIC WAVES THE, by James R. Heirtzler, 1962 Mar p 128
- LOST CITIES OF PERU THE, by Richard P Schaedel, 1951 Aug p 18
- LOVE IN INFANT MONKEYS, by Harry F Harlow, 1959 June p 68 [429]
- LOVE SONG OF THE FRUIT FLY THE, by H C Bennet Clark and A W Ewing, 1970 July p 84 [1183]
- LOVEBIRDS, THE BEHAVIOR OF, by William C Dilger, 1962 Jan p 88
- LOW ALTITUDE JET STREAMS, by Morton L Barad, 1961 Aug p 120
- LOW PRESSURE. THE SYNTHESIS OF DIAMOND AT, by B V Derjaguin and D B Fedoseev, 1975 Nov p 102

LOW SPEED PLIGHT, by David C Hazen and Rudolf F Lehnert, 1956 Apr p 46

LOW TEMPERATURE PHYSICS, by Harry M Davis, 1949 June p 30 [206]

LUMINESCENCE OF LIVING THINGS THE, by E Newton Harvey, 1948 May p 46

LUMINESCENCE OF THE MOON THE, by Zdeněk Kopal, 1965 May p 28

LUMINOUS ENVIRONMENT THE CONTROL OF THE, by James Marston Fitch, 1968 Sept p 190

LUNAR LASER REFLECTOR THE, by James E Faller and E Joseph Wampier, 1970 Mar p 38

LUNAR ORBITER MISSIONS TO THE MOON THE, by Ellis Levin, Donald D Viele and Lowell B Eldrenkamp, 1968 May p 58

LUNAR ROCKS THE, by Brian Mason, 1971 Oct p 48

LUNAR SOIL, THE, by John A Wood, 1970 Aug p 14

LUNG OF THE NEWBORN INFANT THE, by Mary Ellen Avery, Nai-San Wang and H William Taeusch, Jr, 1973 Apr p 74

LUNG THE, by Julius H Comroe, Jr, 1966 Feb p 56 [1034]

LUNGS SURFACE TENSION IN THE, by John A Clements, 1962 Dec p 120

LYELL CHARLES, by Loren C Eiseley, 1959 Aug p 98 [846]

LYMPHATIC SYSTEM THE, by H S Mayerson, 1963 June p 80 [158]

LYMPHOCYTE AS AN EXPERIMENTAL ANIMAL, THE HUMAN, by Richard A Lerner and Frank J Dixon, 1973 June p 82 [1275]

LYSENKO AFFAIR THE, by David Joravsky, 1962 Nov p 41

LYSINE CORN HIGH, by Dale D Harpstead, 1971 Aug p 34 [1229]

LYSOSOME THE, by Christian de Duve, 1963 May

LYSOSOMES AND DISEASE, by Anthony Allison, 1967 Nov p 62 [1085]

LYSOZYME, FLEMING S, by Robert F Acker and S E Hartsell, 1960 June p 132

MACAQUES THE SOCIAL ORDER OF JAPANESE, by G Gray Eaton, 1976 Oct p 96 [1345] MACEDONIA PELLA CAPITAL OF ANCIENT, by Ch

J Makaronas, 1966 Dec p 98 MACHINE A CHESS PLAYING, by Claude E

Shannon, 1950 Feb p 48 MACHINE, MAN VIEWED AS A, by John G Kemeny,

1955 Apr p 58 MACHINE, PATTERN RECOGNITION BY, by Oliver

G Selfridge and Ulric Neisser, 1960 Aug

MACHINE THAT LEARNS A, by W Grey Walter, 1951 Aug p 60

MACHINE TOOL AN AUTOMATIC, by William Pease, 1952 Sept p 101

MACHINE, TRANSLATION BY, by William N Locke, 1956 Jan p 29

MACHINE TRANSLATION OF CHINESE, by Gilbert W King and Hsien-Wu Chang, 1963 June

MACHINES AND MAN, by Wassily W Leontief, 1952 Sept p 150

MACHINES LOGIC, by Martin Gardner, 1952 Mar p 68

MACHINES MATHEMATICAL, by Harry M Davis, 1949 Apr p 28

MACHINES, PERPETUAL MOTION, by Stanley W Angrist, 1968 Jan p 114

MACHINES SELI REPRODUCING, by L S Penrose, 1959 June p 105 [74]

MACHINES TEACHING, by B F Skinner, 1961 Nov p 90 [461]

MAGELLAN THE CLOUDS OF, by Gerard de Vaucouleurs, 1956 Apr p 52

MAGLLLAN THE LARGE CLOUD OF, by Bart J Bok, 1964 Jan p 32

MAGNETIC BUBBLES, by Andrew H Bobeck and H E D Scovil, 1971 June p 78

MAGNETIC FIELD OF THE GALAXY THE, by Glenn L Berge and George A Seielstad, 1965 June p 46

MAGNETIC FIELD REVERSALS OF THE EARTH S, by Allan Cox, G Brent Dalrymple and Richard R Doell, 1967 Feb p 44

MAGNETIC FIELDS INTENSE, by Henry H Kolm and Arthur J Freeman, 1965 Apr p 66 MAGNETIC FIELDS ON THE QUIET SUN, by William

C Livingston, 1966 Nov p 54

MAGNETIC FIELDS STRONG, by Harold P Furth. Morton A Levine and Ralph W Waniek, 1958 Feb p 28

MAGNETIC FIELDS ULTRASTRONG, by Francis Bitter, 1965 July p 64

MAGNETIC MATERIALS, by Richard M Bozorth, 1955 Jan p 68

MAGNETIC MONOPOLES, by Kenneth W Ford, 1963 Dec p 122

MAGNETIC PROPERTIES OF MATERIALS THE, by Frederic Keffer, 1967 Sept p 222

MAGNETIC RECORDING, by Victor E Ragosine, 1969 Nov p 70

MAGNETIC RESONANCE, by George E Pake, 1958 Aug p 58 [233]

MAGNETIC RESONANCE AT HIGH PRESSURE, by George B Benedek, 1965 Jan p 102

MAGNETIC SEPARATION HIGH GRADIENT, by Henry Kolm, John Oberteuffer and David Kelland, 1975 Nov p 46

MAGNETIC STRUCTURE OF SUPERCONDUCTORS THE, by Uwe Essmann and Hermann Trauble, 1971 Mar p 74

MAGNETISM OF THE MOON THE, by Palmer Dyal and Curtis W Parkin, 1971 Aug p 62

MAGNETISM OF THE OCEAN FLOOR THE, by Arthur D Raff, 1961 Oct p 146

MAGNETISM OF THE SUN THE, by Horace W Babcock, 1960 Feb p 52

MAGNETISM THE EARTH'S, by A E Benfield, 1950 June p 20

MAGNETISM THE EARTH S, by S K Runcorn, 1955 Sept p 152

MAGNETOMETER, THE AIRBORNE, by Homer Jensen, 1961 June p 151

MAGNETOSPHERE, THE, by Laurence J Cahill, Jr, 1965 Mar p 58

MAGNETOTHERMOELECTRICITY, by Raymond Wolfe, 1964 June p 70

MAGNETS ADVANCES IN SUPERCONDUCTING, by William B Sampson, Paul P Craig and Myron Strongin, 1967 Mar p 114

MAGNETS PERMANENT, by Joseph J Becker, 1970 Dec p 92

MAGNETS SUPERCONDUCTING, by J E Kunzler and Morris Tanenbaum, 1962 June p 60 [279]

MALARIA, by Carlos A Alvarado and L J Burce-Chwatt, 1962 May p 86

MALARIA PARASITE, THE CLOCK OF THE, by Frank Hawking, 1970 June p 123

MALARIA, THE ERADICATION OF, by Paul F Russell 1952 June p 22 MALE FERTILITY, by Edmond J Farns, 1950 May

p 16

MALPRACTICE MEDICAL, by David S Rubsamen, 1976 Aug p 18

MAMMALIAN EGGS IN THE LABORATORY, by R. G Edwards, 1966 Aug p 72 [1047]

MAMMALS FERTILIZATION IN, by Gregory Pincus, 1951 Mar p 44

MAMMALS HORMONES IN SOCIAL AMOEBAE AND, by John Tyler Bonner, 1969 June p 78 MAMMALS THE ANCESTORS OF, by Edwin H

MAMMOTH CAVE, PFRHISTORIC MAN IN, by Douglas W Schwartz, 1960 July p 130 MAN ALONE IN SPACE? IS, by Loren C Eiseley. 1953 July p 80

Colbert, 1949 Mar p 40

MAN ANTIQUITY OF MODERN, by Loren C Eiseley, 1948 July p 16

MAN APES OF SOUTH AFRICA THE, by Wilton M Krogman, 1948 May p 16

MAN CAME TO NORTH AMERICA HOW, by Ralph Solecki, 1951 Jan p 11

MAN EARLIER MATURATION IN, by J M Tanner, 1968 Jan p 21

MAN DAY THE MEASUREMENT OF THE by Eugene S Ferguson, 1971 Oct p 96 MAN FOSSIL, by Loren C Eiseley, 1953 Dec

p 65 MAN HERE TO STAY? IS, by Loren C Eiseley, 1950 Nov p 52

MAN IN AFRICA, EARLY, by J Desmond Clark, 1958 July p 76

MAN IN MAMMOTH CAVE, PREHISTORIC, by Douglas W Schwarz, 1960 July p 130

MAN IN PERU EARLY, by Edward P Lanning, 1965 Oct p 68

MAN IN SOUTH AMERICA, EARLY, by Edward P Lanning and Thomas C Patterson, 1967 Nov

MAN IN THE ANDES EARLY, by Richard S MacNeish, 1971 Apr p 36

MAN IN THE ANDES EARLY, by William J Mayer-Oakes, 1963 May p 116

MAN IN THE ARCTIC, EARLY, by J L Giddings, Jr, 1954 June p 82

MAN IN THE GRAND CANYON PREHISTORIC, by Douglas W Schwarz, 1958 Feb p 97 MAN IN THE WEST INDIES EARLY, by Jose M Cruxent and Irving Rouse, 1969 Nov p 42

MAN MACHINES AND, by Wassily W Leontief,

1952 Sept p 150 MAN NEANDERTHAL, by J E Weckler, 1957 Dec p 89 [844]

MANNERS THE ANTHROPOLOGY OF, by Edward T Hall, Jr, 1955 Apr p 84

MAN ON THE NILE, STONE AGE, by Philip E L Smith, 1976 Aug p 30

MAN RH AND THE RACES OF, by William C Boyd 1951 Nov p 22

MAN THE COPROLITES OF, by Vaughn M Bryant, Jr, and Glenna Williams Dean 1975 Jan p 100 [687]

MAN THE DISTRIBUTION OF, by William W Howells, 1960 Sept p 112 [604]

MAN THE EARLY RELATIVES OF by Elwyn L Simons, 1964 July p 50 [622]

MAN THE FIRE MAKER, by Loren C Eiseley, 1954 Sept p 52

MAN THEILLS OF, by John H Dingle 1973 Sept

p 76 MAN THE OCEAN AND, by Warren S Wooster 1969 Sept p 218 [888]

MAN THE PLANTS AND ANIMALS THAT NOURISH, by Jack R Harlan, 1976 Sept p 88

MAN THE PRESENT EVOLUTION OF, by Theodosius Dobzhansky, 1960 Sept p 206 [609] MAN VIEWED AS A MACHINE, by John G Kemeny, 1955 Apr p 58

MAN WHALES, PLANKTON AND, by Willis E Pequegnat, 1958 Jan p 84 [853]

- MANIPULATION OF GENES THE, by Stanley N Cohen, 1975 July p 24 [1324]
- Manipulators industrial, by Ralph S Mosher, 1964 Oct. p 88
- MAN-OF WAR, THE PORTUGUESE, by Charles E Lane, 1960 Mar p 158
- MAN SANTIQUITY THE IDEA OF, by Glyn E. Daniel, 1959 Nov p 167
- MAN'S GENETIC FUTURE, by Curt Stern, 1952 Feb p 68
- Mantle, convection currents in the Earth S, by D P McKenzie and Frank Richter, 1976 Nov p 72 [921]
- MANTLE, THE EARTH'S, by Peter J Wyllie, 1975 Mar p 50 [915]
- MANTLE, THE PLASTIC LAYER OF THE EARTH S, by Don L Anderson, 1962 July p 52
- MANUFACTURE COMPUTER MANAGED PARTS, by Nathan H Cook, 1975 Feb p 22
- MANUFACURE OF ELECTRONIC EQUIPMENT AUTOMATIC, by Lawrence P Lessing, 1955 Aug p 29
- MAP PROBLEM, THE SOLUTION OF THE FOUR COLOR by Kenneth Appel and Wolfgang Haken, 1977 Oct p 108 [387]
- WAPPING MOUNT MCKINLEY, by Bradford Washburn, 1949 Jan p 46
- MAPPING OF HUMAN CHROMOSOMES THE, by Victor A. McKusick, 1971 Apr. p. 104 [1220] MARIHUANA, by Lester Grinspoon, 1969 Dec. p. 17 [524]
- MARINE ANIMALS THE BUOYANCY OF, by Eric Denton, 1960 July p 118
- MARINE FARMING, by Gifford B Pinchot, 1970 Dec p 14 [1205]
- MARINE INVERTEBRATES ESCAPE RESPONSES IN, by Howard M Feder, 1972 July p 92 [1254] MARINER 9 MARS FROM, by Bruce C Murray,
- 1973 Jan p 48
 MARINER IV THE PHOTOGRAPHS FROM, by Robert
- B Leighton, 1966 Apr p \$4 MARINER IV THE SCIENTIFIC EXPERIMENTS OF, by Richard K Sloan, 1966 May p 62
- MARINER IV THE VOYAGE OF, by J N James, 1966 Mar p 42
- MARINER II THE VOYAGE OF, by J N James, 1963 July p 70
- MARKERS OF BIOLOGICAL INDIVIDUALITY, by Ralph A Reisfeld and Barry D Kahan, 1972 June p 28 [1251]
- MARKET NETWORKS RURAL, by Stuart Plattner, 1975 May p 66
- WARKETS, PEASANT, by Sidney W Mintz, 1960 Aug p 112 [647]
- MARRIAGE, SISTER EXCHANGE, by Wendy James, 1975 Dec p 84
- MARS, by Gerard de Vaucouleurs, 1953 May p 65
- MARS, by James B Pollack, 1975 Sept p 106 MARS AND VENUS. THE ATMOSPHERES OF, by Von R. Eshleman, 1969 Mar p 78
- MARS FROM MARINER 9, by Bruce C Murray, 1973 Jan p 48
- MARS, THE ATMOSPHERE OF, by Conway B Leovy, 1977 July p 34 [369]
- MARS THE SEARCH FOR LIFE ON, by Norman H Horowitz, 1977 Nov p 52 [389]
- MARS, THE SURFACE OF, by Raymond E Arvidson, Alan B Binder and Kenneth L Jones, 1978 Mar p 76 [399]
- MARS, THE SURFACE OF, by Robert B Leighton, 1970 May 26
- MARS, THE VOLCANOES OF, by Michael H. Carr, 1976 Jun. p. 32.
- MASER, THE, by James P. Gordon, 1958 Dec. p. 42 [215]

- MASERS ADVANCES IN OPTICAL, by Arthur L Schawlow, 1963 July p 34 [294] MASERS COSMIC, by Dale F Dickinson, 1978
- June p 90 [301]

 MASERS OPTICAL, by Arthur L Schawlow, 1961
- June p 52 [274]
 MASS DESTRUCTION UNV, by Trygve Lie, 1950
- Jan p 11
 MASS OF THE PHOTON THE, by Alfred Scharff
 Goldhaber and Michael Martin Nieto, 1976
- MASS SPECTROMETER, THE, by Alfred O C Nier, 1953 Mar p 68 [256]
- MASSIVE STARS THE BIRTH OF, by Michael Zeilik, 1978 Apr p 110 [3005]
- MASTER SWITCH OF LIFE, THE, by P F Scholander, 1963 Dec p 92
- MATERIAL, THE COMPETITION OF, by W O Alexander, 1967 Sept. p 254
- MATERIALS, 1967 Sept issue
- MATERIALS, by Cyril Stanley Smith, 1967 Sept p 68
- MATERIALS ADVANCED COMPOSITE, by Henry R. Clauser, 1973 July p 36
- MATERIALS BY X RAY ABSORPTION THE ANALYSIS
 OF, by Edward A Stern, 1976 Apr p 96
- MATERIALS HIGH TEMPERATURES by Pol Duwez, 1954 Sept p 98
- MATERIALS MAGNETIC, by Richard M Bozorth, 1955 Jan p 68
- MATERIALS PRODUCTION AS A PROCESS IN THE BIOSPHERE, HUMAN, by Harrison Brown, 1970 Sept p 194 [1198]
- MATERIALS SUPERHARD, by Francis P Bundy, 1974 Aug p 62
- MATERIALS THE CHEMICAL PROPERTIES OF, by Howard Reiss, 1967 Sept p 210
- MATERIALS THE ELECTRICAL PROPERTIES OF, by Henry Ehrenreich, 1967 Sept p 194
- MATERIALS THE MAGNETIC PROPERTIES OF, by Frederic Keffer, 1967 Sept p 222
- MATERIALS THE MICROSTRUCTURE OF POLYMERIC, by D R. Uhlmann and A. G Kolbeck, 1975 Dec p 96
- MATERIALS THE NATURE OF COMPOSITE, by Anthony Kelly, 1967 Sept p 160
- MATERIALS THE NATURE OF POLYMERIC, by Herman F Mark, 1967 Sept p 148
- MATERIALS THE OPTICAL PROPERTIES OF, by Ali Javan, 1967 Sept p 238
- MATERIALS THE THERMAL PROPERTIES OF, by John Ziman, 1967 Sept. p 180
- MATERIALS TWO PHASE, by Games Slayter, 1962 Jan p 124
- MATHEMATICAL CONCEPTS HOW CHILDREN FORM, by Jean Piaget, 1953 Nov p 74 [420]
- MATHEMATICAL CREATION, by Henri Poincare, edited by James R. Newman, 1948 Aug p 54
- MATHEMATICAL MACHINES, by Harris M Davis, 1949 Apr p 28
- MATHEMATICAL PROOF RANDOMNESS AND, by Gregory J Chailin, 1975 May p 47 MATHEMATICAL SIEVES, by David Hawkins, 1958
- Dec p 105
 MATHEMATICIAN AS AN EXPLORER, THE, by
- Sherman K. Stein, 1961 May p 148
 MATHEMATICIAN LEWIS CARROLL by Warren
 Weaver, 1956 Apr p 116
- MATHEMATICS, by Sir Edmund Whittaker, 1950 Sept p 40
- MATHEMATICS IN THE BIOLOGICAL SCIENCES, by Edward F Moore, 1964 Sept p 148
- MATHEMATICS IN THE MODERN WORLD, 1964 Sept
- MATHEMATICS IN THE MODERN WORLD, by Richard Courant, 1964 Sept. p. 40

- MATHEMATICS IN THE PHYSICAL SCIENCES, by Freeman J Dyson, 1964 Sept p 128
- MATHEMATICS IN THE SOCIAL SCIENCES, Richard Stone, 1964 Sept p 168
 MATHEMATICS INNOVATION IN, by Paul R.
- Halmos, 1958 Sept p 66
 MATHEMATICS OF COMMUNICATION THE, by
- Warren Weaver, 1949 July p 11 MATHEMATICS OF SCHEDULING THE
- COMBINATORIAL, by Ronald L Graham, 1978 Mar p 124 [3001] MATHEMATICS STONE AGE, by Dirk J Struik,
- 1948 Dec p 44
 MATHEMATICS, THE FOUNDATIONS OF, by W V
 Owne 1964 Sept p 112
- Quine, 1964 Sept p 112 MATHEMATICS THE TEACHING OF ELEMENTARY, by
- E P Rosenbaum, 1958 May p 64 [238] MATING SYSTEM OF THE SAGE GROUSE, THE LEK, by
- R. Haven Wiley, Jr., 1978 May p. 114 [1390]
 MATRIXES ENZYMES BOUND TO ARTIFICIAL, by
 Klaus Mosbach, 1971 Mar. p. 26 [1216]
- Klaus Mosbach, 1971 Mar p 26 [1216] MATTER FRON SPACE, ORGANIC, by Brian Mason, 1963 Mar p 43
- MATTER HOW LIGHT INTERACTS WITH, by Victor F Weisskopf, 1968 Sept p 60
- MATTER IN METEORITES ORGANIC, by James G Lawless, Clair E Folsome and Keith A Kvenvolden, 1972 June p 38 [902]
- MATTER, ORDINARY, by Gerald Feinberg, 1967 May p 126
- MATTER, RADIO WAVES AND, by Harry M Davis, 1948 Sept p 16
- MATTER, THE FLOW OF, by Marcus Remer, 1959 Dec p 122 [268]
- MATTER, TWO-DIMENSIONAL, by J G Dash, 1973
- May p 30
 MATTER? WHAT IS, by Erwin Schrodinger, 1953
- Sept p 52 [241]
 MATURATION IN MAN EARLIER, by J M Tanner,
- 1968 Jan p 21 MAUPERTUIS A FORGOTTEN GENIUS, by H
- Bentley Glass, 1955 Oct. p 100

 MAXWELL, JAMES CLERK, by James R. Newman, 1955 June p 58
- 1955 June p 58
 MAXWELL'S COLOR PHOTOGRAPH, by Ralph M
- Evans, 1961 Nov p 118
 MAXWELL'S DEMON, by W Ehrenberg, 1967 Nov
- p 103 [317]
 MAXWELLS POETRY, by I Bernard Cohen, 1952
- Mar p 62 Maya Ceremonial center, the planning of a,
- by Norman Hammond, 1972 May p 82
 MAYA HIGHLANDS UNDERWATER ARCHAEOLOGY
 IN THE, by Stephan F Borhegyl, 1959 Mar
 p 100
- MAYA MERCHANT CLASS THE RISE OF A, by Jeremy A Sabloff and William L Rathje, 1975 Oct p 72
- MAYA, THE EARLIEST, by Norman Hammond, 1977 Mar p 116 [1355]
- MCKINLEY THE OPERATION ON PRESIDENT, by Selig Adler, 1963 Mar p 118
- MEANDERS RIVER, by Luna B Leopold and W B Langbein, 1966 June p 60 [869]
- MEASLES GERMAN, by Louis Z Cooper, 1966
 July p 30
- MEASUREMENT BY MERCURY, by William F Meggers, 1948 Aug. p. 48
- MEASUREMENT OF ANXIETY THE NATURE AND, by Raymond B Cattell, 1963 Mar p 96 [475] MEASUREMENT OF MOTIVATION THE, by H J
- Eysenck, 1963 May p 130 [477]

 MEASUREMENT OF THE "MAN DAY" THE, by
 Eugene S Ferguson, 1971 Oct p 96

- MEASUREMENT, STANDARDS OF, by Allen V. Astin, 1968 June p. 50.
- MEASUREMENT, THE LIMITS OF, by R. Furth, 1950 July p. 48. [255]
- MEASURING EARTH STRAINS BY LASER, by Victor Vali, 1969 Dec. p. 88.
- MEASURING STARLIGHT BY PHOTOCELL, by Joel Stebbins, 1952 Mar. p. 56.
- MECHANICAL ALLOYING, by J. S. Benjamin, 1976
- "MECHANICAL BOY", JOEY: A, by Bruno Bettelheim, 1959 Mar. p. 116. [439]
- MECHANICAL COMPUTING DEVICE, GALILEO AND THE FIRST, by Stillman Drake, 1976 Apr. p. 104.
- MECHANICAL DESIGN OF TREES, THE, by Thomas A. McMahon, 1975 July p. 92.
- MECHANICAL HARVESTING, by Clarence F. Kelly, 1967 Aug. p. 50. [329]
- MECHANICAL PROPERTIES OF POLYMERS, THE, by Arthur V. Tobolsky, 1957 Sept. p. 120.
- MECHANISM OF BREATHING, THE, by Wallace O. Fenn, 1960 Jan. p. 138.
- MECHANISM OF DISEASE RESISTANCE IN PLANTS, A, by Gary A. Strobel, 1975 Jan. p. 80. [1313]
- MECHANISM OF IMMUNITY, THE, by Sir Macfarlane Burnet, 1961 Jan. p. 58. [78]
- MECHANISM OF LIGHTNING, THE, by Leonard B. Loeb, 1949 Feb. p. 22.
- MECHANISM OF MUSCULAR CONTRACTION, THE, by H. E. Huxley, 1965 Dec. p. 18. [1026]
- MECHANISM OF PHOTOSYNTHESIS, THE, by R. P. Levine, 1969 Dec. p. 58. [1163]
- MECHANISMS FOR THE GENERATION OF LIFT IN FLYING ANIMALS, UNUSUAL, by Torkel Weis-Fogh, 1975 Nov. p. 80. [1331]
- MECHANISMS IN MOVEMENT BRAIN, by Edward V. Evarts, 1973 July p. 96. [1277]
- MECHANISMS OF THE EYE, CONTROL, by Derek H. Fender, 1964 July p. 24. [187]
- MEDICAL BUSINESS, THE, by James L. Goddard, 1973 Sept. p. 161.
- MEDICAL CARE IN CHINA, THE DELIVERY OF, by Victor W. Sidel and Ruth Sidel, 1974 Apr. p. 19.
- MEDICAL CARE IN THE U.S., by Osler L. Peterson, 1963 Aug. p. 19.
- MEDICAL CARE, INTERNATIONAL COMPARISONS OF, by Kerr L. White, 1975 Aug. p. 17.
- MEDICAL CARE, THE DELIVERY OF, by Sidney R. Garfield, 1970 Apr. p. 15.
- MEDICAL CARE, THE ORGANIZATION OF, by Ernest W. Saward, 1973 Sept. p. 169.
- MEDICAL DIAGNOSIS, ENZYMES IN, by Felix Wróblewski, 1961 Aug. p. 99.
- MEDICAL DIAGNOSIS, ULTRASOUND IN, by Gilbert B. Devey and Peter N. T. Wells, 1978 May p. 98. [1389]
- MEDICAL ECONOMICS, METROPOLITAN, by Nora K. Piore, 1965 Jan. p. 19.
- MEDICAL ECONOMY, THE, by Martin S. Feldstein, 1973 Sept. p. 151.
- MEDICAL GRADUATE, THE FOREIGN, by Stephen S. Mick, 1975 Feb. p. 14.
- MEDICAL MALPRACTICE, by David S. Rubsamen, 1976 Aug. p. 18.
- MEDICAL SCHOOL, THE, by Robert H. Ebert, 1973 Sept. p. 138.
- MEDICAL THERMOGRAPHY, by Jacob Gershon-Cohen, 1967 Feb. p. 94.
- MEDICATION, THE ORIGINS OF HYPODERMIC, by Norman Howard-Jones, 1971 Jan. p. 96. MEDICINE CHELATION IN, by Jack Schubert, 1966
- May p. 40. MEDICINE, FATHER OF AVIATION, by J. M. D. Olmsted, 1952 Jan. p. 66.

- MEDICINE, IONIZING RADIATION AND, by Shields Warren, 1959 Sept. p. 164.
- MEDICINE, LIFE AND DEATH, AND., 1973 Sept. issue.
- MEDICINE, LIFE AND DEATH AND, by Kerr L. White, 1973 Sept. p. 22.
- MEDICINE, PRIMITIVE, by Elizabeth A. Ferguson, 1948 Sept. p. 24.
- MEDICINE, SOCIAL, by Brock Chisholm, 1949 Apr. p. 11.
- MEDICINE, THE TASK OF, by William H. Glazier, 1973 Арг. р. 13.
- MEDIEVAL USES OF AIR, by Lynn White, Jr., 1970 Aug. p. 92. [336]
- MEDIEVAL VILLAGE IN ENGLAND, A DESERTED, by Maurice Beresford, 1976 Oct. p. 116.
- MEDITATION, THE PHYSIOLOGY OF, by Robert Keith Wallace and Herbert Benson, 1972 Feb. p. 84. [1242]
- MEDITERRANEAN DRIED UP, WHEN THE, by Kenneth J. Hsü, 1972 Dec. p. 26. [904]
- MEDITERRANEAN PROJECT, THE, by Egon Glesinger, 1960 July p. 86.
- MEKONG RIVER PLAN, THE, by Gilbert F. White. 1963 Apr. p. 49.
- MELANISM AND CLEAN AIR MOTHS,, by J. A. Bishop and Laurence M. Cook, 1975 Jan. p. 90. [1314]
- MELODY, INFORMATION THEORY AND, by Richard C. Pinkerton, 1956 Feb. p. 77.
- MEMBRANE OF SALT-LOVING BACTERIA, THE PURPLE, by Walther Stoeckenius, 1976 June p. 38. [1340]
- MEMBRANE OF THE LIVING CELL, THE, by J. David Robertson, 1962 Apr. p. 64. [151]
- MEMBRANE OF THE MITOCHONDRION, THE, by Efraim Racker, 1968 Feb. p. 32. [1101]
- MEMBRANE, PORES IN THE CELL, by A. K. Solomon, 1960 Dec. p. 146. [76]
- MEMBRANES, A DYNAMIC MODEL OF CELL, by Roderick A. Capaldi, 1974 Mar. p. 26. [1292]
- MEMBRANES COLICINS AND THE ENERGETICS OF CELL, by Salvador E. Luria, 1975 Dec. p. 30. [1332]
- MEMBRANES, THE CHEMISTRY OF CELL, by Lowell E. and Mabel R. Hokin, 1965 Oct. p. 73.
- MEMBRANES, THE STRUCTURE OF CELL, by C. Fred Fox, 1972 Feb. p. 30. [1241]
- MEMORIES, COMPUTER,, by Louis N. Ridenour, 1955 June p. 92.
- MEMORIES, INTEGRATED COMPUTER, by Jan A. Rajchman, 1967 July p. 18.
- MEMORIES MICROELECTRONIC, by David A. Hodges, 1977 Sept. p. 130. [378]
- MEMORY AND PROTEIN SYNTHESIS, by Bernard W. Agranoff, 1967 June p. 115. [1077]
- MEMORY, COMPUTER LOGIC AND, by David C. Evans, 1966 Sept. p. 74.
- MEMORY, INFORMATION AND, by George A. Miller, 1956 Aug. p. 42. [419]
- MEMORY, SHORT-TERM, by Lloyd R. Peterson, 1966 July p. 90. [499]
- MEMORY, SPATIAL, by David S. Olton, 1977 June p. 82. [578]
- MEMORY, THE CONTROL OF SHORT-TERM, by Richard C. Atkinson and Richard M. Shiffrin, 1971 Aug. p. 82. [538] MEMORY? WHAT IS, by Ralph W. Gerard, 1953
- Sept. p. 118. [11]
- MENTAL DISEASE, THE EPIDEMIOLOGY OF, by Ernest M. Gruenberg, 1954 Mar. p. 38. [441] MENTAL HEALTH OF THE HUTTERITES. THE, by Joseph W. Eaton and Robert J. Weil, 1953
- Dec. p. 31. [440] MENTAL HEALTH SERVICES, DEINSTITUTIONALIZATION AND, by Ellen L.

- Bassuk and Samuel Gerson, 1978 Feb. p. 46. [581]
- MERCHANT CLASS, THE RISE OF A MAYA, by Jeremy A. Sabloff and William L. Rathje, 1975 Oct. p. 72.
- MERCURY, by Bruce C. Murray, 1975 Sept. p. 58. MERCURY IN THE ENVIRONMENT, by Leonard J. Goldwater, 1971 May p. 15. [1221]
- MERCURY, MEASUREMENT BY, by William F. Meggers, 1948 Aug. p. 48.
- MESONIC ATOMS, by Sergio DeBenedetti, 1956 Oct. p. 93. [207]
- MESOZOA, THE, by Elliot A. Lapan and Harold J. Morowitz, 1972 Dec. p. 94. [1262]
- MESSENGER RNA, by Jerard Hurwitz and J. J. Furth, 1962 Feb. p. 41. [119]
- MESSENGERS OF THE NERVOUS SYSTEM, by Amedeo S. Marrazzi, 1957 Feb. p. 86. METABOLISM, ALCOHOLICS AND, by Roger J.
- Williams, 1948 Dec. p. 50. METABOLISM DISEASES, HEREDITARY FAT-, by
- Roscoe O. Brady, 1973 Aug. p. 88. METABOLISM, GOUT AND, by DeWitt Stetten, Jr., 1958 June p. 73.
- METABOLISM, HEART, by Richard J. Bing, 1957 Feb. p. 50.
- METABOLISM OF ALCOHOL, THE, by Charles S. Lieber, 1976 Mar. p. 25. [1336]
- METABOLISM OF CITIES, THE, by Abel Wolman, 1965 Sept. p. 178.
- METABOLISM OF FATS, THE, by David E. Green, 1954 Jan. p. 32, [16]
- METABOLISM OF HUMMINGBIRDS, THE, by Oliver P. Pearson, 1953 Jan. p. 69.
- METABOLISM OF RUMINANTS, THE, by Terence A. Rogers, 1958 Feb. p. 34.
- METABOLIZES FOREIGN SUBSTANCES, HOW THE LIVER, by Attallah Kappas and Alvito P. Alvares, 1975 June p. 22. [1322]
- METAL DEPOSITS IN THE OCEANIC LITHOSPHERE, THE ORIGIN OF, by Enrico Bonatti, 1978 Feb. p. 54. [929]
- metal, the forming of sheet, by S. S. Hecker and A. K. Ghosh, 1976 Nov. p. 100.
- METAL, TITANIUM: A NEW, by George A. W. Boehm, 1949 Apr. p. 48. [258] METAL "WHISKERS", by S. S. Brenner, 1960 July
- p. 64.
- metallica, de re: georgii agricolae, 1951 Feb. p. 46.
- METALLIDING, by Newell C. Cook, 1969 Aug.
- METALLURGY IN THE NEW WORLD, EARLY, by Dudley T. Easby, Jr., 1966 Apr. p. 72. METAL-OXIDE-SEMICONDUCTOR TECHNOLOGY, by
- William C. Hittinger, 1973 Aug. p. 48. METALS, ALIGNED CRYSTALS IN, by B. D. Cullity,
- 1959 Apr. p. 125. METALS, ANIONS OF THE ALKALI, by James L. Dye, 1977 July p. 92. [368]
- METALS AT HIGH TEMPERATURES, THE DEFORMATION OF, by Hugh J. McQueen and
- W. J. McGregor Tegart, 1975 Apr. p. 116. METALS CONDUCTION ELECTRONS IN, by M. Ya'. Azbel, M. I. Kaganov and I. M. Lifshitz, 1973 Jan. p. 88.
- METALS, DIFFUSION IN, by B. D. Cullity, 1957 May p. 103.
- METALS, DISLOCATIONS IN, by Frank B. Cuff, Jr., and L. McD. Schetky, 1955 July p. 80. [204] METALS, FIBER-REINFORCED, by Anthony Kelly, 1965 Feb. p. 28.
- METALS, IONIZING RADIATION AND, by Douglas S. Billington, 1959 Sept. p. 200.
 METALS, LIQUID, by N. W. Ashcroft, 1969 July
- p. 72.

- METALS, PURE, by Lawrende P. Lessing, 1954 July p. 36.
- METALS, SUPERPLASTIC, by H. W. Hayden, R. C. Gibson and J. H. Brophy, 1969 Mar. p. 28.
- METALS, THE FERMI SURFACE OF, by A. R. Mackintosh, 1963 July p. 110. METALS, THE NATURE OF, by A. H. Cottrell, 1967
- Sept. p. 90. METAL-VAPOR LASERS, by William T. Silfvast,
- 1973 Feb. p. 88. METAMORPHOSIS OF INSECTS, THE, by Carroll M.
- Williams, 1950 Apr. p. 24. METAMORPHOSIS, POLYMORPHISM,
- DIFFERENTIATION, by V. B. Wigglesworth, 1959 Feb. p. 100. metamorphosis, the chemistry of amphibian,
- by Earl Frieden, 1963 Nov. p. 110. [170]
- METEOR CRATER, THE CANADIAN, by V. B. Meen, 1951 May p. 64.
- METEOR OF 1947, THE GREAT, by Otto Struve, 1950 June p. 42. METEORITE CRATERS, FOSSIL, by C. S. Beals, 1958
- July p. 32. METEORITES AND COSMIC RADIATION, by I. R.
- Cameron, 1973 July p. 64.
- METEORITES, DIAMONDS IN, by Edward Anders, 1965 Oct. p. 26.
- METEORITES, ORGANIC MATTER IN, by James G. Lawless, Clair E. Folsome and Keith A. Kvenvolden, 1972 June p. 38. [902]
- METEORITES, THE ORIGIN OF, by S. Fred Singer, 1954 Nov. p. 36.
- METEORITIC DUST, COSMIC SPHERULES AND, by Hans Pettersson, 1960 Feb. p. 123.
- METEOROLOGY OF JUPITER, THE, by Andrew P. Ingersoll, 1976 Mar. p. 46.
 METEORS, by Fletcher G Watson, 1951 June
- p. 22.
- METRIC SYSTEM, CONVERSION TO THE, by Lord Ritchie-Calder, 1970 July p. 17. [334] METROPOLIS, CALCUTTA: A PREMATURE, by
- Nirmal Kumar Bose, 1965 Sept. p. 90. METROPOLIS, THE MODERN, by Hans Blumenfeld,
- 1965 Sept. p. 64. METROPOLITAN MEDICAL ECONOMICS, by Nora K. Piore, 1965 Jan. p. 19.
- METROPOLITAN REGION, NEW YORK: A, by Benjamin Chinitz, 1965 Sept. p. 134.
- METROPOLITAN SEGREGATION, by Morton Grodzins, 1957 Oct. p. 33.
- MEXICO, THE AGRICULTURE OF, by Edwin J. Wellhausen, 1976 Sept. p. 128.
- MEXICO, THE CHINAMPAS OF, by Michael D. Coe, 1964 July p. 90. [648]
- MICE POPULATIONS OF HOUSE, by Robert L. Strecker, 1955 Dec. p. 92.
- MICHELSON-MORLEY EXPERIMENT, THE, by R. S. Shankland, 1964 Nov. p. 107.
- MICROBIAL LIFE IN THE DEEP SEA, by Holger W. Jannasch and Carl O. Wirsen, 1977 June
- p. 42. [926] MICROCIRCUITS BY ELECTRON BEAM, by A. N. Broers and M. Hatzakis, 1972 Nov. p. 34.
- MICROCIRCUITS IN THE NERVOUS SYSTEM, by Gordon M. Shepherd, 1978 Feb. p. 92. [1380]
- MICROCIRCULATION OF THE BLOOD, THE, by Benjamin W. Zweifach, 1959 Jan. p. 54. MICROCOMPUTERS, by André G. Vacroux, 1975
- May p. 32. MICROELECTRONIC CIRCUIT ELEMENTS, by James D. Meindl, 1977 Sept. p. 70. [375]
- MICROELECTRONIC CIRCUITS, THE LARGE-SCALE INTEGRATION OF, by William C. Holton, 1977 Sept. p. 82. [376]
- MICROLLECTRONIC CIRCUITS, THE FABRICATION or, by William G. Oldham, 1977 Sept. p. 110. [377]

- MICROELECTRONIC MEMORIES, by David A. Hodges, 1977 Sept. p. 130. [378]
- MICROELECTRONICS, 1977 Sept. issue. MICROELECTRONICS, by William C. Hittinger and Morgan Sparks, 1965 Nov. p. 56.
- MICROELECTRONICS, by Robert N. Noyce, 1977 Sept. p. 62. [374]
- MICROELECTRONICS AND COMPUTER SCIENCE, by Ivan E. Sutherland and Carver A. Mead, 1977 Sept. p. 210. [383]
- MICROELECTRONICS AND THE PERSONAL COMPUTER, by Alan C. Kay, 1977 Sept. p. 230. [384]
- MICROELECTRONICS IN COMMUNICATION, THE ROLE OF, by John S. Mayo, 1977 Sept. p. 192.
- MICROELECTRONICS IN DATA PROCESSING, THE ROLE OF, by Lewis M. Terman, 1977 Sept. p. 162. [380]
- MICROELECTRONICS IN INSTRUMENTATION AND CONTROL, THE ROLE OF, by Bernard M. Oliver, 1977 Sept. p. 180. [381]
- MICROGRAPHS, SOAP, 1952 Feb. p. 58.
- MICROMETEOROLOGY, by Sir Graham Sutton, 1964 Oct. p. 62.
- MICROPALEONTOLOGY, by David B. Ericson and Goesta Wollin, 1962 July p. 96. [856]
- MICROPROCESSORS, by Hoo-Min D. Toong, 1977 Sept. p. 146. [379]
- MICROSCOPE, A "FLYING-SPOT", by P. O'B. Montgomery and W. A. Bonner, 1958 May
- MICROSCOPE, A HIGH-RESOLUTION SCANNING ELECTRON, by Albert V. Crewe, 1971 Apr. p. 26.
- MICROSCOPE, A NEW, by Erwin W. Müller, 1952 May p. 58.
- MICROSCOPE, A TOPOGRAPHIC, by Samuel Tolansky, 1954 Aug. p. 54.
- MICROSCOPE, ATOMIC, 1951 July p. 56.
- MICROSCOPE, THE SCANNING ELECTRON, by Thomas E. Everhart and Thomas L. Hayes, 1972 Jan. p. 54.
- MICROSCOPE, THE X-RAY, by Paul Kirkpatrick, 1949 Mar. p. 44.
- MICROSEISMS, by L. Don Leet, 1949 Feb. p. 42. MICROSOME, THE, by Paul C. Zamecnik, 1958 Mar. p. 118. [52]
- MICROSTRUCTURE OF POLYMERIC MATERIALS. THE, by D. R. Uhlmann and A. G. Kolbeck, 1975 Dec. p. 96.
- MICROSTRUCTURE OF THE OCEAN, THE, by Michael C. Gregg, 1973 Feb. p. 64. [905]
- MICROSURGERY, by M. J. Kopac, 1950 Oct.
- MICROVASCULAR SURGERY FOR STROKE, by Jack M. Fein, 1978 Apr. p. 58. [1385]
- MICROWAVE DIODES, TECHNOLOGY ASSESSMENT AND, by Raymond Bowers and Jeffrey Frey, 1972 Feb. p. 13.
- MICROWAVES, by J. R. Pierce, 1952 Aug. p. 43. MICROWAVES, A SOLID-STATE SOURCE OF, by Raymond Bowers, 1966 Aug. p. 22.
- MIDAS, THE CITY OF, by Machteld J. Mellink, 1959 July p. 100.
- MID-ATLANTIC RIFT. THE FLOOR OF THE, by J. R. Heirtzler and W. B. Bryan, 1975 Aug. p. 78.
- MIDDLE CLASS, WORLD RESOURCES AND THE WORLD, by Nathan Keyfitz, 1976 July p. 28. MIDDLE EAST OIL, by F. Julius Fohs, 1948 Sept. p. 9.
- MIDGETS, GENERAL TOM THUMB AND OTHER, by Victor A. McKusick and David L. Rimoin, 1967 July p. 102.
- MIGRAINES, THE FORTIFICATION ILLUSIONS OF, by Whitman Richards, 1971 May p. 88. [536]

- MIGRATION OF INSECTS. THE AERIAL, by C. G. Johnson, 1963 Dec. p. 132. [173]
- MIGRATION OF POLAR BEARS. THE, by Vagn Flyger and Marjorie R. Townsend, 1968 Feb. p. 118.
- migrations of human populations. The, by Kingsley Davis, 1974 Sept. p. 92.
- MIGRATIONS OF THE SHAD, THE, by William C. Leggett, 1973 Mar. p. 92. [1268]
- MIGRATORY BIRD, THE STELLAR-ORIENTATION SYSTEM OF A, by Stephen T. Emlen, 1975 Aug. p. 102. [1327]
- MILITARY TECHNOLOGY AND NATIONAL SECURITY, by Herbert F. York, 1969 Aug. p. 17. [330] MILK, by Stuart Patton, 1969 July p. 58. MILK, THE SYNTHESIS OF, by J. M. Barry, 1957
- Oct. p. 121. MILKY WAY, THE, by Bart J. Bok, 1950 Feb. p. 30. MILLING, CHEMICAL, by Edmund L. Van Deusen,
- 1957 Jan. p. 104. MIMICRY IN PARASITIC BIRDS, by Jürgen Nicolai, 1974 Oct. p. 92.
- MIND, EARLY CONCEPTS OF THE SENSES AND THE, by A. C. Crombie, 1964 May p. 108. [184]
- MIND, PALEONEUROLOGY AND THE EVOLUTION OF, by Harry J. Jerison, 1976 Jan. p. 90. [568] MIND, THE EVOLUTION OF, by Norman L. Munn,
- 1957 June p. 140. MINE, GAS FROM THE, by Leonard Engel, 1950 June p. 52.
- MINERAL CYCLES, by Edward S. Deevey, Jr., 1970 Sept. p. 148. [1195]
- MINERAL RESOURCES, PLATE TECTONICS AND, by Peter A. Rona, 1973 July p. 86. [909]
- MINERALS, by Julian W. Feiss, 1963 Sept. p. 128. MINERALS ON THE OCEAN FLOOR, by John L. Mero, 1960 Dec. p. 64.
- MINING OF WESTERN COAL, THE STRIP-, by Genevieve Atwood, 1975 Dec. p. 23.
- MIRAGES, by Alistair B. Fraser and William H. Mach, 1976 Jan. p. 102.
- MISSILE SUBMARINES AND NATIONAL SECURITY, by Herbert Scoville, Jr., 1972 June p. 15. [344]
- MISSILE SYSTEMS, ANTI-BALLISTIC-, by Richard L. Garwin and Hans A. Bethe, 1968 Mar. p. 21. MISSILES CRUISE, by Kosta Tsipis, 1977 Feb.
- p. 20. [691] MISSILES, MULTIPLE-WARHEAD, by Herbert F. York, 1973 Nov. p. 18.
- MISSILES, THE ACCURACY OF STRATEGIC, by Kosta Tsipis, 1975 July p. 14.
- MISSISSIPPI A PRE-COLUMBIAN URBAN CENTER ON тне, by Melvin L. Fowler, 1975 Aug. p. 92. [688]
- MISSISSIPPI, MOUNT BUILDERS OF THE, by James A. Ford, 1952 Mar. p. 22.
- MISSISSIPPI, PARADOXES OF THE, by Gerard H. Matthes, 1951 Apr. p. 18. [836]
- MITOCHONDRIA AND CHLOROPLASTS, THE GENETIC ACTIVITY OF, by Ursula W. Goodenough and R. P. Levine, 1970 Nov. p. 22. [1203]
- MITOCHONDRION, THE, by David E. Green, 1964 Jan. p. 63.
- MITOCHONDRION, THE MEMBRANE OF THE, by Efraim Racker, 1968 Feb.32. [1101]
- MOAS. THE END OF THE, by Edward S. Deevey, Jr., 1954 Feb. p. 84.
- MOBILIZATION, by Arthur S. Flemming, 1951 Sept. p. 89.
- MODEL OF THE NUCLEUS, A, by Victor F. Weisskopf and E. P. Rosenbaum, 1955 Dec. p. 84. [261]
- MODELS OF OCEANIC CIRCULATION, by D. James Baker, Jr., 1970 Jan. p. 114. [890]
- MODERN COSMOLOGY, by George Gamow, 1954 Mar. p. 54.

- MODERN CRYPFOLOGY, by David Kahn, 1966 July p 38
- MODERN METROPOLIS THE, by Hans Blumenfeld, 1965 Sept p 64
- MODULATION OF LASER LIGHT THE, by Donald F Nelson, 1968 June p 17
- MODULATION PULSE CODE, by J S Mayo, 1968 Mar p 102
- моноле, тне, by Willard Bascom, 1959 Apr р 41
- Moire patterns, by Gerald Oster and Yasunori Nishijima, 1963 May p 54 [299]
- MOLDS AND MEN, by Ralph Emerson, 1952 Jan p 28 [115]
- MOLDS COMMUNICATE, HOW SLIME, by John Tyler Bonner, 1963 Aug p 84 [164]
- MOLDS THE GENES OF MEN AND, by George W Beadle, 1948 Sept p 30 [1]
- MOLECULAR BEAMS, by O R Frisch, 1965 May p 58
- MOLECULAR BIOLOGY OF POLIOVIRUS THE, by Deborah H Spector and David Baltimore, 1975 May p 24
- MOLECULAR ISOMERS IN VISION, by Ruth Hubbard and Allen Kropf, 1967 June p 64 [1075]
- MOLECULAR MODEL BUILDING BY COMPUTER, by Cyrus Levinthal, 1966 June p 42 [1043]
- MOLECULAR MOTIONS, by B J Alder and Thomas E Wainwright, 1959 Oct p 113 [265]
- MOLECULAR SIEVES, by D W Breck and J V Smith, 1959 Jan p 85
- MOLECULE OF INFECTIOUS DRUG RESISTANCE, THE, by Royston C Clowes, 1973 Apr p 18 [1269]
- MOLECULE OF LIVING MATTER AN UNIVERSAL, by Martin Kamen, 1958 Aug p 77
- MOLECULE, THE ACTH, by Choh Hao Li, 1963
 July p 46 [160]
- MOLECULE THE HEMOGLOBIN, by M F Pertutz, 1964 Nov p 64 [196]
- MOLECULE THE INSULIN, by E O P Thompson, 1955 May p 36
- MOLECULE THE THREE DIMENSIONAL STRUCTURE OF AN ENZYME, by David C Phillips, 1966 Nov p 78 [1055]
- MOLECULE, THE THREE DIMENSIONAL STRUCTURE OF A PROTEIN, by John C Kendrew, 1961 Dec p 96 [121]
- MOLECULES ARE MADE, HOW GIANT, by Giulio Natta, 1957 Sept p 98
- MOLECULES ARE MEASURED HOW GIANT, by Peter J W Debye, 1957 Sept p 90
- MOLECULES GIANT, 1957 Sept Issue MOLECULES GIANT, by Herman F Mark, 1957
- Sept p 80
 MOLECULES HOW CELLS MAKE, by Vincent G
 Allfrey and Alfred E Mirsky, 1961 Sept
 p 74 [92]
- MOLECULES IN CELLS AND TISSUES GIANT, by Francis O Schmitt, 1957 Sept p 204 [35] MOLECULES INTERSTELLAR, by Barry E Turner,
- 1973 Mar p 50
 MOLECULES THE FORCE BETWEEN, by Boris V
 Derjaguin, 1960 July p 47
- MOLECULES THE NATURE OF AROMATIC, by Ronald Breslow, 1972 Aug p 32
- MOLECULES THE SHAPES OF ORGANIC, by Joseph B Lambert, 1970 Jan p 58 [331]
- MOLECULES THE STRUCTURE OF PROTEIN, by Linus Pauling, Robert B Corey and Roger Hayward, 1954 July p 51 [31]
- MOLLUSKS GIANT BRAIN CELLS IN, by A O D
 Willows, 1971 Feb p 68 [1212]
- MOMENT OF FERTILIZATION THE, by Robert D Allen, 1959 July p 124

- MONEY RED FEATHER, by William Davenport, 1962 Mar p 94
- MONGOL CONQUESTS CHINGIS KHAN AND THE, by
 Owen Lattimore, 1963 Aug p 54
 MONGOLISM by Theodore H. Ingalia, 1962 Feb.
- MONGOLISM, by Theodore H Ingalls, 1952 Feb p 60
- MONKEY? OREOPITHECUS HOMUNCULUS OR, by Loren C Eiseley, 1956 June p 91
- MONKEY WAR THE END OF THE, by L Sprague de Camp, 1969 Feb p 15
- MONKEYS CURIOSITY IN, by Robert A Butler, 1954 Feb p 70
- MONKEYS LOVE IN INFANT, by Harry F Harlow, 1959 June p 68 [429]
- MONKEYS SOCIAL DEPRIVATION IN, by Harry F and Margaret Kuenne Harlow, 1962 Nov p 136 [473]
- MONKEYS ULCERS IN EXECUTIVE, by Joseph V Brady, 1958 Oct p 95 [425]
- MONKEYS URBAN, by Sheo Dan Singh, 1969 July p 108 [523]
- MONMOUTH FORT, by John B Phelps and Ernest C Pollard, 1954 June p 29
- MONOMOLECULAR FILMS, by Herman E Ries, Jr, 1961 Mar p 152
- MONOMOLECULAR LAYERS AND LIGHT, by Karl H Drexhage, 1970 Mar p 108
- MONOPOLES MAGNETIC, by Kenneth W Ford, 1963 Dec p 122
- MONTE CARLO METHOD THE, by Daniel D McCracken, 1955 May p 90
- MOON A ROCKET AROUND THE, by Krafft A
 Ehricke and George Gamow, 1957 June p 47
 MOON ILLUSION THE, by Lloyd Kaufman and
- Irvin Rock, 1962 July p 120 [462] MOON LOCATING RADIO SOURCES WITH THE, by R
- W Clarke, 1966 June p 30
- MOON SYSTEM TIDES AND THE EARTH, by Peter Goldreich, 1972 Apr p 42
- MOON TEKTITES AND IMPACT FRAGMENTS FROM THE, by John A O'Keefe, 1964 Feb p 50
- MOON THE, by John A Wood, 1975 Sept p 92 MOON THE CARBON CHEMISTRY OF THE, by Geoffrey Eglinton, James R Maxwell and
- Colin T Pillinger, 1972 Oct p 80
 MOON THE CRATERS OF THE, by Ralph B
- Baldwin, 1949 July p 20 moon the exploration of the, by Robert
- Jastrow, 1960 May p 61 MOON THE EXPLORATION OF THE, by Wilmot Hess, Robert Kovach, Paul W Gast and Gene
- Simmons, 1969 Oct p 54 [889] MOON THE FEEL OF THE, by Ronald F Scott, 1967 Nov p 34
- MOON THE GEOLOGY OF THE, by Eugene M Shoemaker, 1964 Dec p 38
- MOON THE LUMINESCENCE OF THE, by Zdeněk Kopal, 1965 May p 28
- MOON THE LUNAR ORBITER MISSIONS TO THE, by Ellis Levin, Donald D Viele and Lowell B
- Eldrenkamp, 1968 May p 58 MOON THE MAGNETISM OF THE, by Palmer Dyal and Curtis W Parkin, 1971 Aug p 62
- MOON THE RANGER MISSIONS TO THE, by H M Schurmeier, R L Heacock and A E Wolfe, 1966 Jan p 52
- MOON THE SURFACE OF THE, by Albert R Hibbs, 1967 Mar p 60
- MORE ABOUT BAT RADAR, by Donald R Griffin, 1958 July p 40 [1121]
- MORE FROM THE CENSUS OF 1960, by Philip M Hauser, 1962 Oct p 30
- MORE ON THE LANGUAGE OF THE BEES, by Hans Kalmus, 1953 July p 60
- MORLEY EXPERIMENT THE MICHELSON, by R S Shankland, 1964 Nov p 107

- MORTALITY OF MEN AND WOMEN THE, by Amram Scheinfeld, 1958 Feb p 22
- MORTALITY OF TROUT THE, by Paul R Needham, 1953 May p 81
- MOSAICS GENETIC, by Aloha Hannah-Alava, 1960 May p 118
- MOSQUITO REPELLENTS REPEL WHY, by R H Wright, 1975 July p 104
- MOSQUITO THE SEXUAL LIFE OF A, by Jack Colvard Jones, 1968 Apr p 108
- MOSQUITOES THE FEEDING BEHAVIOR OF, by Jack Colvard Jones, 1978 June p 138 [1392]
- MÖSSBAUER EFFECT THE, by Sergio DeBenedetti, 1960 Apr p 72 [271]
- MOSSBAUER SPECTROSCOPY, by R H Herber, 1971 Oct p 86
- MOST POISONOUS MUSHROOMS THE, by Walter Litten, 1975 Mar p 90
- MOST PRIMITIVE OBJECTS IN THE SOLAR SYSTEM THE, by Lawrence Grossman, 1975 Feb p 30
- MOTHER AND INFANT THE ROLE OF THE HEARTBEAT IN THE RELATIONS BETWEEN, by Lee Salk, 1973 May p 24
- MOTHS AND ULTRASOUND, by Kenneth D Roeder, 1965 Apr p 94 [1009]
- MOTHS MELANISM AND CLEAN AIR, by J A
 Bishop and Laurence M Cook, 1975 Jan
 p 90 [1314]
- MOTHS TEMPERATURE CONTROL IN FLYING, by Bernd Heinrich and George A Bartholomew, 1972 June p 70 [1252]
- MOTHS THE SEX ATTRACTANT RECEPTOR OF, by Dietrich Schneider, 1974 July p 36 [1299] MOTION AND POTENTIAL THEORY BROWNIAN, by Reuben Hersh and Richard J Griego, 1969
- Mar p 66 MOTION MACHINES PERPETUAL, by Stanley W Angrist, 1968 Jan p 114
- MOTION OF THE GROUND IN EARTHQUAKES THE, by David M Boore, 1977 Dec p 68 [928]
- MOTION PERCEPTION VISUAL, by Gunnar Johansson, 1975 June p 76 [564]
- MOTION THE PERCEPTION OF, by Hans Wallach, 1959 July p 56 [409]
- MOTIVATION THE MEASUREMENT OF, by H J Eysenck, 1963 May p 130 [477]
- MOUND BUILDERS OF THE MISSISSIPPI, by James A Ford, 1952 Mar p 22
- MOUNT MCKINLEY MAPPING, by Bradford Washburn, 1949 Jan p 46
- MOUNTAINS AND CONTINENT BUILDING
 GEOSYNCLINES, by Robert S Dietz, 1972 Mar
 p 30 [899]
- MOUSE, THE PHYSIOLOGY OF THE HOUSE, by Daniel S Fertig and Vaughan W Edmonds, 1969
 Oct p 103 [1159]
- MOVEMENT BRAIN MECHANISMS IN, by Edward V Evarts, 1973 July p 96 [1277]
- MOVEMENT THE ILLUSION OF, by Paul A Kolers, 1964 Oct p 98 [487]
- MOVEMENTS OF THE EYE, by E Llewellyn Thomas, 1968 Aug p 88 [516]
- MOVEMENTS THE COORDINATION OF EYE HEAD, by Emilio Bizzi, 1974 Oct p 100 [1305] MOVING TARGETS THE PERCEPTION OF, by Robert
- Sekuler and Eugene Levinson, 1977 Jan p 60 [575]
- MOVING THE OBELISK, by Bern Dibner, 1951 June p 58
- MULE, THE, by Theodore H. Savory, 1970 Dec p. 102 [1208] MULTIPLE SCLEROSIS PROBLEM. THE, by Geoffrey
- Dean, 1970 July p 40
 MULTIPLE WARHEAD MISSILES, by Herbert F
- York, 1973 Nov p 18 MULTIPLICATION OF BACTERIAL VIRUSES THE, by
- Gunther S Stent, 1953 May p 36 [40]

Multiplicity of particles, the, by Robert E Marshak, 1952 Jan p 22

MULTISTABILITY IN PERCEPTION, by Fred Attneave, 1971 Dec p 62 [540]

NUON THE, by Sheldon Penman, 1961 July p 46 [275]

MUONIUM ATOM THE, by Vernon W Hughes, 1966 Apr p 93

nurder the prevention of, by Fredric Wertham, 1949 June p 50

Muscle artificial, by Teru Hayashi and George A. W. Boehm, 1952 Dec. p. 18 Muscle as a Machine, by A. Katchalsky and S.

Lifson, 1954 Mar p 72

MUSCLE CONTRACTION THE PROTEIN SWITCH OF,
by Carolyn Cohen, 1975 Nov p 36 [1329]

MUSCLE, HEART, 1951 Aug p 48

MUSCLE PROTEINS THE COOPERATIVE ACTION OF, by John M. Murray and Annemarie Weber, 1974 Feb. p. 58 [1290]

MUSCLERESEARCH, by A Szent-Gyorgyi, 1949
June p 22

MUSCLE THE CONTRACTION OF, by H E Huxley, 1958 Nov p 66 [19]

MUSCLE, THE EMBRYOLOGICAL ORIGIN OF, by Irwin R. Konigsberg, 1964 Aug p 61
MUSCLE TURNED ON AND OFF? HOW IS, by Graham Hoyle, 1970 Apr p 84 [1175]

MUSCLES HOW WE CONTROL THE CONTRACTION OF OUR, by P A Merton, 1972 May p 30 [1249] MUSCLES OF INSECTS THE FLIGHT, by David S Smith, 1965 June p 76 [1014]

MUSCULAR CONTRACTION THE MECHANISM OF, by H E. Huxley, 1965 Dec p 18 [1026]
MUSCULAR ENERGY THE SOURCES OF, by Rodolfo

Margaria, 1972 Mar p 84 [1244]

MUSEUM SCIENCE IN THE ABY DV Rutherford I

MUSEUM SCIENCE IN THE ART, by Rutherford J Gettens, 1952 July p 22

MUSHROOMS, THE GROWTH OF, by John Tyler Bonner, 1956 May p 97

MUSHROOMS, THE MOST POISONOUS, by Walter Litten, 1975 Mar p 90

MUSIC COMPUTER, by Lejaren A Hiller, Jr, 1959 Dec p 109

MUSIC IN GALILEO'S EXPERIMENTS THE ROLE OF, by Stillman Drake, 1975 June p 98 MUSIC PHYSICS AND, by Frederick A Saunders,

1948 July p 32 MUSICAL DYNAMICS, by Blake R Patterson, 1974

Nov p 78

MUSICAL ILLUSIONS, by Diana Deutsch, 1975

Oct p 92 [566]
MUSICAL TONES, by Hugh Lineback, 1951 May

MUTATION OF VIRUSES THE, by C A Knight and
Dean Fraser, 1955 July - 74, 1501

Dean Fraser, 1955 July p 74 [59]
NUTATION RADIATION AND HUMAN, by H J
Muller, 1955 Nov p 58 [29]

MUTATIONS IN PLANTS INDUCED, by Bjorn Sigurbjornsson, 1971 Jan p 86 [1210]

MYCENAE CITY OF AGAMEMINON, by George E Mylonas, 1954 Dec. p. 72

MYCENAEAN GREECE, LIFE IN, by John Chadwick, 1972 Oct p 36 [681]

MYSTERY OF CORN THE, by Paul C Mangelsdorf, 1950 July p 20 [26]

MYSTERY OF PIGEON HOMING THE, by William T Keeton, 1974 Dec p 96 [131] MYTH THE OEDIPUS, by Erich Fromm, 1949 Jan

p 22

N

NABATAEANS THE CAPITAL OF THE, by Peter J Part, 1963 Oct p 94

NARCOTIC ADDICTON EXPERIMENTAL, by James R Weeks, 1964 Mar p 46

NATION IN TURKEY A FORGOTTEN, by Seton Lloyd, 1955 July p. 42

NATIONAL HEALTH INSURANCE, by Michael M Davis, 1949 June p 11

NATIONAL RADIO OBSERVATORY A, by Bart J Bok, 1956 Oct p 56

NATIONAL SCIENCE FOUNDATION THE, by Alfred Winslow Jones, 1948 June p. 7

NATIONAL SCIENCE FOUNDATION TAKES STOCK THE, by Lawrence P Lessing, 1954 Mar p 29 NATIONAL SCIENCE POLICY A, by Chesier I

Barnard, 1957 Nov p 45
NATIONAL SECURITY AND THE NUCLEAR TEST BAN,
by Jerome B Wiesner and Herbert F York,
1964 Oct p 27 [319]

NATIONAL SECURITY ANTISUBMARINE WARFARE AND, by Richard L. Garwin, 1972 July p. 14 [345]

NATIONAL SECURITY MILITARY TECHNOLOGY AND, by Herbert F York, 1969 Aug p 17 [330]

NATIONAL SECURITY MISSILE SUBMARINES AND, by Herbert Scoville, Jr., 1972 June p. 15 [344] NATIONALITY AND CONFORMITY, by Stanley

Milgram, 1961 Dec p 45
NATURAL FISSION REACTOR, A, by George A

Cowan, 1976 July p 36 NATURAL GAS, by James J Parsons, 1951 Nov p 17

NATURAL GAS LIQUID, by Noel de Nevers, 1967 Oct p 30

NATURAL GAS THE IMPORTATION OF LIQUEFIED, by Elisabeth Drake and Robert C Reid, 1977 Apr p 22 [353]

NATURAL HISTORY OF A VIRUS, by Philip and Emily Morrison, 1949 Nov p 50

NATURAL RESOURCES REMOTE SENSING OF, by Robert N Colwell, 1968 Jan p 54

NATURAL SELECTION IN LANGUAGE, by Joshua Whatmough, 1952 Apr p 82

NATURAL URANIUM HEAVY WATER REACTORS, by Hugh C McIniyre, 1975 Oct p 17 "NATURE", 1950 Jan p 46

NATURE AND MEASUREMENT OF ANXIETY THE, by Raymond B Cattell, 1963 Mar p 96 [475]

NATURE, INSECT CONTROL AND THE BALANCE OF, by Ray F Smith and William W Allen, 1954 June p 38

NATURE OF ARONATIC MOLECULES, THE, by Ronald Breslow, 1972 Aug p 32 NATURE OF ASTEROIDS THE, by Clark R.

NATURE OF ASTEROIDS THE, by Clark R. Chapman, 1975 Jan p 24

NATURE OF CERANICS, THE, by John J. Gilman, 1967 Sept. p. 112

NATURE OF COMETS THE, by Fred L Whipple, 1974 Feb p 48

NATURE OF COMPOSITE MATERIALS, THE, by Anthony Kelly, 1967 Sept p 160

NATURE OF DREAMS THE, by Erich Fromm, 1949 May p 44 [495] NATURE OF GLASSES THE, by R. J Charles, 1967

Sept p 126
NATURE OF METALS, THE, by A. H. Cottrell, 1967

Sept p 90
NATURE OF OCEANIC LIFE, THE, by John D Isaacs,

1969 Sept p 146 [884] NATURE OF POLYMERIC MATERIALS, THE, by Herman F Mark, 1967 Sept p 148 NATURE OF PULSARS, THE, by Jeremuah P

Osinker, 1971 Jan p 48

NATURE OF SOLIDS, THE, by Gregory H Wannier, 1952 Dec p 39 [249]

NATURE, THE EVOLUTION OF THE PHYSICIST'S PICTURE OF, by P. A. M. Dirac, 1963 May p. 45

NAVAL RESEARCH THE OFFICE OF, by John E Pfeiffer, 1949 Feb p 11

NAVIGATION BETWEEN THE PLANETS, by William G Melbourne, 1976 June p 58

NAVIGATION BY BIRDS CELESTIAL, by E. G. F. Sauer, 1958 Aug. p. 42 [133]

NAVIGATION BY INSECTS POLARIZED-LIGHT, by Rudiger Wehner, 1976 July p 106 [1342] NAVIGATION FOR AIRCRAFT INERTIAL, by

Cornelius T Leondes, 1970 Mar p 80 NAVIGATION INTERPLANETARY, by Aubrey B Mickelwait, Edwin H Tompkins, Jr, and

Robert A Park, 1960 Mar p 64 NAVIGATION OF ANIMALS THE SUN, by Hans Kalmus, 1954 oct 74

NAVIGATION OF BATS THE, by Donald R. Griffin, 1950 Aug p 52

NAVIGATION OF BIRDS THE, by Donald R Griffin, 1948 Dec p 18

NAVIGATION OF PENGUINS THE, by John T Emlen and Richard L Penney, 1966 Oct p 104

NAVIGATION OF THE GREEN TURTLE, THE, by Archie Carr, 1965 May p 78 [1010]

NAVIGATION POLARIZED LIGHT AND ANIMAL, by Talbot H Waterman, 1935 July p 88 NEANDERTHAL MAN, by J E Weckler, 1957 Dec

p 89 [844] NEBULA THE AGE OF THE ORION, by Peter O Vandervoort, 1965 Feb p 90

NEBULA. THE CRAB, by Jan H. Oort, 1957 Mar p 52

NEBULA, THE DYNAMICS OF THE ANDROMEDA, by Vera C. Rubin, 1973 June p. 30

NEBULA THE GUM, by Stephen P Maran, 1971 Dec p 20

NEBULAE PLANETARY, by Martha and William Liller, 1963 Apr p 60

NEBULAS, THE STRUCTURE OF EMISSION, by Joseph S Miller, 1974 Oct p 34

NECESSITY OF FISSION POWER, THE, by H A Bethe, 1976 Jan p 21 [348]

NEGATIVE AFTEREFFECTS IN VISUAL PERCEPTION, by Olga Eizner Favreau and Michael C Corballis, 1976 Dec p. 42 [574]

NEGATIVE VISCOSITY, by Victor P Starr and Norman E Gaut, 1970 July p 72 NEGATIVE INCOME TAX EXPERIMENT A, by David

N Kershaw, 1972 Oct p 19
NEGRO THE BIOLOGY OF THE by Curt Stern 195.

NEGRO THE BIOLOGY OF THE, by Curt Stern, 1954
Oct p 80

NEGRO THE SOCIAL POWER OF THE, by James P Comer, 1967 Apr p 21 [633]

NEOGLACIATION, by George H Denton and Stephen C Porter, 1970 June p 100 NEOLITHIC CITY IN TURKEY A, by James Mellaart,

1964 Apr p 94 [620]
SECULTHIC TURKEY A HUNTERS VILLAGE IN, by
Dexter Perkins, Jr, and Patricia Daly, 1968
No. p 96

Nov p 96
NEOLITHIC VILLAGE IN GREECE, AN EARLY, by

Robert J Rodden, 1965 Apr p 82 SEOLITHIC VILLAGE SITE, HACILAR A, by James Mellaart, 1961 Aug p 86

NEPTUNE THE SOLAR SYSTEM BEYOND, by Owen Gingerich, 1959 Apr p 86

NERVE AXON THE, by Peter F Baker, 1966 Mar p 74 [1038]

Marcus Jacobson and R. Kevin Huni, 1973 Feb p 26 [1265] NERVE CELLS AND BEHAVIOR, by Eric R Kandel, 1970 July p 57 [1]82]

NERVE CELLS SMALL SYSTEMS OF, by Donald Kennedy, 1967 May p 44 [1073]

NERVE CIRCUITS THE GROWTH OF, by R W Sperry, 1959 Nov p 68 [72]

NERVE IMPULSE AND THE SQUID THE, by Richard Keynes, 1958 Dec p 83 [58]

NERVE IMPULSE, THE, by Bernhard Katz, 1952 Nov p 55 [20]

NERVE TISSUE, INTERACTIONS BETWEEN HORMONES AND, by Bruce S McEwen, 1976 July p 48 [1341]

NERVOUS DISEASE, ALLERGIC MECHANISMS IN, by Elvin A Kabat, 1949 July p 16

NERVOUS SYSTEM INHIBITION IN THE CENTRAL, by Victor J Wilson, 1966 May p 102

NERVOUS SYSTEM LEARNING IN THE AUTONOMIC. by Leo V DiCara, 1970 Jan p 30 [525]

NERVOUS SYSTEM MESSENGERS OF THE, by Amedeo S Marrazzi, 1957 Feb p 86

NERVOUS SYSTEM MICROCIRCUITS IN THE, by Gordon M Shepherd, 1978 Feb p 92 [1380]

NERVOUS SYSTEM OF THE LEECH THE, by John G Nicholls and David Van Essen, 1974 Jan p 38 [1287]

NERVOUS SYSTEM SATELLITE CELLS IN THE by Holger Hyden, 1961Dec 62 [134]

NESTOR'S PALACE, KING, by Carl W Blegen, 1958 Mayp 110

NESTS AIR CONDITIONED TERMITE, by Martin Luscher, 1961 July p 138

NET THE WONDERFUL, by P F Scholander, 1957 Apr p 96

NETWORK ANALYSIS, by Howard Frank and Ivan T Frisch, 1970 July p 94

NETWORKS COMMUNICATION, by Hiroshi Inose, 1972 Sept p 116

NETWORKS RURAL MARKET, by Stuart Platiner, 1975 May p 66

NEURAL BASIS OF VISUALLY GUIDED BEHAVIOR THE, by Jorg-Peter Ewert, 1974 Mar p 34 [1293]

NEUROBIOLOGY OF CRICKET SONG THE, by David Bentley and Ronald R Hoy, 1974 Aug p 34

NEUROPHYSIOLOGY OF BINOCULAR VISION THE, by John D Pettigrew, 1972 Aug p 84 [1255] NEUROPHYSIOLOGY OF REMEMBERING THE, by

Karl H Pribram, 1969 Jan p 73 [520] NEUROSES EXPERIMENTAL, by Jules H

Masserman, 1950 Mar p 38 [443] NEUROTRANSMITTERS, by Julius Axelrod, 1974 June p 58 [1297]

NEUTRAL COLORS THE PERCEPTION OF, by Hans Wallach, 1963 Jan p 107 [474]

NEUTRAL WEAK CURRENTS THE DETECTION OF, by David B Cline, A K Mann and Carlo Rubbia, 1974 Dec p 108

NEUTRING ASTRONOMY, by Philip Morrison, 1962 Aug p 90 [283]

NEUTRINO BEAMS EXPERIMENTS WITH, by Barry C Barish, 1973 Aug p 30

NEUTRINO THE, by Philip Morrison, 1956 Jan

p 58 neutrinos from the atmosphere and beyond, by Frederick Reines and J P F Sellschop, 1966 Feb p 40

NEUTRINOS FROM THE SUN, by John N Bahcall, 1969 July p 28

NEUTRON ACTIVATION ANALYSIS, by Weiner H Wahl and Henry H Kramer, 1967 Apr p 68 NEUTRON RADIOGRAPHY, by Harold Berger, 1962

Nov p 107 [287] NEUTRON SCATTERING STUDIES OF THE RIBOSOME, by Donald M Engelman and Peter B Moore, 1976 Oct p 44

NEUTRON SPECTROSCOPY FAST, by Lawrence Cranberg, 1964 Mar. p. 79

NEUTRON THE, by Philip and Emily Morrison, 1951 Oct p 44

NEUTRON THE STRUCTURE OF THE PROTON AND THE, by Henry W Kendall and Wolfgang Panofsky, 1971 June p 60

NEW CLASS OF DIODE LASERS A, by Morton B Panish and Izuo Hayashi, 1971 July p 32 NEW COVENANTERS OF QUMRAN THE, by Shemaryahu Talmon, 1971 Nov p 72

NEW ERA IN POLIO RESEARCH A, by Joseph L Melnick, 1952 Nov p 26

NEW METHODS FOR APPROACHING ABSOLUTE ZERO, by O V Lounasmaa, 1969 Dec p 26

NEW METHODS OF RADIO TRANSMISSION, by Jerome B Wiesner, 1957 Jan p 46

NEW MICROSCOPE, A, by Erwin W Muller, 1952 May p 58

NEW MODELS OF THE REAL NUMBER LINE, by Lynn Arthur Steen, 1971 Aug p 92

NEW PENICILLINS, by Anthony H Rose, 1961 Mar p 66

NEW PSYCHIATRIC DRUGS THE, by Harold E Himwich, 1955 Oct p 80

NEW SCALE OF STELLAR DISTANCES A, by O C Wilson, 1961 Jan p 107 [254]

NEW SCIENCE FOUNDATION THE, by M H Trytten, 1950 July p 11

NEW SUPERCONDUCTORS, by T H Geballe, 1971 Nov p 22

NEW THEORY OF TOOTH DECAY A, by Bernhard Gottlieb, 1948 Oct p 20

NEW WORLD CIVILIZATION THE ORIGINS OF, by Richard S MacNeish, 1964 Nov p 29 [625] NEW WORLD EARLY METALLURGY IN THE, by Dudley T Easby, Jr, 1966 Apr p 72 NEW YEAR GREETING A, by W H Auden, 1969

Dec p 134 NEW YORK A METROPOLITAN REGION, by Benjamin Chinitz, 1965 Sept p 134 NEWER ALCHEMY WAS RECEIVED HOW THE, by

Lawrence Badash, 1966 Aug p 88 NEWEST SYNTHETIC ELEMENTS THE, by Albert

Ghiorso and Glenn T Seaborg, 1956 Dec p 66 [243]

NEWFOUNDLAND AN ARCHAIC INDIAN CEMETERY IN, by James A Tuck, 1970 June p 112 [657] NEWSPAPER TRIAL BY, by Joseph T Klapper and Charles Y Glock, 1949 Feb p 16

NEWTON ISAAC, by I Bernard Cohen, 1955 Dec p 73

NICE, A PALEOLITHIC CAMP AT, by Henry de Lumley, 1969 May p 42

NICOLAS BOURBAKI, by Paul R Halmos, 1957 May p 88

NIGERIA THE DEVELOPMENT OF, by Wolfgang F Stolper, 1963 Sept p 168

NIGHT BLINDNESS, by John E Dowling, 1966 Oct p 78 [1053]

NIGHT ON PALOMAR A, by Albert G Ingalls, 1948 Aug p 12

NILE CROCODILE THE, by Anthony C Pooley and Carl Gans, 1976 Apr p 114

NILESTONE AGE MAN ON THE, by Philip E L Smith, 1976 Aug p 30

NINIAN'S THE TREASURE OF ST, by R. L S Bruce Mitford, 1960 Nov p 154

NITROGEN CYCLE THE, by C C Delwiche, 1970 Sept p 136 [1194]

NITROGEN FIXATION, by David R Safrany, 1974 Oct p 64 NITROGEN FIXATION BIOLOGICAL, by Winston J

Brill, 1977 Mar p 68 [922] NITROGEN FIXATION DISCOVERIES IN, by Martin D Kamen, 1953 Mar p 38

NOBEL PRIZES THE, by George W Gray, 1949 Dec p 11

NOBEL PRIZES THE SOCIOLOGY OF THE, by Harnet Zuckerman, 1967 Nov p 25

NOBLE GASES SOLID, by Gerald L Pollack, 1966 Oct p 64

noble gases the chemistry of the, by Henry Selig, John G Malm and Howard H Claassen, 1964 May p 66 NOCTILUCENT CLOUDS, by Robert K. Soberman

1963 June p 50 NOCTURNAL ANIMALS, by H N Southern, 1955

Oct p 88 NOISE, by Leo L Beranek, 1966 Dec p 66 [306]

NOISE. THE CONTROL OF VIBRATION AND, by Theodore P Yin, 1969 Jan p 98

NON CANTORIAN SET THEORY, by Paul J Cohen and Reuben Hersh, 1967 Dec p 104

NON EUCLIDEAN GEOMETRY BEFORE EUCLID, by Imre Toth, 1969 Nov p 87

NON MILITARY USES OF NUCLEAR EXPLOSIVES, by Gerald W Johnson and Harold Brown, 1958 Dec p 29

NONSOCIAL SPEECH SOCIAL AND, by Robert M Krauss and Sam Glucksberg, 1977 Feb p 100 (576)

NONSTANDARD ANALYSIS, by Martin Davis and Reuben Hersh, 1972 June p 78

NONUNIFORM ELECTRIC FIELDS, by Herbert A. Pohl, 1960 Dec p 106

NONVISUAL LIGHT RECEPTION, by Michael Menaker, 1972 Mar p 22 [1243]

NORMAN CASTLES, by Brian Hope Taylor, 1958 Mar p 42

NORTH AMERICA ELEPHANT HUNTING IN, by C Vance Haynes, Jr, 1966 June p 104 NORTH AMERICA HOW MAN CAME TO, by Ralph Solecki, 1951 Jan p 11

NORWAY REACTOR, 1951 Dec p 30 NUCLEAR ATOM THE BIRTH OF THE, BY E. N da C Andrade, 1956 Nov p 93

NUCLEAR CONTROL OF THE CELL, by Helen Gay, 1960 Jan p 126

NUCLEAR EXPLOSIVES NON MILITARY USES OF, by Gerald W Johnson and Harold Brown, 1958 Dec p 29

NUCLEAR FISSION, by R B Leachman, 1965 Aug p 49

NUCLEAR FORCE, THE, by Robert E Marshak, 1960 Mar p 98 [269]

NUCLEAR FUELS THE REPROCESSING OF, by William P Bebbington, 1976 Dec p 30

NUCLEAR PARTICLES THE TRACKS OF, by Herman Yagoda, 1956 May p 40 [252]

NUCLEAR POWER INTERNATIONAL COOPERATION IN, by Donald J Hughes, 1955 Apr p 31 NUCLEAR POWER, NUCLEAR WEAPONS AND

INTERNATIONAL STABILITY, by David J Rose and Richard K Lester, 1978 Apr p 45 [3004] NUCLEAR POWER THE ARRIVAL OF, by John F Hogerton 1968 Feb p 21

NUCLEAR REACTOR AS A RESEARCH INSTRUMENT THE, by Donald J Hughes 1953 Aug p 23

[219] NUCLEAR ROCKETS, by John J Newgard and Myron Levoy, 1959 May 46

NUCLEAR STRATEGY AND NUCLEAR WEAPONS, by Barry E. Carter, 1974 May p 20

NUCLEAR SURFACE. THE TEXTURE OF THE, by Chris D Zafiratos, 1972 Oct p 100 NUCLEAR TRACKS IN SOLIDS, by R L Fleischer

P B Price and R M Walker, 1969 June p 30 NUCLEAR WAR LIMITED, by Sidney D Drell and Frank von Hippel, 1976 Nov p 27

NUCLEAR WEAPONS AND INTERNATIONAL STABILITY NUCLEAR POWER, by David J Rose and Richard K Lester, 1978 Apr p 45 [3004]

217

NUCLEAR WEAPONS NUCLEAR STRATEGY AND, by Barry E. Carter, 1974 May p 20 NUCLEAR WEAPONS THE PROLIFERATION OF, by

William Epstein, 1975 Apr p 18 NUCLEAR FREEZONES, by William Epstein, 1975

Nov p 25 nuclear test ban extending the, by Henry R

Myers, 1972 Jan p 13 [343] NUCLEAR TEST BAN NATIONAL SECURITY AND THE, by Jerome B Wiesner and Herbert F York,

1964 Oct p 27 [319] NUCLEI AND CELL DIFFERENTIATION TRANSPLANTED, by J B Gurdon, 1968 Dec p 24 [1128]

NUCLEI EXOTIC LIGHT, by Joseph Cerny and Arthur M Poskanzer, 1978 June p 60 [3010] NUCLEI ON TRANSPLANTING, by J F Danielli, 1952 Apr p 58

NUCLEI THE SIZE AND SHAPE OF ATOMIC, by
Michel Baranger and Raymond A Sorensen,
1969 Aug p 58

NUCLEIC ACID THE NUCLEOTIDE SEQUENCE OF A, by Robert W. Holley, 1966 Feb. p. 30 [1033] NUCLEIC ACID ULTRAVIOLET RADIATION AND, by

R A Deering, 1962 Dec p 135 [143] NUCLEIC ACIDS, by F H C Crick, 1957 Sept p 188 [54]

NUCLEIC ACIDS AND PROTEINS, by Mahlon B Hoagland, 1959 Dec p 55

NUCLEIC ACIDS, FOREIGN, by Alick Isaacs, 1963
Oct p 46 [166]

NUCLEIC ACIDS HYBRID, by S Spiegelman, 1964 May p 48

NUCLEOTIDE SEQUENCE OF A NUCLEIC ACID THE, by Robert W Holley, 1966 Feb p 30 [1033] NUCLEOTIDE SEQUENCE OF A VIRAL DNA, THE, by John C Fiddes, 1977 Dec p 54 [1374]

NUCLEUS A MODEL OF THE, by Victor F
Weisskopf and E P Rosenbaum, 1955 Dec
p 84 [261]

NUCLEUS THE ATOMIC, by R. E. Peierls, 1959 Jan p. 75

NUCLEUS THE ATOMIC, by Robert Hofstadter, 1956 July p 55 [217]

NUCLEUS THE STRUCTURE OF THE, by Mana G Mayer, 1951 Mar p 22 [228] NUCLEUS TOGETHER? WHAT HOLDS THE, by Hans

A Bethe, 1953 Sept p 58 NUMBER, by Philip J Davis, 1964 Sept p 40 NUMBER CONCEPTS THE ORIGINS OF, by Charles J

Brainerd, 1973 Mar p 101 NUMBER LINE, NEW MODELS OF THE REAL, by Lynn Arthur Steen, 1971 Aug p 92

NUMBERS ELECTRONIC, by Alan Sobel 1973 June p 64

NUMBERS PERFECT, by Constance Reid, 1953 Mar p 84

NUMBERS THE THEORY OF, by Paul S Herwitz, 1951 July p 52

NUMERICAL TAXONOMY, by Robert R Sokal, 1966 Dec p 106 [1059]

NUMISMATICS SCIENTIFIC, by D D Kosambi, 1966 Feb p 102

NUTRIENT CYCLES OF AN ECOSYSTEM THE, by F Herbert Bormann and Gene E. Likens 1970 Oct p 92 [1202]

NUTRITION AND THE BRAIN, by John D Fernstrom and Richard J Wurtman, 1974 Feb p 84 [1291]

NUTRITION THE CYCLES OF PLANT AND ANIMAL, by Jules Janick, Carl H. Noller and Charles L. Rhykerd. 1976 Supt. p. 74

NUTRITION THE REQUIREMENTS OF HUMAN, by Nevin S Scrimshaw and Vernon R. Young, 1976 Sept. p. 50

O

OAKS THE DYING, by George S Avery, Jr., 1957 May p 112

OBELISK, MOVING THE, by Bern Dibner, 1951

June p 58

OBESITY APPETITE AND, by Jean Mayer, 1956
Nov p 108

OBJECT IN THE WORLD OF THE INFANT THE, by T G R Bower, 1971 Oct p 30 [539]

OBJECTS BL LACERTAE, by Michael J. Disney and Philippe Veron, 1977 Aug p 32 [372] OBSERVATIONS OF SATELLITE I, by Fred L.

Whipple and J Allen Hynek, 1957 Dec p 37 OBSERVATORIES IN SPACE, by Arthur I Berman, 1963 Aug p 28

OBSERVING DISLOCATIONS IN CRYSTALS, by W C
Dash and A G Tweet, 1961 Oct p 107

OBSERVING VIOLENCE, THE EFFECTS OF, by Leonard Berkowitz, 1964 Feb p 35 [481]

OBSIDIAN AND THE ORIGINS OF TRADE, by J. E. Dixon, J. R. Cann and Colin Renfrew, 1968 Mar. p. 38

OBSTETRICAL LABOR, by Samuel R M Reynolds, 1950 Mar p 52

OCEAN AND MAN THE, by Warren S Wooster, 1969 Sept p 218 [888]

OCEAN FLOOR, EXPLORING THE, by Hans Pettersson, 1950 Aug p 42

OCEAN FLOOR, MINERALS ON THE, by John L Mero, 1960 Dec p 64

OCEAN FLOOR THE DEEP, by H W Menard, 1969 Sept p 126 [883]

OCEAN FLOOR, THE MAGNETISM OF THE, by Arthur D Raff, 1961 Oct p 146

OCEAN FLOOR THE RIFT IN THE, by Bruce C Heezen, 1960 Oct p 98

OCEAN TECHNOLOGY AND THE, by Willard Bascom, 1969 Sept p 198 [887]

OCEAN THE, 1969 Sept Issue

OCEAN THE, by Roger Revelle, 1969 Sept p 54 [879]

OCEAN THE ANTARCTIC, by V G Kort, 1962 Sept p 113 [860]

OCEAN THE ARCTIC, by P A Gordienko, 1961 May p 88

OCEAN THE ATMOSPHERE AND THE, by R. W Stewart, 1969 Sept p 76

OCEAN THE DISPOSAL OF WASTE IN THE, by Willard Bascom, 1974 Aug p 16

OCEAN THE EVOLUTION OF THE INDIAN, by D P McKenzie and J G Sclater, 1973 May p 62 [908]

OCEAN THE FOOD RESOURCES OF THE, by S J Holt, 1969 Sept p 178 [886]

OCEAN THE MICROSTRUCTURE OF THE, by Michael C Gregg, 1973 Feb p 64 [905]

OCEAN THE PHYSICAL RESOURCES OF THE, by Edward Wenk, Jr., 1969 Sept p 166 [885] OCEAN THE TOP MILLIMETER OF THE, by Ferren MacIntyre 1974 May p 62 [913]

OCEAN WAVES by Willard Bascom, 1959 Aug p 74 [828]

OCEANIC CIRCULATION MODELS OF, by D James Baker Jr., 1970 Jan p 114 [890]

OCEANIC FOOD CHAINS THE ROLE OF WAX IN, by Andrew A Benson and Richard F Lee, 1975 Mar p 76 [1318]

OCEANIC LIFE OF THE ANTARCTIC THE, by Robert Cushman Murphy, 1962 Sept p 186

OCEANICLIFE THE NATURE OF, by John D Isaacs, 1969 Sept p 146 [884]

OCEANIC LITHOSPHERE, THE ORIGIN OF METAL DEPOSITS IN THE, by Enrico Bonatti, 1978 Feb p 54 [929]

OCEANIC RIDGES THE ORIGIN OF THE, by Egon Orowan, 1969 Nov p 102

OCEAN S FLOOR, 1949 Dec p 44

OCEANS PLATE TECTONICS AND THE HISTORY OF LIFE IN THE, by James W Valentine and Eldridge M Moores, 1974 Apr p 80 [912]

OCEANS THE CIRULATION OF THE, by Walter Munk, 1955 Sept p 96 [813]

OCEANS THE ORIGIN OF THE, by Sir Edward Bullard, 1969 Sept p 66 [880]

OCEANS THE STEADY STATE OF THE EARTH S CRUST ATMOSPHERE AND, by Raymond Siever, 1974 June p 72 [914]

OCTOPUS LEARNING IN THE, by Brian B Boycott, 1965 Mar p 42 [1006]

ODOR THE STEREOCHEMICAL THEORY OF, by John E Amoore, James W Johnston, Jr, and Martin Rubin, 1964 Feb p 42

OEDIPUS MYTH THE, by Erich Fromm, 1949 Jan p 22

OFFENSIVE WEAPONS THE LIMITATION OF, by
Herbert Scoville, Jr., 1971 Jan p 15

OFFICE OF NAVAL RESEARCH THE, by John E Pfeiffer, 1949 Feb p 11

oil and Gas from Coal, by Neal P Cochran, 1976 May p 24

OIL FROM SHALE, by H M Thorne, 1952 Feb p 15

OIL MIDDLE EAST, by F Julius Fohs, 1948 Sept p 9

OIL PRODUCTION WORLD, by Andrew R Flower, 1978 Mar p 42 [930]

oil shales tar sands and, by Noel de Nevers, 1966 Feb p 21

OILS ESSENTIAL, by A J Haagen Smit, 1953 Aug p 70

OLD AGE. THE BIOLOGY OF, by Florence Moog, 1948 June p 40

OLD GETTING, by Alexander Leaf, 1973 Sept p 44

OLDEST FOSSILS THE, by Elso S Barghoorn, 1971 May p 30 [895]

OLDEST LAWS THE, by Samuel Noah Kramer, 1953 Jan p 26

OLDEST ROCKS AND THE GROWTH OF CONTINENTS
THE, by Stephen Moorbath, 1977 Mar p 92
[357]

olduval Gorge, by L S B Leakey, 1954 Jan p 66

OLYMPIC GAMES THE ORIGINS OF THE, by Raymond Bloch, 1968 Aug p 78

OMEGA MINUS EXPERIMENT THE, by William B Fowler and Nicholas P Samios, 1964 Oct p 36

OMNIVOROUS CHIMPANZEE, THE, by Geza Teleki, 1973 Jan p 32 [682]

ON TELLING LEFT FROM RIGHT, by Michael C Corballis and Ivan L Beale, 1971 Mar p 96 -[535]

ON THE GENERALIZED THEORY OF THE GRAVITATION, by Albert Einstein, 1950 Apr p 13

OPALS, by P J Darragh, A J Gaskin and J V Sanders, 1976 Apr p 84

OPEN HEART SURGERY, by C Walton Lillehei and Leonard Engel, 1960 Feb p 76

OPERATION ON PRESIDENT MCKINLEY THE, by Selig Adler, 1963 Mar p 118

operations research, by Horace C Levinson and Arthur A Brown, 1951 Mar p 15

OPERATOR REPRESSOR SYSTEM A DNA, by Tom Maniatis and Mark Piashne, 1976 Jan p 64 [1333]

OPIATE RECEPTORS AND INTERNAL OPIATES, by Solomon H. Snyder, 1977 Mar. p. 44 [1354] OPIATES CHANGE BEHAVIOR, HOW, by John R. Nichols. 1965 Feb. p. 80

- OPINION POLLS, PUBLIC, by Rensis Likert, 1948 Dec. p. 7.
- OPINIONS AND SOCIAL PRESSURE, by Solomon E. Asch, 1955 Nov. p. 31. [450]
- OPOSSUM, THE, by Harold C. Reynolds, 1953 June p. 88,
- OPTICAL FIBER, COMMUNICATION BY, by J. S. Cook, 1973 Nov. p. 28.
- OPTICAL INTERFERENCE COATINGS, by Philip Baumeister and Gerald Pincus, 1970 Dec. p. 58.
- OPTICAL MASERS, by Arthur L. Schawlow, 1961 June p. 52. [274]
- OPTICAL MASERS, ADVANCES IN, by Arthur L. Schawlow, 1963 July p. 34. [294]
- OPTICAL PROPERTIES OF MATERIALS, THE, by Ali Javan, 1967 Sept. p. 238.
- OPTICAL PUMPING, by Arnold L. Bloom, 1960 Oct. p. 72.
- OPTICS, FIBER, by Narinder S. Kapany, 1960 Nov. p. 72.
- OPTICS INTEGRATED, by P. K. Tien, 1974 Apr. p. 28.
- ORCHIDS, by Joseph Arditti, 1966 Jan. p. 70. ORDINARY MATTER, by Gerald Feinberg, 1967 May p. 126.
- ORE, THE DIRECT REDUCTION OF IRON, by Jack Robert Miller, 1976 July p. 68.
- OREOPITHECUS: HOMUNCULUS OR MONKEY?, by Loren C. Eiseley, 1956 June p. 91.
- ORES, THE BENEFICIATION OF IRON, by M. M. Fine, 1968 Jan. p. 28.
- ORES, THE ORIGIN OF, by H. G. Bachmann, 1960 June p. 146.
- ORGANIC CHEMICAL REACTIONS, by John D. Roberts, 1957 Nov. p. 117. [85]
- ORGANIC CHEMISTRY IONIZING RADIATION AND, by A. Charlesby, 1959 Sept. p. 180.
- ORGANIC CRYSTALS, ELECTRIC CURRENTS IN, by Martin Pope, 1967 Jan. p. 86.
- ORGANIC LASERS, by Peter Sorokin, 1969 Feb. p. 30.
- ORGANIC MATTER FROM SPACE, by Brian Mason, 1963 Mar. p. 43.
- ORGANIC MATTER IN METEORITES, by James G. Lawless, Clair E. Folsome and Keith A. Kvenvolden, 1972 June p. 38. [902]
- organic molecules, the shapes of, by Joseph B. Lambert, 1970 Jan. p. 58. [331]
- ORGANIZATION OF MEDICAL CARE, THE, by Ernest W. Saward, 1973 Sept. p. 169.
- ORGANIZATIONS, THE USES OF COMPUTERS IN, by Martin Greenberger, 1966 Sept. p. 192.
- "ORGANIZER, THE", by George W. Gray, 1957 Nov. p. 79. [103]
- ORGANS, ARTIFICIAL INTERNAL, by Peter F. Salisbury, 1954 Aug. p. 24.
- ORIGIN AND EVOLUTION OF CITIES, THE, by Gideon Sjoberg, 1965 Sept. p. 54.
- ORIGIN AND EVOLUTION OF THE SOLAR SYSTEM. THE, by A. G. W. Cameron, 1975 Sept. p. 32. ORIGIN OF ATHEROSCLEROSIS, THE, by Earl P.
- Bendîtt, 1977 Feb. p. 74. [1351] ORIGIN OF CITIES, THE, by Robert M. Adams,
- 1960 Sept. p. 153. [606]
- ORIGIN OF CONTINENTS, THE, by Marshall Kay, 1955 Sept. p. 62. [816]
- ORIGIN OF COSMIC RAYS, THE, by Geoffrey Burbidge, 1966 Aug. p. 32. ORIGIN OF DARWINISM, THE, by C. D. Darlington,
- 1959 May p. 60. ORIGIN OF FORM PERCEPTION, THE, by Robert L.
- Fantz, 1961 May p. 66. [459]
- ORIGIN OF GALAXIES, THE, by Martin J. Rees and Joseph Silk, 1970 June p. 26.
- ORIGIN OF GLACIERS, ON THE, by Charles R. Warren, 1952 Aug. p. 57.

- ORIGIN OF GRANITE, THE, by O. Frank Tuttle, 1955 Apr. p. 77.
- ORIGIN OF HURRICANES, THE, by Joanne Starr Malkus, 1957 Aug. p. 33, [847]
- origin of Life, the, by George Wald, 1954 Aug. p. 44. [47]
- ORIGIN OF METAL DEPOSITS IN THE OCEANIC LITHOSPHERE, THE, by Enrico Bonatti, 1978 Feb. p. 54. [929]
- ORIGIN OF METEORITES, THE by S. Fred Singer, 1954 Nov. p. 36.
- ORIGIN OF ORES. THE, by H. G. Bachmann, 1960 June p. 146.
- ORIGIN OF PERSONALITY, THE, by Alexander Thomas, Stella Chess and Herbert G. Birch, 1970 Aug. p. 102. [529]
- ORIGIN OF SOCIETY, THE, by Marshall D. Sahlins, 1960 Sept. p. 76. [602]
- ORIGIN OF SPEECH, THE, by Charles F. Hockett, 1960 Sept. p. 88. [603]
- ORIGIN OF SUBMARINE CANYONS, THE, by Bruce C. Heezen, 1956 Aug. p. 36.
- ORIGIN OF THE ATMOSPHERE, THE, by Helmut E.Landsberg, 1953 Aug. p. 82. [824]
- origin of the automobile engine, the, by Lynwood Bryant, 1967 Mar. p. 102.
- ORIGIN OF THE EARTH, THE, by Harold C. Urey, 1952 Oct. p. 53. [833]
- ORIGIN OF THE ELEMENTS, THE, by William A. Fowler, 1956 Sept. p. 82.
- ORIGIN OF THE ICE, by George Gamow, 1948 Oct. p. 40.
- ORIGIN OF THE OCEANIC RIDGES. THE, by Egon Orowan, 1969 Nov. p. 102.
- ORIGIN OF THE OCEANS, THE, by Sir Edward Bullard, 1969 Sept. p. 66. [880]
- origins of alienation, the, by Urie Bronfenbrenner, 1974 Aug. p. 53. [561]
- ORIGINS OF FACIAL EXPRESSIONS. THE, by Richard J. Andrew, 1965 Oct. p. 88. [627]
- ORIGINS OF FEEDBACK CONTROL, THE, by Otto Mayr, 1970 Oct. p. 110.
- ORIGINS OF HYPODERMIC MEDICATION, THE, by Norman Howard-Jones, 1971 Jan. p. 96.
- ORIGINS OF NERVE-CELL SPECIFICITY, THE, by Marcus Jacobson and R. Kevin Hunt, 1973 Feb. p. 26. [1265]
- origins of new world civilization, the, by Richard S. MacNeish, 1964 Nov. p. 29. [625] ORIGINS OF NUMBER CONCEPTS, THE, by Charles J. Brainerd, 1973 Mar. p. 101.
- ORIGINS OF THE BINARY CODE, by F. G. Heath, 1972 Aug. p. 76.
- ORIGINS OF THE COPERNICAN REVOLUTION. THE, by Jerome R. Ravetz, 1966 Oct. p. 88. origins of the lathe, the, by Robert S.
- Woodbury, 1963 Apr. p. 132.
- origins of the olympic games. The, by Raymond Bloch, 1968 Aug. p. 78.
- ORIGINS OF THE STEAM ENGINE, THE, by Eugene S. Ferguson, 1964 Jan. p. 98.
- ORIGINS OF US SCIENTISTS, THE, by H. B. Goodrich, R. H. Knapp and George A. W. Boehm, 1951 July p. 15.
- origns, population genetics and Human, by Robert B. Eckhardt, 1972 Jan. p. 94. [676]
- orion nebula. The age of the, by Peier O. Vandervoort, 1965 Feb. p. 90.
- ORTHODOX AND UNORTHODOX METHODS OF MEETING WORLD FOOD NEEDS, by N. W. Pine, 1967 Feb. p. 27. [1068]
- ORYX, THE ELAND AND THE, by C. R. Taylor, 1969 Jan. p. 88.
- outer Planets, the, by Donald M. Hunten, 1975 Sept. p. 130.
- OUTPOST. AN ASSYRIAN TRADING, by Tahsin Özguc, 1963 Feb. p. 96.

- OVERTHROW OF PARITY, THE, by Philip Morrison, 1957 Apr. p. 45.
- OXIDATION, BIOLOGICAL, by David E. Green, 1958 July p. 56.
- OXYGEN CYCLE, THE, by Presson Cloud and Aharon Gibor, 1970 Sept. p. 110. [1192] OXYGEN IN STEELMAKING, by Joseph K. Stone, 1968 Apr. p. 24.
- OYSTERS, by Pieter Korringa, 1953 Nov. p. 86.

- PACEMAKER, THE HEART'S, by E. F. Adolph, 1967 Mar. p. 32. [1067]
- PACIFIC FLOOR, FRACTURES IN THE, by Henry W. Menard, 1955 July p. 36.
- PACIFIC FLOOR, THE, by Robert S. Dietz, 1952 Apr. p. 19.
- PACIFIC RISE, THE EAST, by Henry W. Menaid, 1961 Dec. p. 52.
- PACIFIC, THE EVOLUTION OF THE, by Brice C. Heezen and Ian D. MacGregor, 1973 Nov. p. 102. [911]
- PACIFIC. THE TRENCHES OF THE, by Robert L. Fisher and Roger Revelle, 1955 Nov. p. 36.
- PAIN. THE PERCEPTION OF, by Ronald Melzack, 1961 Feb. p. 41. [457]
- PAIN' WHAT IS, by W. K. Livingston, 1953 Mar. p. 59.
- PALEOBIOCHEMISTRY, by Philip H. Abelson, 1956
- July p. 83. [101] PALEO-INDIAN BISON KILL, A, by Joe Ben Wheat,
- 1967 Jan. p. 44. PALEOLITHIC ART. THE EVOLUTION OF, by André Leroi-Gourhan, 1968 Feb. p. 58.
- PALEOLITHIC CAMP AT NICE, A, by Henry de
- Lumley, 1969 May p. 42. PALEOLITHIC FLINT TOOLS, THE FUNCTIONS OF, by Lawrence H. Keeley, 1977 Nov. p. 108. [700]
- PALEOLITHIC SETTLEMENTS OF THE EUROPEAN PLAIN, THE FINAL, by Romuald Schild, 1976 Feb. p. 88.
- PALEOLITHIC SITE IN AFRICA, ISMIILA A, by F. Clark Howell, 1961 Oct. p. 118.
- PALEONEUROLOGY AND THE EVOLUTION OF MIND, by Harry J. Jerison, 1976 Jan. p. 90. [568] PALEONTOLOGICAL CLOCKS, CORALS AS, by S. K.
- Runcorn, 1966 Oct. p. 26. [871] PALOMAR, A NIGHT ON, by Albert G. Ingalls, 1948
- Aug. p. 12. PALOMAR, FIVE HISTORIC PHOTOGRAPHS FROM, by
- Edwin P. Hubble, 1949 Nov. p. 32. PALOMAR, PLANETS FROM, by Alice Beach, 1953 Feb. p. 17.
- PALOMAR, THE UNIVERSE FROM, by George W. Gray, 1952 Feb. p. 43.
- PANGAEA, THE BREAKUP OF, by Robert S. Dieiz and John C. Holden, 1970 Oct. p. 30. [892] PAPYRUS. THE RHIND, by James R. Newman,
- 1952 Aug. p. 24. PARABOLIC TRAJECTORY, GALILEO'S DISCOVERY OF THE, by Stillman Drake and James MacLachlan, 1975 Mar. p. 102.
- PARADOX, by W. V. Quine, 1962 Apr. p. 84. PARADOX, ESCAPE FROM, by Anatol Rapoport,
- 1967 July p. 50. PARADOX IN STATISTICS STEIN'S, by Bradley Efron
- and Carl Morris, 1977 May p. 119. [363] PARADOX, THE CLOCK, by J. Bronowski, 1963
- Feb. p. 134. PARADOXES OF THE MISSISSIPPI, by Gerard H. Matthes, 1951 Apr. p. 18. [836]
- PARALYTHIC PLAGUE, THE, by David Bodian, 1950 Aug. p. 22

- PARASITE THE CLOCK OF THE MALARIA, by Frank Hawking, 1970 June p 123
- PARASITIC BIRDS MIMICRY IN, by Jurgen Nicolai, 1974 Oct p 92
- PARATHYROID HORMONE, THE, by Howard Rasmussen, 1961 Apr p 56 [86]
- PARE AMBROISE, by Sir Geoffrey Keynes, 1956 Jan p 90
- PARENTAGE AND BLOOD GROUPS, by Alexander S Wiener, 1954 July p 78
- PARITY THE OVERTHROW OF, by Philip Mortison, 1957 Apr p 45
- PARTICLE ACCELERATORS, by Robert R Wilson 1958 Mar p 64 [251]
- PARTICLE DETECTORS SEMICONDUCTOR, by
 Olexa Myron Bilaniuk, 1962 Oct p 78 [284]
 PARTICLE INTERACTION LIMITED THEORIES OF
- PARTICLE INTERACTION UNIFIED THEORIES OF ELEMENTARY, by Steven Weinberg 1974 July p 50
- PARTICLE STORAGE RINGS, by Gerard K. O'Neill, 1966 Nov p. 107 [323]
- PARTICLES AND COSMIC RAYS SOLAR, by Kinsey A Anderson, 1960 June p 64
- PARTICLES AND FIELDS INTERPLANETARY by James A Van Allen, 1975 Sept p 160
- PARTICLES, DUAL RESONANCE MODELS OF ELEMENTARY, by John H Schwarz, 1975 Feb D 61
- PARTICLES ELECTRON POSITRON ANNIHILATION AND THE NEW, by Sidney D Drell, 1975 June p 50
- PARTICLES ELEMENTARY, by Murray Gell-Mann and E P Rosenbaum, 1957 July p 72 [213] PARTICLES FINE, by Clyde Orr, Jr., 1950 Dec
- p 50
 PARTICLES LIGHT SCATTERED BY, by Victor K La
 Mer and Milton Kerker, 1953 Feb p 69
- PARTICLES OF WEAR, THE, by Douglas Scott, William W Seifert and Vernon C Westcott, 1974 May p 88
- PARTICLES RESONANCE, by R D Hill 1963
 Jan 38 [290]
- PARTICLES STRONGLY INTERACTING by Geoffrey F Chew, Murray Gell-Mann and Arthur H Rosenfeld 1964 Feb p 74 [296]
- PARTICLES THAT GO FASTER THAN LIGHT, by Gerald Feinberg, 1970 Feb p 68
- PARTICLES THE MULTIPLICITY OF, by Robert E Marshak, 1952 Jan p 22
- PARTICLES THE SEARCH FOR NEW FAMILIES OF ELEMENTARY, by David B Cline, Alfred K Mann and Carlo Rubbia 1976 Jan p 44
- PARTICLES THE TRACKS OF NUCLEAR, by Herman Yagoda 1956 May p 40 [252]
 PARTICLES THE ULTIMATE, by George W Gray,
- 1948 June p 26
 PARTICLES WITH CHARM FUNDAMENTAL, by Roy
- F Schwitters 1977 Oct p 56 [388]
 PARTNER OF THE GENES by T M Sonneborn
- 1950 Nov p 30 [39]

 PASSINE COOLING SYSTEMS IN IRANIAN

 ARCHITECTURE, by Mehdi N Bahadori 1978

 Feb p 144 [705]
- PATENT SYSTEM THE US, by J Herbert Hollomon 1967 June p 19
- PATH OF CARBON IN PHOTOSYNTHESIS THE by J A Bassham 1962 June p 88
- PATHOLOGY OF BOREDOM THE, by Woodburn Heron 1957 Jan p 52 [430]
- JATHOLOGY POPULATION DENSITY AND SOCIAL by John B Calhoun 1962 Feb p 139 [506] JATHWAYS IN THE BRAIN by Lennart Heimer.
- 1971 July p 48 [1227]

 I VIII NT COMMUNICATION DOCTOR, by Barbara
 M Korsch and Vida Francis Negrete 1972

 Aug p 66

- PATTERN RECOGNITION ADVANCES IN, by Richard G Casey and George Nagy, 1971 Apr p 56 PATTERN RECOGNITION BY MACHINE, by Oliver G Selfridge and Ulric Neisser, 1960 Aug p 60
- PATTERNS MOIRÉ, by Gerald Oster and Yasunori Nishijima, 1963 May p 54
- PATTERNS OF DREAMING, by Nathaniel Kleitman, 1960 Nov p 82 [460]
- PAULING AND BEADLE, by George W Gray, 1949 May p 16
- PAVLOV, by Jerzy Konorski, 1949 Sept p 44 PEASANT MARKETS, by Sidney W Mintz, 1960 Aug p 112 [647]
- PEAT BOG HISTORY IN A, by Thomas G Bibby, 1953 Oct p 84
- PECULIAR DISTRIBUTION OF FIRST DIGITS THE, by Ralph A Raimi, 1969 Dec p 109
- PECULIAR GALAXIES, by Geoffrey and E Margaret Burbidge, 1961 Feb p 50
- PEER REVIEW AND THE SUPPORT OF SCIENCE, by Stephen Cole, Leonard C Rubin and Jonathan R Cole, 1977 Oct p 34 [698]
- PELAGICTAR, by James N Butler, 1975 June p 90
- PELLA CAPITAL OF ANCIENT MACEDONIA, by Ch J Makaronas, 1966 Dec p 98
- PENGUINS, by William J L Sladen, 1957 Dec p 44
- PENGUINS THE NAVIGATION OF, by John T Emlen and Richard L Penney, 1966 Oct p 104
- PENICILLINS NEW, by Anthony H Rose, 1961 Mar p 66
- PEOPLE IN GROUPS, by David B Hertz and Sandra Lloyd Lesser, 1951 Feb p 26
- PEOPLE INTERACT IN CONFERENCES How, by Robert F Bales, 1955 Mar p 31
- PEOPLE OF YORK 1538 1812, THE, by Ursula M Cowgill, 1970 Jan p 104
- PEOPLES OF PINE LAWN VALLEY THE, by Paul S Martin, 1951 July p 46
- PEOPLES THE PERSONALITY OF, by Ralph Linton, 1949 Aug p 11
- PERCEPTION AFTEREFFECTS IN, by W C H
 Prentice, 1962 Jan p 44
- PERCEPTION AND CULTURE, PICTORIAL, by Jan B Deregowski, 1972 Nov p 82 [551]
- PERCEPTION AND PERSONALITY VISUAL, by Warren J Wittreich, 1959 Apr p 56 [438]
- PERCEPTION EXPERIMENTS IN, by W H Ittelson and F P Kilpatrick 1951 Aug p 50 [405] PERCEPTION EYE MOVEMENTS AND VISUAL, by
- David Noton and Lawrence Stark, 1971 June p 34 [537]
- PERCEPTION IN THE CHICK. SPACE, by Eckhard H Hess 1956 July p 71
- PERCEPTION MULTISTABILITY IN by Fred Attneave 1971 Dec p 62 [540]
- perception Negative Aftereffects in Visual, by Olga Eizner Favreau and Michael C Corballis 1976 Dec p 42 [574]
- PERCEPTION OF DISORIENTED FIGURES THE, by Irvin Rock, 1974 Jan p 78 [557]
- PERCEPTION OF MOTION THE, by Hans Wallach, 1959 July p 56 [409]
- PERCEPTION OF MOVING TARGETS THE by Robert Sekuler and Eugene Levinson 1977 Jan p 60 15751
- PERCEPTION OF NEUTRAL COLORS THE, by Hans Wallach, 1963 Jan p 107 [474]
- PLRCEPTION OF PAIN THE, by Ronald Melzack, 1961 Feb p 41 [457]
- Donald E Broadbent, 1962 Apr p 143 [467]
 LERCLPTION OF SURFNCE COLOR, THE, by Jacob
 Beck, 1975 Aug p 62 [565]

- PERCEPTION OF TEXTURE. EXPERIMENTS IN THE VISUAL, by Bela Julesz, 1975 Apr p 34 [563] PERCEPTION OF THE UPRIGHT THE, by Herman A Witkin, 1959 Feb p 50 [410]
- PERCEPTION OF TRANSPARENCY THE, by Fabio Metelli, 1974 Apr p 90 [559]
- PERCEPTION SHADOWS AND DEPTH, by Eckhard H Hess, 1961 Mar p 138
- PERCEPTION TEXTURE AND VISUAL, by Bela Julesz, 1965 Feb p 38 [318]
- PERCEPTION THE ADJACENY PRINCIPLE IN VISUAL, by Walter C. Gogel, 1978 May p. 126 [582] PERCEPTION THE ORIGIN OF FORM, by Robert L.
- Fantz, 1961 May p 66 [459] PERCEPTION THE RESOURCES OF BINOCULAR, by John Ross, 1976 Mar p 80 [569]
- PERCEPTION VISUAL MOTION, by Gunnar Johansson, 1975 June p 76 [564]
- PERFECT NUMBERS by Constance Reid, 1953
 Mar p 84
- PERFORMANCE CRITERIA IN BUILDING, by James R Wright, 1971 Mar p 16 [341]
- PERKIN SIR WILLIAM, by John Read, 1957 Feb p 110
- PERMANENT MAGNETS, by Joseph J Becker, 1970 Dec p 92
- PERPETUAL MOTION MACHINES, by Stanley W. Angrist, 1968 Jan p 114
- PERSIAN GULF A FORGOTTEN CIVILIZATION OF THE, by P V Glob and T G Bibby, 1960 Oct p 62
- PERSONAL COMPUTER MICROELECTRONICS AND THE, by Alan C Kay, 1977 Sept p 230 [384] PERSONALITY OF PEOPLES THE, by Ralph Linton,
- 1949 Aug p 11
 PERSONALITY THE ORIGIN OF, by Alexander
 Thomas, Stella Chess and Herbert G Birch,
 1970 Aug p 102 [529]
- PERSONALITY VISUAL PERCEPTION AND, by
 Warren J Wittreich, 1959 Apr p 56 [438]
 PERU CURRENT THE, by Gerald S Posner, 1954
- Mar p 66
 PERU EARLY MAN IN, by Edward P Lanning,
 1965 Oct p 68
- PERU THE LOST CITIES OF, by Richard P Schaedel, 1951 Aug p 18
- PERUVIAN VALLEY THE HISTORY OF A by James
 A Ford 1954 Aug p. 28
- A Ford, 1954 Aug p 28
 PESTICIDES AND THE REPRODUCTION OF BIRDS, by
- David B Peakall, 1970 Apr p 72 [1174] PESTICIDES THIRD GENERATION, by Carroll M Williams, 1967 July p 13 [1078]
- PETRIFIED FORESTS OF YELLOWSTONE PARK THE, by Erling Dorf, 1964 Apr p 106
- PETROGLYPHS OF SIBERIA THE, by A P Okladnikov, 1969 Aug p 74 [649]
- PETROLEUM DRILLING FOR, by Sullivan S Marsden, Jr, 1958 Nov p 99
- PETROLEUM PROTEIN FROM, by Alfred Champagnat, 1965 Oct p 13 [1020]
- PETROLEUM THE SECONDARY RECOVERY OF,, by
 Noel de Nevers, 1965 July p 34
- PH, by Duncan A MacInnes, 1951 Jan 40 PHALAROPE, THE, by E Otto Hohn, 1969 June p 104 [1146]
- PHARAOHS THE TOMBS OF THE FIRST, by Walter B Emery 1957 July p 106
- PHASES IN CELL DIFFERENTIATION, by Norman K Wessells and William J Rutter, 1969 Mar p 36 [1136]
- PHENOCOPIES, by Richard B Goldschmidt, 1949 Oct p 46
- PHEROMONES, by Edward O Wilson, 1963 May p 100 [157]
- PHILIPS AIR ENGINE THE, by Leonard Engel, 1948
 July p 52

- PHOBOS AND DEIMOS, by Joseph Veverka, 1977 Feb p 30 [352]
- PHOSPHENES, by Gerald Oster, 1970 Feb p 82 PHOSPHORS, by J S Prener and D B Sullenger, 1954 Oct p 62 [237]
- PHOTOCELL MEASURING STARLIGHT BY, by Joel Stebbins, 1952 Mar p 56
- PHOTOGRAPH MAXWELL'S COLOR, by Ralph M Evans, 1961 Nov p 118
- PHOTOGRAPHIC DEVELOPMENT, by T H James, 1952 Nov p 30
- PHOTOGRAPHIC LENS THE, by William H Price, 1976 Aug p 72
- PHOTOGRAPHS FROM MARINER IV THE, by Robert B Leighton, 1966 Apr p 54
- PHOTOGRAPHY BY LASER, by Emmett N Leith and Juris Upatnieks, 1965 June p 24
- PHOTOGRAPHY OF STARS ELECTRONIC, by William A Baum, 1956 Mar p 81
- PHOTOLYSIS FLASH, by Leonard I Grossweiner, 1960 May p 134
- PHOTON ECHOES, by Sven R Hartmann, 1968 Apr p 32
- PHOTON THE MASS OF THE, by Alfred Scharff Goldhaber and Michael Martin Nieto, 1976 May p 86
- PHOTONS AS HADRONS, by Frederick Murphy and David E Yount, 1971 July p 94
- PHOTOSYNTHESIS, by Eugene I Rabinowitch, 1948 Aug p 24
- PHOTOSYNTHESIS HIGH EFFICIENCY, by Olle Bjorkman and Joseph Berry, 1973 Oct p 80 [1281]
- PHOTOSYNTHESIS PROGRESS IN, by Eugene I Rabinowitch, 1953 Nov p 80
- PHOTOSYNTHESIS THE ABSORPTION OF LIGHT IN, by Govindjee and Rajni Govindjee, 1974 Dec p 68 [1310]
- PHOTOSYNTHESIS THE MECHANISM OF, by R P Levine, 1969 Dec p 58 [1163]
- PHOTOSYNTHESIS THE PATH OF CARBON IN, by J A Bassham, 1962 June p 88
- PHOTOSYNTHESIS THE ROLE OF LIGHT IN, by Daniel I Arnon, 1960 Nov p 104
- PHOTOSYNTHESIS THE ROLE OF CHLOROPHYLL IN, by Eugene I Rabinowitch and Govindjee, 1965 July p 74 [1016]
- PHOTOVOLTAIC GENERATION OF ELECTRICITY THE, by Bruce Chalmers, 1976 Oct p 34
- PHYSICAL CONSTANTS THE FUNDAMENTAL, by Barry N Taylor, Donald N Langenberg and William H Parker, 1970 Oct p 62 [337]
- PHYSICAL RESOURCES OF THE OCEAN THE, by
 Edward Wenk, Jr., 1969 Sept p 166 [885]
- PHYSICAL SCIENCES MATHEMATICS IN THE, by Freeman J Dyson, 1964 Sept p 128 PHYSICIST HOW NICE TO BEA, songs by Arthur
- Roberts, 1948 Sept p 50 PHYSICIST SHAKESPEARE THE, by Banesh
- Hoffmann, 1951 Apr p 52 PHYSICIST'S PICTURE OF NATURE THE EVOLUTION OF THE, by P A M Dirac, 1963 May p 45
- PHYSICS, by Max Born, 1950 Sept p 28
 PHYSICS AND MUSIC, by Frederick A Saunders,
- 1948 July p 32
 PHYSICS CRYSTALS AND THE FUTURE OF, by
 Philippe Le Corbeiller, 1953 Jan p 50
 PHYSICS IN THE USSR, by E P Rosenbaum,
- 1956 Aug p 29
 PHYSICS INNOVATION IN, by Freeman J Dyson,
- 1958 Sept p 74
 PHYSICS JOCULAR, by O R Frisch
 Anonymous and H B G Casimir, 1956 Mar
- p 93
 PHYSICS, LOW TEMPERATURE, by Harry M Davis,
 1949 June p 30 [206]

- PHYSICS OF BRASSLS THE, by Arthur H Benade, 1973 July p 24
- PHYSICS OF THE BOWED STRING THE, by John C Schelleng, 1974 Jan p 87
- PHYSICS OF THE PIANO THE, by E Donnell Blackham, 1965 Dec p 88
- PHYSICS OF VIOLINS THE, by Carleen Maley Hutchins, 1962 Nov p 78
- PHYSICS OF VIRUSES THE, by Ernest C Pollard, 1954 Dec p 62 [32]
- PHYSICS OF WOOD WINDS THE, by Arthur H Benade, 1960 Oct p 144
- PHYSICS SUPERGRAVITY AND THE UNIFICATION OF THE LAWS OF, by Daniel Z Freedman and Peter van Nieuwenhuizen, 1978 Feb p 126 13971
- PHYSICS THE CHILD AND MODERN, by Jean Piaget, 1957 Mar p 46
- PHYSICS THE CONSERVATION LAWS OF, by Gerald Feinberg and Maurice Goldhaber, 1963 Oct p 36
- PHYSICS THE TEACHING OF ELEMENTARY, by
 Walter C Michels, 1958 Apr p 56 [229]
 PHYSICS VIOLATIONS OF SYMMETRY IN, by Eugene
 P Wigner, 1965 Dec p 28 [301]
- PHYSIOLOGICAL EFFECTS OF ACCELERATION THE, by Terence A Rogers, 1962 Feb p 60 PHYSIOLOGICAL TREMOR, by Olof Lippold, 1971 Mar p 65 [1217]
- PHYSIOLOGY, by E D Adrian, 1950 Sept p 71 PHYSIOLOGY OF AGING THE, by Nathan W Shock, 1962 Jan p 100
- PHYSIOLOGY OF EXERCISE, THE, by Carleton B Chapman and Jere H Mitchell, 1965 May p 88 [1011]
- PHYSIOLOGY OF FEAR AND ANGER THE, by Daniel H Funkenstein, 1955 May p 74 [428]
- PHYSIOLOGY OF HIGH ALTITUDE, THE, by Raymond J Hock, 1970 Feb p 52 [1168] PHYSIOLOGY OF HUMAN REPRODUCTION THE, by
- Sheldon J Segal, 1974 Sept p 52 PHYSIOLOGY OF IMAGINATION THE, by John C
- Eccles, 1958 Sept p 135 [65]
 PHYSIOLOGY OF MEDITATION THE, by Robert
 Keith Wallace and Herbert Benson, 1972 Feb
 p 84 [1242]
- PHYSIOLOGY OF STARVATION THE, by Vernon R
 Young and Nevin S Scrimshaw, 1971 Oct
- p 14 [1232] PHYSIOLOGY OF THE CAMEL, THE, by Knut Schmidt-Nielsen, 1959 Dec p 140 [1096] PHYSIOLOGY OF THE GIRAFFE, THE, by James V
- Warren, 1974 Nov p 96 [1307]
 PHYSIOLOGY OF THE HOUSE MOUSE, THE, by Damiel
 S Fertig and Vaughan W Edmonds, 1969
 Oct p 103 [1159]
- PHYSIOLOGY OF WHALES THE, by Cecil K Drinker, 1949 July p 52
- PIANO THE PHYSICS OF THE, by E Donnell
 Rlackham 1965 Dec. p. 88
- Blackham 1965 Dec p 88
 PICTORIAL PERCEPTION AND CULTURE by Jan B
 Deregowski, 1972 Nov p 82 [551]
- PIDGIN LANGUAGES, by Robert A Hall, Jr, 1959 Feb p 124
- PIGEON HOMING THE MYSTERY OF, by William T Keeton 1974 Dec p 96 [1311]
- PIGMENT COLOR VISION THREE, by Edward F MacNichol, Jr., 1964 Dec p 48 [197] PIGMENTS AND COLOR BLINDNESS VISUAL, by W
- A H Rushton, 1975 Mar p 64 [1317]
 PIGMENTS, BLOOD, by H Munro Fox, 1950 Mar
 p 20
- PIGMENTS, FLOWER, by Sarah Clevenger, 1964
 June p 84 [186]
- PIGMENTS IN MAN VISUAL, by W. A. H. Rushion. 1962 Nov p. 120 [139]

- PIGS IN THE LABORATORY, by Leo Bustad, 1966
 June p 94 [1045]
- PINE LAWN VALLEY THE PEOPLES OF, by Paul S Martin, 1951 July p 46
- PINE, WHITE, by Donald Culross Peattie, 1948

 June p 48
- PINEAL GLAND THE, by Richard J Wurtman and Julius Axelrod, 1965 July p 50 [1015]
- PINES THE GENETIC IMPROVEMENT OF SOUTHERN, by Bruce J Zobel, 1971 Nov p 94
- PINOCYTOSIS, by Ronald C Rustad, 1961 Apr p 120
- PIONEERS IN THE THEORY OF HEAT, by I Bernard Cohen, 1954 Sept p 60
- PIONS, by Robert E Marshak, 1957 Jan p 84 [226]
- PIPE, THE HEAT, by G Yale Eastman, 1968 May p 38
- PIPELINES, by E J Jensen and H S Ellis 1967 Jan p 62
- PITUITARY THE, by Choh Hao Li, 1950 Oct p 18
- PLACEBOS, by Louis Lasagna, 1955 Aug p 68 PLACEBOS THE ETHICS OF GIVING, by Sissela Bok, 1974 Nov p 17
- PLACE LEARNING, by Henry Gleitman, 1963 Oct p 116 [479]
- PLAGUE, THE PARALYTIC, by David Bodian, 1950 Aug p 22
- PLAGUE, THE RABBIT, by Frank Fenner, 1954 Feb p 30
- PLAGUE TOXIN, by Solomon Kadis, Thomas C Montie and Samuel J Ajl, 1969 Mar p 92
- PLAIN THE FINAL PALEOLITHIC SETTLEMENTS OF THE EUROPEAN, by Romuald Schild, 1976 Feb p 88
- PLANET EARTH THE, 1955 Sept issue PLANETARY NEBULAE, by Martha and William Liller, 1963 Apr p 60
- PLANETS FROM PALOMAR, by Alice Beach, 1953 Feb p 17
- PLANETS NAVIGATION BETWEEN THE, by William G Melbourne, 1976 June p 58
- PLANETS RADAR OBSERVATIONS OF THE, by Irwin
 I Shapiro, 1968 July p 28
- PLANETS THE OUTER, by Donald M Hunten, 1975 Sept p 130
- PLANETS THE TEMPERATURES OF THE, by Cornell H Mayer, 1961 May 58
- PLANKTON AND MAN WHALES, by Willis E Pequegnat, 1958 Jan p 84 [853]
- PLANNING OF A MAYA CEREMONIAL CENTER THE, by Norman Hammond, 1972 May p 82
- PLANNING OF DEVELOPMENT THE, by Edward S Mason, 1963 Sept p 235
- PLANT AN INSECT AND A, by Stanley D Beck, 1958 May 87
- PLANT AND ANIMAL NUTRITION THE CYCLES OF by Jules Janick, Carl H Noller and Charles L Rhykerd, 1976 Sept p 74
- PLANT CANCER, by Armin C Braun, 1952 June p 66
- PLANT CELLS THE CONTROL OF GROWTH IN by F C Steward, 1963 Oct p 104
- PLANT CELLS THE WALLS OF GROWING, by Peter Albersheim, 1975 Apr p 80 [1320]
- PLANT DEVELOPMENT LIGHT AND, by W. L. Butler and Robert J. Downs, 1960 Dec. p. 56 [107] PLANT DISEASES ANTIBIOTICS AGAINST, by David
- Pramer, 1955 June p 82 PLANT GALLS INSECTS AND, by William Hovanitz,
- 1956 Nov p 151
 PLANT GROWTH SUBSTANCES, by Frank B
 Salisbury, 1957 Apr p 125 [110]
- PLANT GROWTH THE CONTROL OF, by Johannes van Overbeek, 1968 July p 75 [111]

- PLANT HORMONES, by Victor Schocken, 1949 May p. 40.
- PLANT MOVEMENTS, by Victor A. Greulach, 1955 Feb. p. 100.
- PLANT TISSUE CULTURES, by Philip R. White, 1950 Mar. p. 48.
- PLANTS, A MECHANISM OF DISEASE RESISTANCE IN, by Gary A. Strobel, 1975 Jan. p. 80. [1313]
- PLANTS AND ANIMALS THAT NOURISH MAN, THE, by Jack R. Harlan, 1976 Sept. p. 88.
- PLANTS, ARTIFICIAL LIVING, by Edward F. Moore, 1956 Oct. p. 118.
- PLANTS, BUTTERFLIES AND, by Paul R. Ehrlich and Peter H. Raven, 1967 June p. 104. [1076]
- PLANTS. CARNIVOROUS, by Yolande Heslop-Harrison, 1978 Feb. p. 104. [1382]
- PLANTS, CHEMICAL WARFARE AMONG THE, by James Bonner, 1949 Mar. p. 48.
- PLANTS, ELECTRICITY IN, by Bruce I. H. Scott, 1962 Oct. p. 107. [136]
- Plants, Heat transfer in, by David M. Gates. 1965 Dec. p. 76. [1029]
- PLANTS, INDUCED MUTATIONS IN, by Björn Sigurbjörnsson, 1971 Jan. p. 86. [1210]
- PLANTS OF KRAKATOA, THE, by F. W. Went, 1949 Sept. p. 52.
- PLANTS. THE CIRCULATORY SYSTEM OF, by Susann and Orlin Biddulph, 1959 Feb. p. 44. [53]
- PLANTS, THE ECOLOGY OF DESERT, by Frits W. Went, 1955 Apr. p. 68. [114]
- PLANTS, THE RISE OF WATER IN, by Victor A. Greulach, 1952 Oct. p. 78.
- PLANTS WITHOUT CELLULOSE, by R. D. Preston, 1968 June p. 102. [1110]
- PLASMA CLOUDS IN SPACE, ARTIFICAL, by Gerhard Haerendel and Reimar Lüst, 1968 Nov. p. 80. PLASMA JET. THE, by Gabriel M. Giannini, 1957 Aug. p. 80.
- PLASMAS IN SOLIDS, by Raymond Bowers, 1963 Nov. p. 46.
- PLASMOIDS, by Winston H. Bostick, 1957 Oct. p. 87.
- PLASTIC LAYER OF THE EARTH'S MANTLE, THE, by Don L. Anderson, 1962 July p. 52. [855]
- PLASTICITY IN SENSORY-MOTOR SYSTEMS, by Richard Held, 1965 Nov. p. 84. [494]
- PLASTICS, HIGH-TEMPERATURE, by A. H. Frazer, 1969 July p. 96.
- PLATE TECTONICS, by John F. Dewey, 1972 May p. 56. [900]
- PLATE TECTONICS AND MINERAL RESOURCES, by Peter A. Rona, 1973 July p. 86. [909]
- PLATE TECTONICS AND THE HISTORY OF LIFE IN THE OCEANS, by James W. Valentine and Eldridge M. Moores, 1974 Apr. p. 80, [912]
- PLATELETS, BLOOD, by Marjorie B. Zucker, 1961 Feb. p. 58.
- PLAYING POSSUM, by Carl G. Hartman, 1950 Jan. p. 52.
- PLEASURE CENTERS IN THE BRAIN, by James Olds, 1956 Oct. p. 105. [30]
- PLEIADES, THE, by D. Nelson Limber, 1962 Nov. p. 58. [285]
- PLURALISTIC ECONOMY OF THE U.S. THE, by Eli Ginzberg, 1976 Dec. p. 25.
- PNEUMATIC BUILDINGS, by Murray Kamrass, 1956 June p. 131.
- POETIC RESPONSES TO THE COPERNICAN
 REVOLUTION, by Margaret M. Byard, 1977
 June p. 120, [367]
- POINT FOUR, by Stephen Raushenbush, 1950 Mar. p. 16.
- POISONING, LEAD, by J. Julian Chisolm, Jr., 1971 Feb. p. 15, 112111
- POISONOUS MUSHROOMS, THE MOST, by Walter Litten, 1975 Mar. p. 90.

- POISONOUS TIDES, by S. H. Hutner and John McLaughlin, 1958 Aug. p. 92.
- POISONS, by Elijah Adams, 1959 Nov. p. 76. POISONS, RADIOACTIVE, by Jack Schubert, 1955 Aug. p. 34.
- POKER, RED DOG, BLACKJACK AND, by Richard Bellman and David Blackwell, 1951 Jan. p. 44.
- POLAND, VISIT TO, by Leopold Infeld, 1949 Dec. p. 40.
- POLAR BEARS, THE MIGRATION OF, by Vagn Flyger and Marjorie R. Townsend, 1968 Feb. p. 108. [1102]
- POLARIZED ACCELERATOR TARGETS, by Gilbert Shapiro, 1966 July p. 68.
- POLARIZED LIGHT AND ANIMAL NAVIGATION, by Talbot H. Waterman, 1955 July p. 88.
- POLARIZED-LIGHT NAVIGATION BY INSECTS, by Rüdiger Wehner, 1976 July p. 106. [1342]
- POLIO, GAMMA GLOBULIN IN, by William McD. Hammon, 1953 July p. 25.
- POLIO RESEARCH. A NEW ERA IN, by Joseph L. Melnick, 1952 Nov. p. 26.
- POLIOMYELITIS. VACCINES FOR, by Jonas E. Salk, 1955 Apr. p. 42.
- POLIOVIRUS, THE MOLECULAR BIOLOGY OF, by Deborah H. Spector and David Baltimore, 1975 May p. 24.
- POLISHING, by Ernest Rabinowicz, 1968 June p. 91.
- POLITICAL FACTORS IN ECONOMIC ASSISTANCE, by Gunnar Myrdal, 1972 Apr. p. 15.
- POLLEN, by Patrick Echlin, 1968 Apr. p. 80. [1105]
- POLLS. PUBLIC OPINION, by Rensis Likert, 1948 Dec. p. 7.
- POLLUTANTS AND SOIL ANIMALS, SOIL, by Clive A Edwards, 1969 Apr. p. 88. [1138]
- POLLUTANTS. THE GLOBAL CIRCULATION OF ATMOSPHERIC, by Reginald E. Newell, 1971 Jan. p. 32. [894]
- POLLUTION, AIR, by Frits W. Went, 1955 May p. 62.
- POLLUTION AND AQUATIC LIFE, THERMAL, by John R. Clark, 1969 Mar. p. 18. [1135]
- POLLUTION AND PUBLIC HEALTH, AIR, by Walsh McDermott, 1961 Oct. p. 49. [612]
- POLLUTION. STREAM, by Rolf Eliassen, 1952 Mar. p. 17.
- POLLUTION, THE CONTROL OF AIR, by A. J. Haagen-Smit, 1964 Jan. p. 24. [618]
- POLYCYCLIC AROMATIC COMPOUNDS IN NATURE, by Max Blumer, 1976 Mar. p. 34.
- POLYETHYLENE, by Gerald Oster, 1957 Sept. p. 139.
- POLYETHYLENE, THE SOLID STATE OF, by Bernhard Wunderlich, 1964 Nov. p. 80.
- POLYGRAPH. THE, by Burke M. Smith, 1967 Jan. p. 25. [503]
- POLYMERIC MATERIALS. THE MICROSTRUCTURE OF, by D. R. Uhlmann and A. G. Kolbeck, 1975 Dec. p. 96.
- POLYMERIC MATERIALS. THE NATURE OF, by Herman F. Mark, 1967 Sept. p. 148.
- POLYMERS, INORGANIC, by Harry R. Allcock, 1974 Mar. p. 66.
- POLYMERS, PRECISELY CONSTRUCTED, by Giulio Natta, 1961 Aug. p. 33. [315]
- POLYMERS, THE MECHANICAL PROPERTIES OF, by Arthur V. Tobolsky, 1957 Sept. p. 120. POLYMORPHISM, DIFFERENTIATION.
 - MFTAMORPHOSIS, by V. B. Wigglesworth, 1959 Feb. p. 100. [63]
- POLYNESIA. THE SETTLEMENT OF, by Donald Stanley Marshall, 1956 Aug. p. 58. POLYOMA VIRUS. THE, by Sarah E. Stewart, 1960 Nov. p. 63, [77]

- POLYRIBOSOMES, by Alexander Rich, 1963 Dec. p. 44. [171]
- POMPEH, by Amedeo Maiuri, 1958 Apr. p. 68. POND, LIFE IN THE DEPTHS OF A, by Edward S. Deevey, Jr., 1951 Oct. p. 68.
- PONS OF THE BRAIN, VISUAL CELLS IN THE, by Mitchell Glickstein and Alan R. Gibson, 1976 Nov. p. 90. [573]
- POOR, THE POSSESSIONS OF THE, by Oscar Lewis, 1969 Oct. p. 114. [651]
- POPULATION, by Kingsley Davis, 1963 Sept. p. 62. [645]
- POPULATION, by Frank W. Notestein, 1951 Sept. p. 28.
- POPULATION, by Warren S. Thompson, 1950 Feb. p. 11.
- POPULATION CONTROL IN ANIMALS, by V. C. Wynne-Edwards, 1964 Aug. p. 68. [192]
- POPULATION CYCLES IN RODENTS, by Judith H. Myers and Charles J. Krebs, 1974 June p. 38. [1296]
- POPULATION DENSITY AND SOCIAL PATHOLOGY, by John B. Calhoun, 1962 Feb. p. 139. [506] POPULATION, FOOD AND, by Roger Revelle, 1974 Sept. p. 160.
- POPULATION, "GENETIC DRIFT" IN AN ITALIAN, by Luigi Luca Cavalli-Sforza, 1969 Aug. p. 30.
- POPULATION GENETICS AND HUMAN ORIGINS, by Robert B. Eckhardt, 1972 Jan. p. 94. [676]
- POPULATION GROWTH: 1750-1850, CHECKS ON, by William L. Langer, 1972 Feb. p. 92. [674]
- POPULATION. THE HISTORY OF THE HUMAN, by Ansley J. Coale, 1974 Sept. p. 40. POPULATION. THE HUMAN, 1974 Sept. issue.
- population, the human, 1974 Sept. Issue. population, the human, by Edward S. Deevey, Jr., 1960 Sept. p. 194. [608]
- population, the human, by Ronald Freedman and Bernard Berelson, 1974 Sept. p. 30.
- POPULATION. THE PROSPECTS FOR A STATIONARY WORLD, by Tomas Frejka, 1973 Mar. p. 15. [683]
- population. The urbanization of the human, by Kingsley Davis, 1965 Sept. p. 40. [659] population trends in an indian village, by
- Carl E. Taylor, 1970 July p. 106. [1184] POPULATION, WORLD, by Julian Huxley, 1956 Mar. p. 64. [616]
- POPULATIONS OF HOUSE MICE, by Robert L. Strecker, 1955 Dec. p. 92.
- populations of the developed countries, the, by Charles F. Westoff, 1974 Sept. p. 108.
- POPULATIONS OF THE UNDERDEVELOPED COUNTRIES. THE, by Paul Demeny, 1974 Sept. p. 148.
- p. 148. POPULATIONS, THE GENETICS OF HUMAN, by L. L. Cavalli-Sforza, 1974 Sept. p. 80.
- POPULATIONS, THE MIGRATIONS OF HUMAN, by Kingsley Davis, 1974 Sept. p. 92.
- PORES IN THE CELL MEMBRANE, by A. K. Solomon, 1960 Dec. p. 146. [76]
- PORPHYRIA AND KING GEORGE III, by Ida Macalpine and Richard Hunter, 1969 July p. 38. [1149]
- ORTUGUESE MAN-OF-WAR, THE, by Charles E. Lane, 1960 Mar. p. 158.
- POSITRON ANNIHILATION AND THE NEW PARTICLES, ELECTRON-, by Sidney D. Drell, 1975 June D. 50.
- POSITRON COLLISIONS, ELECTRON-, by Alan M. Litke and Richard Wilson, 1973 Oct. p. 104. POSITRONS AS A PROBE OF THE SOLID STATE, by Werner Brandt, 1975 July p. 34.
- POSSESSIONS OF THE POOR, THE, by Oscar Lewis, 1969 Oct. p. 114, [651]
- POSSUM, PLAYING, by Carl G. Hartman, 1950 Jan. p. 52.

- POST IN ROMAN BRITAIN A FRONTIER, by Robin Birley, 1977 Feb p 38 [692]
- POSTURE, THE ANTHROPOLOGY OF, by Gordon W Hewes, 1957 Feb p 122
- POTASSIUM, by Wallace O Fenn, 1949 Aug p 16
- POTATO THE SOCIAL INFLUENCE OF THE, by Redcliffe N Salaman, 1952 Dec p 50
- POTATOES THE LATE BLIGHT OF, by John S Niederhauser and William C Cobb, 1959 May p 100 [109]
- POTENTIAL THEORY BROWNIAN MOTION AND, by Reuben Hersh and Richard J Griego, 1969 Mar p 66
- POULTRY PRODUCTION, by Wilbor O Wilson, 1966 July p 56
- POVERTY AND SOCIAL CHANGE, by Alexander H Leighton, 1965 May p 21 [634]
- POVERTY THE CULTURE OF, by Oscar Lewis, 1966 Oct p 19 [631]
- POVERTY THE DIMENSIONS OF WORLD, by David Simpson, 1968 Nov p 27 [640]
- POWER BY LASER IMPLOSION FUSION, by John L Emmett, John Nuckolls and Lowell Wood, 1974 June p 24
- POWER DECISION MAKING IN THE PRODUCTION OF, by Milton Katz, 1971 Sept p 191 [671]
- POWER ENERGY AND, 1971 Sept issue POWER ENERGY AND, by Chauncey Starr, 1971 Sept p 36 [661]
- POWER FROM DIRTY FUELS CLEAN, by Arthur M Squires, 1972 Oct p 26
- POWER FROM THE SUN, by Eugene Ayres, 1950 Aug p 16
- POWER FUSION, by Richard F Post, 1957 Dec p 73 [236]
- POWER GEOTHERMAL, by Joseph Barnea, 1972
- Jan p 70 [898]
 POWER IN BRITAIN ATOMIC, by Sir Christopher
- Hinton, 1958 Mar p 29
 POWER INTERNATIONAL COOPERATION IN
- POWER INTERNATIONAL COOPERATION IN NUCLEAR, by Donald J. Hughes, 1955 Apr p 31
- POWER NUCLEAR WEAPONS AND INTERNATIONAL STABILITY NUCLEAR, by David J Rose and Richard K Lester, 1978 Apr p 45 [3004] POWER PROGRESS IN SOLAR, by Harry Tabor,
- 1956 July p 97

 POWER PROGRESS TOWARD FUSION, by T K

 Fowler and Richard F Post, 1966 Dec p 21

 POWER REACTORS, by Alvin M Weinberg, 1954
- Dec p 33

 POWER STATIONS ON THE FEASIBILITY OF COAL

 DRIVEN, by O R Frisch, 1956 Mar p 93
- POWER SYSTEMS COMPUTER CONTROL OF ELECTRIC, by Hans Glavitsch, 1974 Nov p 34
- POWER SYSTEMS COMPUTER CONTROL OF ELECTRIC , by Hans Glavitsch, 1974 Nov p 34 POWER THE ARRIVAL OF NUCLEAR, by John F
- Hogerton, 1968 Feb p 21
 POWER THE ECONOMICS OF ATOMIC, by Sam H
- Schurr, 1951 Jan p 32
 POWER THE NECESSITY OF FISSION, by H A
- Bethe, 1976 Jan p 21 [348]
 POWER THE PROSPECTS OF FUSION, by William C
 Gough and Bernard J Eastlund, 1971 Feb
- p 50 [340]
 POWER TRANSMISSION HIGH VOLTAGE, by L O
 Barthold and H G Pfeiffer, 1964 May p 38
- POWER TRANSMISSION SUPERCONDUCTORS FOR, by Donald P Snowden, 1972 Apr p 84 POWERHOUSE OF THE CELL, by Philip Siekevitz,
- 1957 July p 131 [36]
 PRACTICE OF QUALITY CONTROL, THE, by A G
 Dalton, 1953 Mar p 29

- PRAIRIE DOGS THE SOCIAL BEHAVIOR OF, by John A King, 1959 Oct p 128
- PRL CAMBRIAN ANIMALS, by Martin F Glaessner, 1961 Mar p 72 [837]
- PRLCISELY CONSTRUCTED POLYMERS, by Giulio Natta, 1961 Aug p 33 [315]
- PRE COLUMBIAN RIDGED FIELDS, by James J Parsons and William M Denevan, 1967 July p 92
- PRE COLUMBIAN URBAN CENTER ON THE
 MISSISSIPPI A, by Melvin L Fowler, 1975 Aug
 p 92 [688]
- PREDATORY FUNGI, by Joseph J Maio, 1958 July p 67
- PREDATORY WASPS, by Howard E Evans, 1963 Apr p 144
- PREFRONTAL LOBOTOMY ANALYSIS AND WARNING, by Kurt Goldstein, 1950 Feb p 44 [445] PREHISTORIC ART IN THE ALPS, by Emmanuel Anati, 1960 Jan p 52
- PREHISTORIC MAN IN MAMMOTH CAVE, by Douglas W Schwartz, 1960 July p 130
- PREHISTORIC MAN IN THE GRAND CANYON, by Douglas W Schwartz, 1958 Feb p 97 PREHISTORIC SWISS LAKE DWELLERS, by
- Hansjurgen Muller-Beck, 1961 Dec p 138 PREHISTORY 17000 YEARS OF GREEK, by Thomas W Jacobsen, 1976 June p 76
- PREHISTORY IN INDIA LIVING, by D D Kosambi, 1967 Feb p 104
- PREHISTORY OF EUROPE, CARBON 14 AND THE, by Colin Renfrew, 1971 Oct p 63 [672]
- PREHISTORY OF THE AUSTRALIAN ABORIGINE, THE, by D J Mulvaney, 1966 Mar p 84 [628] PREJUDICE, by Bruno Bettelheim and Morris
- Janowitz, 1950 Oct p 11
 PREMATURITY AND UNIQUENESS IN SCIENTIFIC
 DISCOVERY, by Gunther S Stent, 1972 Dec
 p 84 [1261]
- PRENATAL DIAGNOSIS OF GENETIC DISEASE, by
 Theodore Friedmann, 1971 Nov p 34 [1234]
 PRESENT EVOLUTION OF MAN THE, by Theodosius
- Dobzhansky, 1960 Sept p 206 [609] PRESERVATION OF STONE, THE, by Lal Gauri, 1978 June p 126 [3012]
- PRESSURE, CELLS AT HIGH, by Douglas Marsland, 1958 Oct p 36
- PRESSURE, MAGNETIC RESONANCE AT HIGH, by George B Benedek, 1965 Jan p 102
- PRESSURE OF LASER LIGHT THE, by Arthur Ashkin, 1972 Feb p 62
- PRESSURE, RADIATION, by George E Henry, 1957 June p 99 PRESSURE, SMELTING UNDER, by Leonard Engel,
- 1948 May p 54
 PRESSURE, SUPERCONDUCTIVITY AT HIGH, by N B
- Brandt and N I Ginzburg, 1971 Apr p 83
 PRESSURE TECHNOLOGY HIGH, by Alexander
 Zeitlin, 1965 May p 38
- PRESSURE THE SYNTHESIS OF DIAMOND AT LOW, by B V Depaguin and D B Fedoseev, 1975

 Nov p 102
- PRESSURES ULTRAHIGH, by H Tracy Hall, 1959 Nov p 61
- PRESTRESSED CONCRETE, by T Y Lin, 1958 July p 25
- PREVENTION OF MURDER THE, by Fredric Wertham, 1949 June p 50
- PREVENTION OF "RHESUS BABIES, THE, by C A Clarke, 1968 Nov p 46 [1126] PREVENTION OF SMALLPOX BEFORE JENNER THE,
- by William L Langer, 1976 Jan p 112 PRIESTLEY, by Mitchell Wilson, 1954 Oct p 68 PRIMEV AL FIREBALL, THE, by P J E. Peebles and David T Wilkinson, 1967 June p 28

- PRIMITIVE ARCHITECTURE AND CLIMATE, by James
 Marston Fitch and Daniel P Branch, 1960
 Dec p 134
- PRIMITIVE KINSHIP, by Meyer Fortes, 1959 June p 146
- PRIMITIVE MEDICINE, by Elizabeth A Ferguson, 1948 Sept p 24
- PRIMITIVE OBJECTS IN THE SOLAR SYSTEM THE MOST, by Lawrence Grossman, 1975 Feb p 30
- PRINCIPLE OF UNCERTAINTY THE, by George Gamow, 1958 Jan p 51 [212]
- PROBABILITY, by Mark Kac, 1964 Sept p 92 PROBABILITY, by Warren Weaver, 1950 Oct p 44
- PROBABILITY OF DEATH THE, by Edward S Deevey, Jr., 1950 Apr p 58
- PROBABILITY SUBJECTIVE, by John Cohen, 1957 Nov p 128 [427]
- PROBABILITY⁹ WHAT IS, by Rudolf Camap, 1953 Sept p 128
- PROBLEM HILBERT'S 10TH, by Martin Davis and Reuben Hersh, 1973 Nov p 84
- PROBLEM OF THE QUASI STELLAR OBJECTS THE, by Geoffrey Burbidge and Fred Hoyle, 1966 Dec p 40 [305]
- PROBLEM SOLVING, by Martin Scheerer, 1963 Apr p 118 [476]
- PROBLEM THE SOLUTION OF THE FOUR COLOR MAP, by Kenneth Appel and Wolfgang Haken, 1977 Oct p 108 [387]
- PROBLEMS IN ARITHMETIC UNSOLVED, by Howard DeLong, 1971 Mar p 50
- PROCESS CONTROL, ANALYTIC INSTRUMENTS IN, by F W Karasek, 1969 June p 112
- PROCESSES OF VISION THE, by Ulric Neisser, 1968
 Sept p 204 [519]
- PRODUCT TECHNOLOGY AND THE CONSUMER, by G Franklin Montgomery, 1977 Dec p 47 [703]
- PRODUCTION AS A PROCESS IN THE BIOSPHERE.
 HUMAN ENERGY, by S Fred Singer, 1970 Sept
 p 174 [1197]
- PRODUCTION AS A PROCESS IN THE BIOSPHERE HUMAN FOOD, by Lester R Brown, 1970 Sept p 1960 [1196]
- PRODUCTION AS A PROCESS IN THE BIOSPHERE, HUMAN MATERIALS, by Harrison Brown, 1970 Sept p 194 [1198]
- PRODUCTION OF HEAT BY FAT THE by Michael J R Dawkins and David Hull 1965 Aug p 62 PRODUCTION POULTRY, by Wilbor O Wilson 1966 July p 56
- PRODUCTION THE AMPLIFICATION OF AGRICULTURAL, by Peter R Jennings, 1976 Sept p 180
- PRODUCTIVITY INDUSTRIAL, by Seymour Melman, 1955 July p 33
- PROGESTERONE, by Arpad Csapo 1958 Apr p 40 [163]
- PROGRAM OF FERTILIZATION THE by David Epel 1977 Nov p 128 [1372]
- PROGRAMMING LINEAR by William W Cooper and Abraham Charnes, 1954 Aug p 21
- PROGRAMMING SYSTEM ANALYSIS AND, by Christopher Strachey, 1966 Sept p 112 PROGRESS IN PHOTOSYNTHESIS, by Eugene I
- Rabinowitch, 1953 Nov p 80 PROGRESS IN SOLAR POWER, by Harry Tabor 1956 July p 97
- PROGRESS OF ANTIBIOTICS THE, by Kenneth B Raper, 1952 Apr p 49
- PROGRESS TOWARD FUSION FOWLER, by T K
 Fowler and Richard F Post, 1966 Dec p 21
 PROJECTIONS IMAGE RECONSTRUCTION FROM by
- Richard Gordon, Gabor T. Herman and Steven A. Johnson, 1975 Oct. p. 56

PROJECTIVE GEOMETRY, by Morris Kline, 1955
Jan p 80

PROLIFERATION OF NUCLEAR WEAPONS THE, by William Epstein, 1975 Apr p 18 PROOF RANDOMNESS AND MATHEMATICAL, by

Gregory J Chaitin, 1975 May p 47
PROOF TRUTH AND, by Alfred Tarski, 1969 June

PROSPECTING CHEMICAL, by Harold Bloom and Harold F Walton, 1957 July p 41

PROSPECTS FOR A STATIONARY WORLD
POPULATION THE, by Tomas Frejka, 1973 Mar
p 15 [683]

PROSPECTS OF FUSION POWER THE, by William C Gough and Bernard J Eastlund, 1971 Feb p. 50 (140)

PROSTAGLANDINS, by John E. Pike, 1971 Nov p 84 [1235]

PROTEIN CUTTING PROTEINS A FAMILY OF, by Robert M Stroud, 1974 July p 74 [1301] PROTEIN DIGESTING ENZYMES, by Hans Neurath,

1964 Dec p 68

PROTEIN EVOLUTION COMPUTER ANALYSIS OF, by Margaret Oakley Dayhoff, 1969 July p 86 [1148]

PROTEIN FROM PETROLEUM, by Alfred Champagnat, 1965 Oct p 13 [1020]

PROTEIN MADE? HOW IS A, by K U Linderstrom-Lang, 1953 Sept p 100

PROTEIN MOLECULE, THE THREE DIMENSIONAL STRUCTURE OF A, by John C Kendrew, 1961 Dec p 96 [121]

PROTEIN MOLECULES THE STRUCTURE OF, by Linus Pauling, Robert B Corey and Roger Hayward, 1954 July p 51 [31]

PROTEIN SHAPE AND BIOLOGICAL CONTROL, by Daniel E. Koshland, Jr., 1973 Oct. p. 52 [1280]

PROTEIN STRUCTURE. GENE STRUCTURE AND, by Charles Yanofsky, 1967 May p 80 [1074] PROTEIN SWITCH OF MUSCLE CONTRACTION THE, by Carolyn Cohen, 1975 Nov p 36 [1329] PROTEIN SYNTHESIS EXPERIMENTS IN, by Ernest

F Gale, 1956 Mar p 42 PROTEIN SYNTHESIS. MEMORY AND, by Bernard W Agranoff, 1967 June p 115 [1077]

PROTEIN THE STRUCTURE AND HISTORY OF AN ANCIENT, by Richard E. Dickerson, 1972 Apr p 58 [1245]

PROTEINS, by Joseph S Fruton, 1950 June p 32 [10]

PROTEINS, by Paul Doty, 1957 Sept p 173 [7]
PROTEINS AND GENE REGULATION CHROMOSOMAL,
by Gary S Stein, Janet Swinehart Stein and
Lewis J Kleinsmith, 1975 Feb p 46 [1315]
PROTEINS NUCLEIC ACIDS AND, by Mahlon B

Hoagland 1959 Dec p 55
PROTEINS START HOW, by Brian F C Clark and

Kjeld A Marcker, 1968 Jan p 36 [1092]
PROTEINS THE AUTOMATIC SYNTHESIS OF, by R B

Merrifield, 1968 Mar p 56 [320]
PROTEINS THE CHEMICAL STRUCTURE OF, by
William H Stein and Stanford Moore, 1961
Feb p 81

PROTEINS, THE COOPERATIVE ACTION OF MUSCLE, by John M. Mutray and Annemarie Weber, 1974 Feb. p. 58 [1290]

PROTO-CASTLES OF SARDINIA THE, by Giovanni Lilliu 1959 Dec p 62

PROTOHUM IN HOMINIOS. THE FOOD-SHARING BYHAVIOR OF, by Glynn Islac, 1978 Apr p 90 [706]

TROTON AND THE NEUTRON THE STRUCTURE OF THE, by Henry W. Kendall and Wolfgang PANOSES, 1971 June p. 60

Ugo Amaidi 1973 Nov p 36

PROTOPSYCHOLOGY, by Jay Boyd Best, 1963 Feb p 54 [149]

PROTOZOON THE EMBRYOLOGIST AND THE, by Paul B Weisz, 1953 Mar p 76

PSYCHIATRIC DRUGS THE NEW, by Harold E Himwich, 1955 Oct p 80

PSYCHIATRIC FILMS, 1949 Sept p 42

PSYCHIATRIC INTERVENTION, by Leon Eisenberg, 1973 Sept p 116

PSYCHIATRISTS AND THE ADVERSARY PROCESS, by David L Bazelon, 1974 June p 18

PSYCHIATRY ACOUSTIC METHODS IN, by Peter F Ostwald, 1965 Mar p 82 [492]

PSYCHOLOGICAL FACTORS IN STRESS AND DISEASE, by Jay M. Weiss, 1972 June p. 104 [544] PSYCHOLOGICAL TIME, by John Cohen, 1964 Nov

p 116
PSYCHOLOGIST EXAMINES 64 EMINENT SCIENTISTS

A, by Anne Roe, 1952 Nov p 21 PSYCHOLOGY, by Hadley Cantril, 1950 Sept p 79

PSYCHOLOGY AND THE INSTRUMENT PANEL, by Alphonse Chapanis, 1953 Apr p 74 [496] PSYCHOLOGY ECONOMIC, by George Katona, 1954 Oct p 31 [452]

PSYCHOLOGY OF IMAGINATION THE, by Frank Barron, 1958 Sept p 150 [432]

PSYCHOPHYSICS EXPERIMENTS IN ANIMAL, by
Donald S Blough, 1961 July p 113 [458]

PSYCHOSES EXPERIMENTAL, by Six Staff
Members of Boston Psychopathic Hospital,
1955 June p 34

PSYCHOTHERAPY BEHAVIORAL, by Albert Bandura, 1967 Mar p 78 [505]

PSYCHOTHERAPY "CLIENT-CENTERED, by Carl R Rogers, 1952 Nov p 66 [448]

PSYCHOTHERAPY FOR SCHIZOPHRENIA, by Don D Jackson, 1953 Jan p 58 [447]

PSYCHOTHERAPY GROUP, by S. R. Slavson, 1950 Dec p 42 [449]

PUBLIC HEALTH AIR POLLUTION AND, by Walsh McDermott, 1961 Oct p 49 [612]

PUBLIC OPINION POLLS, by Rensis Likert, 1948

Dec p 7

PUBLIC POLICY ON FERTILITY CONTROL, by

Frederick S Jaffe, 1973 July p 17
PUFFS CHROMOSOME, by Wolfgang Beermann
and Ulrich Clever, 1964 Apr p 50 [180]
PULP WOOD, by F Keith Hall, 1974 Apr p 52
PULSARS, by Anthony Hewish, 1968 Oct p 25
PULSARS THE NATURE OF, by Jeremiah P

Ostriker, 1971 Jan p 48
PULSATING STARS, by John R Percy, 1975 June

PULSATING STARS AND COSMIC DISTANCES, by Robert P Krast 1959 July p 48

PULSE CODE MODULATION, by J S Mayo, 1968
Mar p 102

PUMP THE HEAT, by John F Sandfort, 1951 May p 54

PUMPS IN THE LIVING CELL, by Arthur K. Solomon 1962 Aug p 100

PUPFISH THE DESERT, by James H Brown, 1971 Nov p 104 [1236]

PUPIL SIZE, ATTITUDE AND, by Eckhard H Hess, 1965 Apr p 46 [493]

PUPIL SIZE IN COMMUNICATION THE ROLE OF, by Echhard H Hess, 1975 Nov. p. 110 [567] PURE METALS by Lawrence P Lessing, 1954 July

p 36
PURPLE BACTERIA, by Roderick K. Clayton and
Max Delbruck, 1951 Nov. p 68

PURPLE FONGLOVE WILLIAM WITHERING AND THE, by J Worth Estes and Paul Dudley White, 1965 June p 110

PURPLE MEMBRANE OF SALT LOVING BACTERIA THE, by Walther Stoeckenius, 1976 June p 38 [1340]

PURSUIT OF A DISEASE, by Geoffrey Dean, 1957
Mar p 133

PYGMIES THE LESSON OF THE, by Colin M Turnbull, 1963 Jan p 28 [615] PYTHAGOREANS THE VIBRATING STRING OF THE, by E Eugene Helm, 1967 Dec p 92

Q

QANATS OF IRAN THE, by H E Wulff, 1968 Apr p 94

QUALITY CONTROL THE PRACTICE OF, by A G Dalton, 1953 Mar p 29

QUANTIZED VORTEY RINGS IN SUPERFLUID
HELIUM, by F Reif, 1964 Dec p 116
QUANTUM EFFECTS IN SUPERCONDUCTORS, by R

D Parks, 1965 Oct p 57 QUANTUM MECHANICS OF BLACK HOLES THE, by S W Hawking, 1977 Jan p 34 [349]

W Hawking, 1977 Jan p 34 [349] QUANTUM THEORY THE, by Karl K. Darrow, 1952 Mar p 47 [205]

QUARKS THE CONFINEMENT OF, by Yoichiro Nambu, 1976 Nov p 48

QUARKS WITH COLOR AND FLAVOR, by Sheldon Lee Glashow, 1975 Oct p 38

QUASARS THE EVOLUTION OF, by Maarten Schmidt and Francis Bello, 1971 May p 54 "QUASI PARTICLES SUPERFLUIDITY AND, by F

Reif, 1960 Nov p 138 [272]
QUASI STELLAR OBJECTS THE ABSORPTION LINES

of, by E Margaret Burbidge and C Roger Lynds, 1970 Dec p 22 QUASI STELLAR OBJECTS THE PROBLEM OF THE, by

Geoffrey Burbidge and Fred Hoyle, 1966 Dec p 40 [305]

QUASI STELLAR RADIO SOURCES, by Jesse L Greenstein, 1963 Dec p 54 QUEUES, by Martin A Leibowitz, 1968 Aug p 96

QUICK CLAY, by Paul F Kerr, 1963 Nov p 132 QUICKSAND, by Gerard H Matthes, 1953 June p 97

QUMRAN THE NEW COVENANTERS OF, by Shemaryahu Talmon, 1971 Nov p 72

R

RABBIT HEMOGLOBIN FROM FROG EGGS, by Charles Lane, 1976 Aug p 60 [1343] RABBIT PLAGUE THE, by Frank Fenner, 1954 Feb

RABBITS TERRITORIAL MARKING BY, by Roman Mykytowycz, 1968 May p 116 [1108] RACE INTELLIGENCE AND, by Walter F Bodmer

and Luigi Luca Cavalli Sforza, 1970 Oct p 19 [1199] RACE OF 1895 THE GREAT AUTOMOBILE, by Jacques

Ickx, 1972 May p 102

RACES OF MAN RHAND THE, by William C Boyd, 1951 Nov p 22

RACIAL INTEGRATION ATTITUDES TOWARD, by Andrew M. Greeley and Paul B. Sheatsley, 1971 Dec. p. 13 [673]

RACIAL INTEGRATION ATTITUDES TOWARD, by D Garth Taylor, Paul B Sheatsley and Andrew M Greeley, 1978 June p 42 [707] RADAR, AIRPORT, 1952 June p 64

RADAR AND THE WEATHER, by Hal Foster, 1953 Jul 34

- RADAR ASTRONOMY, by Von R Eshleman and Allen M Peterson, 1960 Aug p 50
- RADAR OBSERVATIONS OF THE PLANETS, by Irwin I Shapiro, 1968 July p 28
- RADAR SIDE LOOKING AIRBORNE, by Homer Jensen, L C Graham, Leonard J Porcello and Emmett N Leith, 1977 Oct p 84 [386] RADIATION AND LVOLUTION IONIZING, by James
- F Crow, 1959 Sept p 138 [55]
- RADIATION AND HUMAN MUTATION, by H J Muller, 1955 Nov p 58 [29]
- RADIATION AND MEDICINE, IONIZING, by Shields Warren, 1959 Sept p 164
- RADIATION AND METALS IONIZING, by Douglas S Billington, 1959 Sept p 200
- RADIATION AND NUCLEIC ACID ULTRAVIOLET, by R. A. Deering, 1962 Dec. p. 135 [143]
- RADIATION AND ORGANIC CHEMISTRY IONIZING,
- by A Charlesby, 1959 Sept p 180
 RADIATION AND THE CITIZEN IONIZING, by
- George W Beadle, 1959 Sept p 219 [1214] RADIATION AND THE HUMAN CELL, by Theodore T Puck, 1960 Apr p 142 [71]
- RADIATION AND THE LIVING CELL, IONIZING, by Alexander Hollaender and George E Stapleton, 1959 Sept p 94
- RADIATION AND THE NEW AETHER DRIFT THE COSMIC BACKGROUND, by Richard A Muller, 1978 May p 64 [3008]
- RADIATION AND THE WHOLE ANIMAL, IONIZING, by John F Loutit, 1959 Sept p 117
- RADIATION BELTS, by Brian J O'Brien, 1963 May p 84
- RADIATION BELTS AROUND THE EARTH, by James A Van Allen, 1959 Mar p 39
- RADIATION FROM A REACTOR, by W H Jordan, 1951 Oct p 54
- RADIATION IMITATING CHEMICALS, by Peter Alexander, 1960 Jan p 99
- RADIATION IONIZING, 1959 Sept issue RADIATION METEORITES AND COSMIC, by I R Cameron, 1973 July p 64
- RADIATION ON SOLIDS THE EFFECTS OF, by Frederick Seitz and Eugene P Wigner, 1956 Aug p 76 [245]
- RADIATION PRESSURE, by George E Henry, 1957
 June p 99
- RADIATION THE COSMIC BACKGROUND, by Adrian Webster, 1974 Aug p 26
- RADIATION THE ECOLOGICAL EFFECTS OF, by
 George M Woodwell, 1963 June p 40 [159]
- RADIATION THE LETHAL EFFECTS OF, by Edward Spoerl, 1951 Dec p 22
- RADIATION THE USES OF SYNCHROTRON, by Ednor M Rowe and John H Weaver, 1977 June p 32 [365]
- RADIATION WEAPONS ENHANCED., by Fred M Kaplan, 1978 May p 44 [3007]
- RADIATION? WHAT IS IONIZING, by Robert L Platzman, 1959 Sept p 74
- RADICALS FREE, by Paul D Bartlett, 1953 Dec p 74
- RADICALS FROZEN FREE, by Charles M Hertzfeld and Arnold M Bass, 1957 Mar p 90 [263]
- RADICALS IN BIOLOGICAL SYSTEMS FREE, by William A Pryor, 1970 Aug p 70 [335]
- RADICALS IN SPACE HYDROLYL, by Brian J Robinson, 1965 July p 26
- RADICALS RADIO SIGNALS FROM HYDRONYL, by Alan H. Barrett, 1968 Dec. p. 36 RADIO ASTRONOMY, by Grote Reber, 1949 Sept.
- p 34
 RADIO ASTRONOMY INTERCONTINENTAL, by K. I
- RADIO ASTRONOM 1972 Feb p 72
 RADIO GALANIES, by D S Heeschen, 1962 Mar
 p 41 [278]

- RADIO GALANIES, by Martin Ryle, 1956 Sept [204]
- RADIO GALANIES GIANT, by Richard G Strom, George K Miley and Jan Oort, 1975 Aug p 26
- RADIO GALANY THE, by Gart Westerhout, 1959 Aug p 44 [250]
- RADIO OBSERVATORY A NATIONAL, by Bart J Bok, 1956 Oct p 56
- RADIO SIGNALS FROM HYDRONYL RADICALS, by Alan H Barret, 1968 Dec p 36
- RADIO SKY, THE, by John D Kraus, 1956 July p 32
- RADIO SOURCES QUASI STELLAR, by Jesse L Greenstein, 1963 Dec p 54
- RADIO SOURCES WITH THE MOON LOCATING, by R W Clarke, 1966 June p 30
- RADIO STARS, by A. C. B. Lovell, 1953 Jan 17 RADIO TLLESCOPE, THE 600-FOOT, by Edward F. McClain, Jr., 1960 Jan p. 45
- RADIO TELESCOPES, by John D Kraus, 1955 Mar p 36
- RADIO TRACKING SATELLITES BY, by John T Mengel and Paul Herget, 1958 Jan p 23
- RADIO TRANSMISSION NEW METHODS OF, by Jerome B Wiesner, 1957 Jan p 46
- RADIO WAVES AND MATTER, by Harry M Davis, 1948 Sept p 16
- RADIO WAVES FROM INTERSTELLAR HYDROGEN, by Harold I Ewen, 1953 Dec p 42
- RADIO WAVES FROM JUPITER, by K. L. Franklin, 1964 July p. 34
- RADIO WAVES FROM THE SUN, by J P Wild, 1955
 June p 40
- June p 40 RADIO WAVES IN SPACE. THE ABSORPTION OF, by A
- E Lilley, 1957 July p 48
 RADIO WAVES THE SHORTEST, by Walter Gordy,
- 1957 May p 46
 RADIOACTIVE ISOTOPES THE CIRCULATION OF, by
 James R Arnold and E A Martell, 1959
- Sept p 84
 RADIOACTIVE POISONS, by Jack Schubert, 1955
 Aug p 34
- RADIOACTIVE TUBERCULOSIS DRUGS, by Lloyd J
 Roth and Roland W Manther, 1956 Nov
- RADIOACTIVE WASTES FROM FISSION REACTORS
 THE DISPOSAL OF, by Bernard L Cohen, 1977
 June p 21 [364]
- RADIOACTIVITY AND TIME, by P M Hurley, 1949
- Aug p 48
 RADIOCARBON DATING, by Edward S Deevey,
- Jr., 1952 Feb p 24 [811] RADIO EMITTING FLARE STARS, by Sir Bernard Lovell, 1964 Aug p 13
- RADIOGRAPHY NEUTRON, by Harold Berger, 1962 Nov p 107 [287]
- RAIN CLOUDS SUN CLOUDS AND, by Walter Orr Roberts, 1957 Apr p 138 [849]
- RAIN FOREST THE TROPICAL, by Paul W Richards, 1973 Dec p 58 [1286]
- RAIN SALT AND, by A H Woodcock, 1957 Oct p 42 [850]
- RAINBOW THE THEORY OF THE, by H Moyses Nussenzveig, 1977 Apr p 116 [361]
- RAINDROP EROSION BY, by W D Ellison, 1948
 Nov p 40 [817]
- RAINDROPS, THE SHAPE OF, by James E. McDonald, 1954 Feb p 64
- RAMANUJAN SRINIVASA, by James R. Newman, 1948 June p. 54
- RAMAPITHECUS, by Elwyn L Simons, 1977 May p 28 [695]
- RANDOMNESS AND MATHEMATICAL PROOF, by Gregory J. Chaitin, 1975 May p. 47 RANGELANDS OF THE WESTERN U.S., THE, by R. Merton Love, 1970 Feb. p. 58

- RANGLR MISSIONS TO THE MOON THE, by H M Schurmeier, R L Heacock and A E Wolfe, 1966 Jan p 52
- RAPID EXCAVATION, by Thomas E Howard, 1967 Nov p 74
- RARE EARTHS THE, by Frank H Spedding, 1951 Nov p 26
- RAT SOCIETIES, by Richard Lore and Kevin Flannelly, 1977 May p 106 [577]
- RAT THE DESERT, by Knut and Bodil Schmidt-Nielsen, 1953 July p 73
- RATIONAL ENGINE RUDOLF DIESEL AND HIS, by Lynwood Bryant, 1969 Aug p 108
- RATS, by S A Barnet, 1967 Jan p 78 RATTLESNAKE STRIKES, HOWA, by Walker Van Riper, 1953 Oct p 100
- RAYS COME FROM WHERE DO COSMIC, by Bruno Rossi, 1953 Sept p 64 [239]
- RAYS COSMIC, by George W Gray, 1949 Mar p 28
- RAYS HIGH ENERGY COSMIC, by Bruno Rossi, 1959 Nov p 134
- RAYS SOLAR PARTICLES AND COSMIC, by Kinsey A Anderson, 1960 June p 64
- RAYS THE ASTROPHYSICS OF COSMIC, by V L Ginzburg, 1969 Feb p 50
- RAYS THE ORIGIN OF CSMIC, by Geoffrey Burbidge, 1966 Aug p 32
- REACTION THE ALARM, by P C Constantinides
- and Niall Carey, 1949 Mar p 20 [4]
 REACTOR, A NATURAL FISSION, by George A
- Cowan, 1976 July p 36
 REACTOR AS A RESEARCH INSTRUMENT THE
 NUCLEAR, by Donald J Hughes, 1953 Aug
- p 23 [219] REACTOR FUEL ELEMENTS, by James F Schumar, 1959 Feb p 37
- REACTOR NORWAY, 1951 Dec p 30
- REACTOR, RADIATION FROM A, by W H Jordan, 1951 Oct p 54
- REACTOR SUPERPHÉNIX A FULL SCALE BREEDER, by Georges A Vendryes, 1977 Mar p 26 [355]
- REACTOR THE BREEDER, 1952 Dec p 58
 REACTORS, by Lawrence R Hafstad, 1951 Apr
 p 43
- REACTORS A THIRD GENERATION OF BREEDER, by T R Bump, 1967 May p 25
- REACTORS BREEDER, by Alvin M Weinberg, 1960 Jan p 82
- REACTORS FAST BREEDER, by Glenn T Seaborg and Justin L Bloom, 1970 Nov p 13 [339] REACTORS GENEVA, by Robert A Charpie, 1955 Oct p 56
- REACTORS NATURAL URANIUM HEAVY WATER, by Hugh C McIntyre, 1975 Oct p 17 REACTORS POWER, by Alvin M Weinberg, 1954
- Dec p 33
 REACTORS THE DISPOSAL OF RADIOACTIVE WASTLS
 FROM FISSION, by Bernard L Cohen 1977
- FROM FISSION, by Bernard L Cohen 1977

 June p 21 [364]

 REACTORS THE LEAKAGF PROBLEM IN FUSION by
- Francis F Chen, 1967 July p 76
 READING EXPERIMENTS IN, by Paul A Kolers
 1972 July p 84 [545]
- REAL NUMBER LINE, NEW MODELS OF THE, by Lynn Arthur Steen, 1971 Aug p 92
- REAPPORTIONMENT AND REDISTRICTING, by Ruth C Silva, 1965 Nov p 20
- REBUILDING A VIRUS, by Heinz Fraenkel-Conrat 1956 June p 42 [9]
- RECEPTER OF MOTHS THE SEX ATTRACTANT, by Dietrich Schneider, 1974 July p 36 [1299] RECEPTOR SITE FOR A BACTERIAL VIRUS THE, by Richard I osick and Philips W Robbins, 1969 Nov p 120 [1161]

- RECEPTORS AND INTERNAL OPIATES, OPIATE, by Solomon H. Snyder, 1977 Mar. p. 44. [1354] RECEPTORS OF SNAKES, THE INFRARED, by R. Igor Gamow and John F. Hartis, 1973 May p. 94. [1272]
- RECEPTORS OF STEROID HORMONES, THE, by Bert W. O'Malley and William T. Schrader, 1976 Feb. p. 32. [1334]
- RECEPTORS, TASTE, by Edward S. Hodgson, 1961 May p. 135.
- RECLAMATION OF MAN-MADE DESERT. THE. by Walter C. Lowdermilk, 1960 Mar. p. 54.
 RECOGNITION, ADVANCES IN PATTERN, by Richard G. Casey and George Nagy, 1971 Apr. p. 56.
- RECOGNITION OF DNA IN BACTERIA, THE, by Salvador E. Luria, 1970 Jan. p. 88. [1167]
- RECOGNITION OF FACES, THE, by Leon D. Harmon, 1973 Nov. p. 70. [555]
- RECOMBINANT-DNA DEBATE. THE, by Clifford Grobstein, 1977 July p. 22. [1362]
- RECONNAISSANCE AND ARMS CONTROL, by Ted Greenwood, 1973 Feb. p. 14. [346] RECORD OF HUMAN ILLNESS, THE, by Wilton M.
- Krogman, 1949 Jan. p. 52.
 RECORDING, MAGNETIC, by Victor E. Ragosine,
- 1969 Nov. p. 70.
 RECORDS. RUNNING, by M. H. Lietzke, 1952 Aug.
- p. 52. recovery of europe ("e.c.e.report"), 1948 July
- p.9.
- RECOVERY OF PETROLEUM. THE SECONDARY, by Noel de Nevers, 1965 July p. 34.
- RED BLOOD CELL, THE, by Eric Ponder, 1957 Jan. p. 95.
- RED CELLS, THE STATE OF WATER IN, by Arthur K. Solomon, 1971 Feb. p. 88. [1213]
- RED DOG. BLACKJACK AND POKER, by Richard Belman and David Blackwell, 1951 Jan 44. RED-FEATHER MONEY, by William Davenport, 1962 Mar. p. 94.
- RED SEA HOT BRINES, THE, by Egon T. Degens and David A. Ross, 1970 Apr. p. 32.
- RED-SHIFT. THE, by Allan R. Sandage., 1956 Sept. p. 170[240]
- REDISTRICTING, REAPORTIONMENT AND, by Ruth C. Silva, 1965 Nov. p. 20.
- REDUNDANCY IN COMPUTERS, by William H. Pierce, 1964 Feb. p. 103. [298]
- REEFS. THE EVOLUTION OF, by Norman D. Newell, 1972 June p. 54. [901]
- RE-ENTRY FROM SPACE, by John V. Becker, 1961 Jan. p. 49.
- REFINING, ZONE, by William G. Pfann, 1967 Dec.
- REFLECTOR. THE LUNAR LASER, by James E. Faller and E. Joseph Wampler, 1970 Mar. p. 38.
- REFLECTORS IN FISHES, by Eric Denton, 1971 Jan. p. 64. [1209]
- REFRIGERATION CYCLE, THE STIRLING, by J. W. L. Kohler, 1965 Apr. p. 119.
- REGENERATION AND PATTERN FORMATION BIOLOGICAL, by Peter J. Bryant, Susan V. Bryant and Vernon French, 1977 July p. 66. [1363]
- REGENERATION OF BODY PARTS. THE, by Marcus Singer, 1958 Oct. p. 79.
- RELATIONSHIPS OF ANIMALS, THE BLOOD, by Alan A. Boyden, 1951 July p. 59.
- RELATIVISM OF ABSOLUTE JUDGMENTS, THE, by Allen Parducci, 1968 Dec. p. 84, [518]
- RILATIVITY ARTIFICIAL SATELLITES AND THE HILDRY OF, by V. L. Ginzburg, 1959 May p. 149.
- RELAXATION METHODS IN CHEMISTRY, by Larry Faller, 1969 May p. 30.

- REMEMBER WHAT WE SEE, HOW WE, by Ralph Norman Haber, 1970 May p. 104. [528]
- REMEMBERING, THE NEUROPHYSIOLOGY OF, by Karl H. Pribram, 1969 Jan. p. 73. [520]
- REMOTE SENSING OF NATURAL RESOURCES, by Robert N. Colwell, 1968 Jan. p. 54.
- RENAISSANCE DINOSAUR, by Robert T. Bakker, 1975 Apr. p. 58. [916]
- RENEWAL OF CITIES, THE, by Nathan Glazer, 1965 Sept. p. 194.
- RÉPAIR OF DNA, THE, by Philip C, Hanawalt and Robert H. Haynes, 1967 Feb. p. 36.
- REPEATED SEGMENTS OF DNA, by Roy J. Britten and David E. Kohne, 1970 Apr. p. 24. [1173] REPELLENTS REPEL, WHY MOSQUITO, by R. H.
- Wright, 1975 July p. 104.
- REPETITION AND LEARNING, by Irvin Rock, 1958 Aug. p. 68. [422]
- REPETITIVE PROCESSES IN CHILD DEVELOPMENT, by T. G. R. Bower, 1976 Nov. p. 38. [572] REPRESSORS, GENETIC, by Mark Ptashne and
- Walter Gilbert, 1970 June p. 36. [1179] REPROCESSING OF NUCLEAR FUELS. THE, by
- William P. Bebbington, 1976 Dec. p. 30.
 REPRODUCING MACHINES, SELF-, by L. S. Penrose
- REPRODUCING MACHINES, SELF-, by L. S. Penrose, 1959 June p. 105. [74]
- REPRODUCTION OF BIRDS, PESTICIDES AND THE, by David B. Peakall, 1970 Apr. p. 72. [1174]
- REPRODUCTION OF SOUND, THE, by Edward E. David Jr., 1961 Aug. p. 72.
- REPRODUCTION, THE PHYSIOLOGY OF HUMAN, by Sheldon J. Segal, 1974 Sept. p. 52.
- REPRODUCTIVE BEHAVIOR OF RING DOVES, THE, by Daniel S. Lehrman, 1964 Nov. p. 48. [488]
 REPTILES REGULATE THEIR BODY TEMPERATURE.
- HOW, by Charles M. Bogert, 1959 Apr. p. 105. REQUIREMENTS OF HUMAN NUTRITION, THE, by Nevin S. Scrimshaw and Vernon R. Young,
- 1976 Sept. p. 50.
 RESERVOIRS TO CONTROL THE WATER CYCLE,
 UNDERGROUND, by Robert P. Ambroggi, 1977
- May p. 21. [924]
 RESIDENTIAL SEGREGATION, by Karl E. Taeuber,
- 1965 Aug. p. 12. [626]
 RESONANCE AT HIGH PRESSURE, MAGNETIC, by
- George B. Benedek, 1965 Jan. p. 102. RESONANCE MAGNETIC, by George E. Pake, 1958
- Aug. p. 58. [233]
 RESONANCE MODELS OF ELEMENTARY PARTICLES.
- DUAL-, by John H. Schwarz, 1975 Feb. p. 61. RESONANCE PARTICLES, by R. D. Hill, 1963 Jan. p. 38. [290]
- RESONANT COMBUSTION IN ROCKETS, by J. George Sotter and Gary A. Flandro, 1968 Dec. p. 94. RESONANT VIBRATIONS OF THE EARTH, by Frank Press, 1965 Nov. p. 28.
- RESOURCES AND THE WORLD MIDDLE CLASS.
 WORLD, by Nathan Keyfitz, 1976 July p. 28.
 RESOURCES AVAILABLE FOR AGRICULTURE, THE, by
- Roger Revelle, 1976 Sept. p. 164. RESOURCES OF BINOCULAR PERCEPTION, THE, by John Ross, 1976 Mar. p. 80. [569]
- RESOURCES OF THE EARTH, THE ENERGY, by M. King Hubbert, 1971 Sept. p. 60. [663] RESOURCES OF THE U.S. HUMAN, 1951 Sept.
- issue RESOURCES, PLATE TECTONICS AND MINERAL, by Peter A. Rona, 1973 July p. 86, [909]
- RESOURCES REMOTE SENSING OF NATURAL, by Robert N. Colwell, 1968 Jan. p. 54. RESPIRATION ARTIFICIAL, by Stefan Jellinek.
- 1951 Jully 18.

 RESPIRATORY FAILURE ACUTE, by Peter M.

 Winter and Edward Lowenstein, 1969 Nov.
- RESPONSE TO ACETYLCHOLINE, THE, by Henry A. Lester, 1977 Feb. p. 106, [1352]

- RESPONSES TO HUMOR, by Jacob Levine, 1956 Feb. p. 31, [435]
- RESPRESSOR SYSTEM, A DNA OPERATOR-, by Tom Maniatis and Mark Ptashne, 1976 Jan. p. 64. [1333]
- RETICULAR FORMATION, THE, by J. D. French, 1957 May p. 54. [66]
- RETICULUM, THE SARCOPLASMIC, by Keith R. Porter and Clara Franzini-Armstrong, 1965 Mar. p. 72. [1007]
- RETINA, STABILIZED IMAGES ON THE, by Roy M. Pritchard, 1961 June p. 72. [466]
- RETINA. THE CONTROL OF SENSITIVITY IN THE, by Frank S. Werblin, 1973 Jan. p. 70. [1264]
- RETINAL PROCESSING OF VISUAL IMAGES, by Charles R. Michael, 1969 May p. 104. [1143]
- RETINEX THEORY OF COLOR VISION. THE, by Edwin H. Land, 1977 Dec. p. 108. [1392]
- RETRIEVAL INFORMATION STORAGE AND, by Ben-Ami Lipetz, 1966 Sept. p. 224.
- RETROLENTAL FIBROPLASIA, THE LESSON OF, by William A. Silverman, 1977 June p. 100. [1361]
- RETURN OF THE GRAY WHALE, THE, by Raymond M. Gilmore, 1955 Jan. p. 62.
- REVERSALS OF THE EARTH'S MAGNETIC FIELD, by Allan Cox, G. Brent Dalrymple and Richard R. Doell, 1967 Feb. p. 44.
- P. Glass and Bruce C. Heezen, 1967 July
- p. 32.
 REVIVAL BY LIGHT, by Albert Kelner, 1951 May p. 22.
- REVIVAL OF THERMOELECTRICITY, THE, by Abram F. Joffe, 1958 Nov. p. 31. [222]
- REVOLUTION IN ELECTRONICS, A, by Louis N.
 Ridenour, 1951 Aug. p. 12
- Ridenour, 1951 Aug. p. 13. RH AND THE RACES OF MAN, by William C. Boyd, 1951 Nov. p. 22.
- "RHESUS" BABIES, THE PREVENTION OF, by C. A.
- Clarke, 1968 Nov. p. 46. [1126] RHEUMATIC FEVER, by Earl H. Freimer and
- Maclyn McCarty, 1965 Dec. p. 66.
- RHIND PAPYRUS, THE, by James R. Newman, 1952 Aug. p. 24.
- RIBOSOME, NEUTRON-SCATTERING STUDIES OF THE, by Donald M. Engelman and Peter B. Moore, 1976 Oct. p. 44.
- RIBOSOMES, by Masayasu Nomura, 1969 October 28. [1157]
- RICKETS, by W. F. Loomis, 1970 Dec. p. 76. [1207]
- RICKETTSIAE, by Marianna R. Bovarnick, 1955 Jan. p. 74.
- RIDGED FIELDS, PRE-COLUMBIAN, by James J. Parsons and William M. Denevan, 1967 July v. 92.
- RIDGES. THE ORIGIN OF THE OCEANIC, by Egon Orowan, 1969 Nov. p. 102.
- RIFT IN THE OCEAN FLOOR, THE, by Bruce C. Heezen, 1960 Oct. p. 98.
- RIFT. THE FLOOR OF THE MID-ATLANTIC, by J. R. Heirtzler and W. B. Bryan, 1975 Aug. p. 78, [918]
- RIGHT HAND, LEFT HAND, by Lorus J. and Margery J. Milne, 1948 Oct. p. 46.
 - RIGHT. ON TELLING LEFT FROM, by Michael C. Corballis and Ivan L. Beale, 1971 Mar. p. 96. [535]
- RING DOVES. THE REPRODUCTIVE BEHAVIOR OF, by Daniel S. Lehrman, 1964 Nov. p. 48, [488] RIOTERS. A STUDY OF GHETTO, by Nathan S. Caplan and Jeffery M. Paige, 1968 Aug. p. 15.
- RIPENING OF FRUIT, THE, by J. B. Biale, 1954 May p. 40. [118]

RISL AND FALL OF ARABIA FELIX THE by Gus W Van Beek, 1969 Dec p 36 [653]

RISE OF A MAYA MERCHANT CLASS THE, by Jeremy A Sabloff and William L Rathje, 1975 Oct p 72

RISE OF A ZULU EMPIRE THE, by Max Gluckman, 1960 Apr p 157

RISE OF COAL TECHNOLOGY THE, by John R Harris, 1974 Aug p 92

RISE OF WATER IN PLANTS THE, by Victor A Greulach, 1952 Oct p 78

RIVER MLANDERS, by Luna B Leopold and W B Langbein, 1966 June p 60 [869]

RIVER PLAN THE MEKONG, by Gilbert F White, 1963 Apr p 49

RIVER THE CALEFACTION OF A, by Damel Merriman, 1970 May p 42 [1177] RIVER THE HISTORY OF A, by Raymond E

Janssen, 1952 June p 74
RIVERS IN THE MAKING, by H F Garner, 1967
Apr p 84

RNA DIRECTED DNA SYNTHESIS, by Howard M Temin, 1972 Jan p 24 [1239]

RNA MESSENGER, by Jerard Hurwitz and J J Furth, 1962 Feb p 41 [119]

RNA THE THREE DIMENSIONAL STRUCTURE OF TRANSFER, by Alexander Rich and Sung Hou Kim, 1978 Jan p 52 [1377]

ROADS AMERICA'S OLDEST, by Victor W von Hagen 1952 July p 17

ROADS CORRUGATE? WHY DO, by Keith B Mather, 1963 Jan p 128

ROBOT SYSTEMS, by James S Albus and John M Evans, Jr, 1976 Feb p 76

ROCKET AROUND THE MOON A, by Krafft A
Ehricke and George Gamow, 1957 June p 47
ROCKET ASTRONOMY, by Herbert Friedman, 1959
June p 52

ROCKETS, by Willy Ley, 1949 May p 30 ROCKETS NUCLEAR, by John J Newgard and Myron Levoy, 1959 May p 46

ROCKETS RESONANT COMBUSTION IN by J George Sotter and Gary A Flandro, 1968 Dec p 94

ROCKS AND THE GROWTH OF CONTINENTS THE OLDEST, by Stephen Moorbath, 1977 Mar p 92 [357]

ROCKS THE LUNAR, by Brian Mason, 1971 Oct p 48

RODENTS POPULATION CYCLES IN, by Judith H Myers and Charles J Krebs, 1974 June p 38 [1296]

ROLE OF CHLOROPHYLL IN PHOTOSYNTHESIS THE by Eugene I Rabinowitch and Govindjee, 1965 July p 74 [1016]

ROLE OF LIGHT IN PHOTOSYNTHESIS THE, by Daniel I Arnon, 1960 Nov p 104

ROLE OF MICROELECTRONICS IN COMMUNICATION THE, by John S Mayo 1977 Sept p 192 [382] ROLE OF MICROELECTRONICS IN DATA PROCESSING THE, by Lewis M Terman, 1977 Sept p 162

[380]
ROLE OF MUSIC IN GALILEO'S EXPERIMENTS THE
by Stillman Drake, 1975 June p 98

ROLE OF PUPIL SIZE IN COMMUNICATION THE, by Eckhard H Hess, 1975 Nov p 110 [567]

ROLE OF THE COMPUTER THE, by Louis N Ridenour, 1952 Sept p 116

RIDENOUR, 1952 SEPT P 110

ROLE OF THE HEARTBEAT IN THE RELATIONS

BETWEEN MOTHER AND INFANT THE by Lee

Salk, 1973 May p 24
ROLE OF WAN IN OCEANIC FOOD CHAINS THE, by
Andrew A Benson and Richard F Lee 1975
Mar p 76 [1318]

ROMAN BRITAIN A FRONTIER POST IN by Robin Birley 1977 Feb p 38 [692] ROMAN BRITAIN COUNTERI LITING IN, by George C Boon, 1974 Dec p 120

ROMAN CARTHAGE, by John H Humphrey and John Griffiths Pedley, 1978 Jan p 110 [704] ROMAN HYDRAULIC TECHNOLOGY, by Norman Smith, 1978 May p 154 [3009]

ROME THE JEWISH COMMUNITY OF, by Leslie C and Stephen P Dunn, 1957 Mar p 118
ROOM TEMPERATURE SUPERCONDUCTIVITY AT, by

W A Little, 1965 Feb p 21 Roots, by Emanuel Epstein, 1973 May p 48 [1271]

ROTARY ENGINES, by Wallace Chinitz, 1969 Feb p 90

ROTATING CHEMICAL REACTIONS, by Arthur T Winfree, 1974 June p 82

ROTATION IN HIGH ENERGY ASTROPHYSICS, by Franco Pacini and Martin J Rees, 1973 Feb p 98

ROTATION OF STARS THE, by Helmut A Abt, 1963 Feb p 46

ROTATION OF THE EARTH THE, by D E Smylle and L Mansinha, 1971 Dec p 80 [897] ROTATION OF THE SUN THE, by Robert Howard,

1975 Apr p 106 ROTATION ULTRAHIGH SPEED, by Jesse W Beams, 1961 Apr p 134

ROYAL HEMOPHILIA THE, by Victor A McKusick, 1965 Aug p 88

RUBBER, by Harry L Fisher, 1956 Nov p 74 RULING ENGINES, by Albert G Ingalls, 1952 June p 45

RUMFORD COUNT by Mitchell Wilson, 1960 Oct p 158

RUMINANTS THE METABOLISM OF, by Terence A Rogers, 1958 Feb p 34

RUN HOW ANIMALS by Milton Hildebrand, 1960 May p 148

RUNNING RECORDS, by M H Leitzke, 1952 Aug p 52

RURAL MARKET NETWORKS by Stuart Plattner, 1975 May p 66

S

SACRED SOURCE OF THE SEINE THE, by Simone Antoinette Deyts 1971 July p 65

SAGE GROUSE THE LEK MATING SYSTEM OF THE, by R Haven Wiley, Jr., 1978 May p 114 [1390] SAHARA WATER UNDER THE, by Robert P

Ambroggi, 1966 May p 21 SAILING YACHTS THE STUDY OF by Halsey C

Hereshoff and J N Newman, 1966 Aug p 60

SALAMIS HOW THEMISTOCLES PLANNED THE
BATTLE OF, by Michael H Jameson 1961 Mar
p 111

SALMON THE HOMING by Arthur D Hasler and James A Larsen 1955 Aug p 72 [411]

SALMON THE SWIMMING ENERGETICS OF by J R
Brett, 1965 Aug p 80 [1019]

SALPA, by N J Bernil 1961 Jan p 150 SALT AND RAIN by A H Woodcock, 1957 Oct p 42 [850]

SALT FRESH WATER FROM, by David S Jenkins 1957 Mar p 37

SALTGLANDS by Knut Schmidt-Nielsen 1959

Jan p 109

SALT LOVING BACTERIA THE PURPLE MEMBRANE OF, by Walther Stoeckenius 1976 June p 38 [1340]

SALT NEGOTIATIONS THE, by Herbert Scoville Jr 1977 Aug p 24 [696]

SALT THE SOCIAL INFLUENCE OF, by M. R. Bloch 1963 July p. 88 SALT WATER ARGRICULTURE, by Hugo Boyko 1967 Mar p 89

SALT WHY THE SEA IS, by Ferren MacIntyre, 1970 Nov p 140 [893]

SAMARITANS THE, by Shemaryahu Talmon 1977 Jan p 100 [690]

SAN ANDREAS FAULT THE, by Don L Anderson 1971 Nov p 52 [896]

SANCTUARY OF ARTEMIS AT BRAURON THE, by John Papadimitriou, 1963 June p 110 SAND, by Ph H Kuenen, 1960 Apr p 94

SAND DUNE THE LIFE OF A, by William H Amos 1959 July p 91

SAND WASPS OF AUSTRALIA THE, by Howard E Evans and Robert W Matthews, 1975 Dec p 108

SAP MOVES IN TREES HOW, by Martin H Zimmermann, 1963 Mar p 132 [154]

SARCOPLASMIC RETICULUM THE, by Keith R
Porter and Clara Franzini Armstrong 1965
Mar p 72 [1007]

Sardinia a Carthaginian fortress in, by Sabatino Moscati, 1975 Feb p 80

SARDINIA THE PROTO CASTLES OF, by Giovanni Lilliu, 1959 Dec p 62

SARDIS EXCAVATIONS AT, by George M A Hanfmann, 1961 June p 124

SARGASSO SEA THE, by John H Ruyther, 1956
Jan p 98

SATELLITE AS A RESEARCH INSTRUMENT THE ARTIFICIAL, by James A Van Allen, 1956 Nov p 41

SATELLITE CELLS IN THE NERVOUS SYSTEM by Holger Hyden, 1961 Dec p 62 [134]

SATELLITE COMMUNICATIONS GLOBAL, by Burton I Edelson, 1977 Feb p 58 [353]

SATELLITE I OBSERVATIONS OF, by Fred L Whipple and J Allen Hynek 1957 Dec p 37 SATELLITE PROJECT THE by Homer E Newell Jr., 1955 Dec p 29

SATELLITES AND THE EARTH'S ATMOSPHERE.
ARTIFICIAL, by Robert Jastrow, 1959 Aug
p 37 [851]

SATELLITES AND THE THEORY OF RELATIVITY
ARTIFICIAL by V L Ginzburg 1959 May
p 149

SATELLITES BY RADIO TRACKING by John T Mengel and Paul Herget, 1958 Jan p 23 SATELLITES COMMUNICATION by John R Pierce

1961 Oct p 90
SATELLITES OF JUPITER THE GALILEAN by Dale P
Cruikshank and David Morrison 1976 May
p 108

SATELLITES II WEATHER by Arthur W Johnson 1969 Jan p 52

SATELLITES WEATHER, by Moris Neiburger and Harry Wexler 1961 July p 80

SCANNING ELECTRON MICROSCOPE VHIGH RESOLUTION by Albert V Crewe 1971 Apr p 26

SCANNING ELECTRON MICROSCOPE, THE by Thomas E Everhart and Thomas L Hayes 1972 Jan p 54

1972 Jan p 54 SCARS OF HUMAN EVOLUTION THE by Wilton M Krogman 1951 Dec p 54 [632]

SCATTERING HIGH ENERGY by Vernon D Birger and David B Cline 1967 Dec p 76

SCHEDULING THE COMBINATORIAL MATHEMATICS OF by Ronald L. Graham 1978 Mar p. 124 [3001]

SCHIZOPHRENIA by Don D. Jackson. 1962 Aug. p. 65 [468]

SCHIZOTHREND AND CULTURE by Marvin K Opler 1957 Aug p 103

SCHIZOTHRESTS SOSTRESS by Hudson Hougland 1949 July p 44

- schizophrenia, psychotherapy for, by Don D Jackson, 1953 Jan p 58 [447]
- SCHIZOPHRENIC ART A CASE STUDY, by Bruno Bettelheim, 1952 Apr p 30 SCHNIDT THE BIG, by Albert G Wilson, 1950
- Dec p 34 school, the Medical, by Robert H Ebert, 1973
- Sept p 138
- schooling of fishes, the, by Evelyn Shaw, 1962 June p 128 [124]
- SCIENCE AGE OF, 1950 Sept issue SCIENCE, COSMOLOGY AND, by Herbert Dingle 1956 Sept p 224
- SCIENCE FOUNDATION THE NEW, by M H
 Trytten, 1950 July p 11
- SCIENCE, FUNDAMENTAL QUESTIONS IN, 1953 Sept issue
- SCIENCE FUNDAMENTAL QUESTIONS IN, by Warren Weaver, 1953 Sept p 47
- SCIENCE IN THE ART MUSEUM, by Rutherford J Gettens, 1952 July p 22
- SCIENCE IN THE U.S., THE SUPPORT OF, by Dael Wolfle, 1965 July p 19
- SCIENCE INNOVATION IN, 1958 Sept issue
 SCIENCE MICROELECTRONICS AND COMPUTER, by
 Ivan E. Sutherland and Carver A. Mead, 1977
 Sept. p. 210 [383]
- SCIENCE, PEER REVIEW AND THE SUPPORT OF by Stephen Cole, Leonard C Rubin and Jonathan R Cole, 1977 Oct p 34 [698]
- SCIENCE POLICY A NATIONAL, by Chester I
 Barnard, 1957 Nov p 45
 SCIENCE POLICY IN THE USSR., by R W Davies
- and R. Amann, 1969 June p 19
 SCIENCE TEACHING A CRISIS IN, by Fletcher G
- Watson, 1954 Feb p 27
 SCIENCE TEXTBOOK CONTROVERSIES, by Dorothy Nelkin, 1976 Apr p 33
- SCIENCE THE AGE OF 1900-1950, by J R
 Oppenheimer, 1950 Sept p 20
- SCIENCE THE ENCOURAGEMENT OF, by Warren Weaver, 1958 Sept p 170
- SCIENCE THE USES OF COMPUTERS IN by Anthony
 G Oettinger 1966 Sept p 160
- SCIENTIFIC DISCOVERY PREMATURITY AND UNIQUENESSIN, by Gunther S Stent 1972 Dec p 84 [1261]
- SCIENTIFIC EXPERIMENTS OF MARINER IV THE, by Richard K. Sloan 1966 May p. 62
- SCIENTIFIC NUMISMATICS by D D Kosambi 1966 Feb p 102
- SCIENTIFIC REVOLUTION THE, by Herbert
 Butterfield 1960 Sept p 173
- SCIENTISTS by M H Trytten, 1901 Sept p 71 SCIENTISTS. A PSYCHOLOGIST EXAMINES 64
- FMINENT by Anne Roe, 1952 Nov p 21 SCIENTISTS DIFFERENT ARE, by Lewis M Terman 1955 Jan p 25 [437]
- SCIENTISTS THE ORIGINS OF US by H B
 Goodrich R H Knapp and George A W
 Bochm 1951 July p 15
- SCINTILLATION COUNTERS by George B Collins 1953 Nov p 36
- SCOPLS TRIAL A WITNESS AT THE, by Fay Cooper Cole 1929 Jan p 120
- SCORIONS FALSE, by Theodore H Savory 1966
 Mar p 95 [1039]
- SCRI W WORM FLY THE ERADICATION OF THE, by Edward F Knipling, 1960 Oct p 54 SCYTHEMS FROZEN TOMBS OF THE, by M 1
- Artamonov 1965 May p 100 SEV NIMAL SOLNDS IN THE, by Marie Poland Fish 1956 Apr p 93
- SIA TOOD FROM THE, by Gordon A. Riley, 1949 Oct p. 16
- M MIOT BRINES, THE RED by Egon T Degens and David A Ross 1970 Apr p 32

- SEA IS SALT WHY THE, by Ferren MacIntyre, 1970 Nov p 104 [893]
- SEA LAMPREY THE, by Vernon C Applegate and James W Moffett, 1955 Apr p 36
 SEA LIVING UNDER THE, by Joseph B MacInnis,
- 1966 Mar p 24 [1036]
 SEA MICROBIAL LIFE IN THE DEEP, by Holger W
- Jannasch and Carl O Wirsen, 1977 June p 42 [926]
- SEA SEISMIC SHOOTING AT, by Maurice Ewing and Leonard Engel, 1962 May p. 116
- SEA THAT SPILLS INTO A DESERT THE, by Maurice A Garbell, 1963 Aug p 94
- SEA THE CHANGING LEVEL OF THE, by Rhodes W Fairbridge, 1960 May p 70
- SEA THE SARGASSO, by John H Ryther, 1956 Jan p 98
- SEA WAS DRAINED WHEN THE BLACK, by Kenneth J Hsu 1978 May p 52 [932]
- SEA FLOOR SPREADING, by J. R. Heirtzler, 1968
 Dec. p. 60 [875]
- SEAL THE WEDDELL, by Gerald L Kooyman, 1969 Aug p 100 [1156]
- SEARCH FOR BLACK HOLES THE, by Kip S Thorne 1974 Dec p 32
- SEARCH FOR EXTRATERRESTRIAL INTELLIGENCE, THE, by Carl Sagan and Frank Drake, 1975 May p 80 [347]
- SEARCH FOR LIFE ON MARS THE, by Norman H Horowitz, 1977 Nov p 52 [389]
- SEARCH FOR NEW FAMILIES OF ELEMENTARY
 PARTICLES THE, by David B Cline, Alfred K
 Mann and Carlo Rubbia, 1976 Jan p 44
- SEAS DEEP SCATTERING LAYERS THE, by Robert S Dietz, 1962 Aug p 44 [866]
- SEBEI THE BRIDEPRICE OF THE, by Walter Goldschmidt, 1973 July p 74
- "SECOND MESSENGERS IN THE BRAIN, by James A Nathanson and Paul Greengard 1977 Aug p 108 [1368]
- SECOND SOUND IN SOLID HELIUM, by Bernard Bertman and David J Sandiford, 1970 May p 92
- second thoughts on the Germ theory, by Rene J Dubos, 1955 May p 31
- SECONDARY RECOVERY OF PETROLEUM THE, by Noel de Nevers 1960 July p 34
- SECRETION THE FINAL STEPS IN, by Birgit Satir, 1975 Oct p 28 [1328]
- SEE, HOW WE REMEMBER WHAT WE, by Ralph Norman Haber 1970 May p 104 [528] SEE STRAIGHT LINES HOW WE, by John R. Platt, 1960 June p 121
- SEEING LIGHT AND COLOR, by Ralph M Evans, 1949 Aug p 52
- SEGREGATION METROPOLITAN, by Morton Grodzins, 1957 Oct. p 33
- segregation residential, by Karl E Tacuber 1965 Aug p 12 [626]
- SEINE, THE SACRED SOURCE OF THE, by Simone-Antoinette Deyts 1971 July p 65
- Antoinette Deyts 1971 July p 65 SEISMIC SHOOTING AT SEA, by Maurice Ewing and
- Leonard Engel, 1962 May p 116
 SELECTION HABITAT by Stanley C Wecker, 1964
 Oct p 109 [195]
- SELF DISCLOSURE A STUDY OF, by Sidney M Jourard, 1928 May p 77
- SELF ESTEEM STUDIES IN, by Stanley Cooper-Smith 1968 Feb p 96 [511]
- SELF REPRODUCING MACHINES, by L S Penrose 1959 June p 105 [74]
- SEMICONDUCTOR DEVICES AMORPHOUS, by David Adler, 1977 May p 36 [362]
- SEMICONDUCTOR PARTICLE DETECTORS, by Oleva-Myron Bilaniuk 1962 Oct p 78 [284] SEMICONDUCTOR SWITCHING AMORIHOUS, by H K Henisch, 1969 Nov p 30

- SEMICONDUCTOR TECHNOLOGY METAL OXIDE, by William C Hittinger, 1973 Aug p 48
- SEMICONDUCTORS LIGHT EMITTING by F F
 Morehead, Jr., 1967 May p 108
- SENSE DEFECTS INHERITED, by H Kalmus, 1952 May p 64 [406]
- SENSES AND THE MIND EARLY CONCEPTS OF THE by A C Crombie, 1964 May p 108 [184] SENSES THE CHEMICAL, by Hans Kalmus, 1958 Apr p 97
- SENSING OF CHEMICALS BY BACTERIA THE, by Julius Adler, 1976 Apr p 40 [1337]
- sensing of natural resources remote, by Robert N Colwell, 1968 Jan p 54
- SENSITIVITY IN THE RETINA. THE CONTROL OF, by Frank S Werblin, 1973 Jan p 70 [1264]
- sensory motor systems plasticity in, by Richard Held, 1965 Nov p 84 [494]
- SEPARATING SOLIDS WITH BUBBLES, by A M
 Gaudin, 1956 Dec p 99
- SERENGETI A GRAZING ECOSYSTEM IN THE, by Richard H V Bell, 1971 July p 86 [1228]
- SEROTONIN, by Irvin H Page, 1957 Dec p 52 SETTHEORY NON CANTORIAN, by Paul J Cohen
- and Reuben Hersh, 1967 Dec p 104 SETTLEMENT OF POLYNESIA THE, by Donald
- Stanley Marshall, 1956 Aug p 58
 SETTLEMENTS OF THE EUROPEAN PLAIN THE FINAL
- SETTLEMENTS OF THE EUROPEAN PLAIN THE FINA PALEOLITHIC, by Romuald Schild, 1976 Feb p 88
- SEITLEMENTS, SQUATTER, by William Mangin, 1967 Oct p 21
- SEX ATTRACTANT RECEPTOR OF MOTHS THE, by Dietrich Schneider, 1974 July p 36 [1299] SEX BACTERIAL VIRUSES AND, by Max and Mary
- Bruce Delbruck, 1948 Nov p 46
 SEX DIFFERENCES IN CELLS, by Ursula Mittwoch,
- 1963 July p 54 [161]
- SEX DIFFERENCES IN THE BRAIN, by Seymour Levine, 1966 Apr p 84 [498]
- SEX GAS OF HYDRA THE, by W F Loomis, 1959 Apr p 145
- sex. THE CONTROL OF, by Manuel J Gordon, 1958 Nov p 87
- SEX THE EVOLUTION OF, by Paul A Zahl, 1949
 Apr p 52
- SEXUAL LIFE OF A MOSQUITO THE, by Jack
- Colvard Jones, 1968 Apr p 108
 SEXUALITY IN BACTERIA, by Elie L Wollman and
 François Jacob, 1956 July p 109 [50]
- SEYFERT GALAXIES, by Ray J Weymann 1969
 Jan p 28
- SHAD THE MIGRATIONS OF THE, by William C Leggett, 1973 Mar p 92 [1268]
- SHADOWS AND DEPTH PERCEPTION, by Eckhard H
 Hess 1961 Mar p 138
- SHAGBARK HICKORY, by Donald Culross Peattie
 1948 Sept p 40
- SHAKESPEARE THE PHYSICIST, by Banesh Hoffmann, 1951 Apr p 52
- shale oil from, by H M Thorne, 1952 Feb p 15
- SHALES TAR SANDS AND OIL, by Noel de Nevers 1966 Feb p 21
- SHANIDAR CAVE, by Ralph S Solecki 1957 Nov p 58
- SHAPE, HOW LIVING CELLS CHANGE, by Norman K. Wessells 1971 Oct p. 76 [1233]
 SHAPE OF RAINDROPS THE, by James E.
- McDonald, 1954 Feb p 64
 SHAPE OF THE EARTH, THE, by Desmond King-Hele 1967 Oct p 67 [873]
- SHAPE OF THINGS, THE, by Cyril Stanley Smith, 1954 Jan p 58
- B Lambert, 1970 Jan p 58 [331]

- SHAPING OF TISSUES IN EMBRYOS THE, by Richard Gordon and Antone G Jacobson, 1978 June p 106 [1391]
- SHARKS THE BEHAVIOR OF, by Perry W Gilbert, 1962 July p 60 [127]
- SHARKS V MEN, by George A Llano, 1957 June p 54
- SHEET METAL, THE FORMING OF, by S S Hecker and A K Ghosh, 1976 Nov p 100
- SHELTER CENTERED SOCIETEY THE, by Arthur I Waskow, 1962 May p 46 [637] SHERRINGTON ON THE EYE, by Sir Charles S
- Sherrington, 1952 May p 30
 SHIP BURIAL, THE SUTTON HOO, by R L S Bruce-
- Mitford, 1951 Apr p 24 SHOCK TRAUMATIC, by Jacob Fine, 1952 Dec p 62
- SHOCK WAVES, by Otto Laporte, 1949 Nov p 14
 SHOCK WAVES AND HIGH TEMPERATURES, by
- Malcolm McChesney, 1963 Feb p 109 SHOCK WAVES IN SOLIDS, by Ronald K Linde and Richard C Crewdson, 1969 May p 82
- SHOCK WOUND, by Sanford Rosenthal, 1958
 Dec p 115
- SHORTEST RADIO WAVES THE, by Walter Gordy, 1957 May p 46
- SHORT TERM MEMORY, by Lloyd R Peterson, 1966 July p 90 [499]
- SHORT TERM MEMORY THE CONTROL OF, by Richard C Atkinson and Richard M Shiffrin, 1971 Aug p 82 [538]
- SHREWS, by Oliver P Pearson, 1954 Aug p 66 SIBERIA THE PETROGLYPHS OF, by A P
- Okladnikov, 1969 Aug p 74 [649] SICKLE CELL ANEMIA, by George W Gray, 1951 Aug p 56
- SICKLE CELL DISEASE, CYANATE AND, by Anthony Cerami and Charles M Peterson, 1975 Apr p 44 [1319]
- SICKLE CELLS AND EVOLUTION, by Anthony C Allison, 1956 Aug p 87 [1065]
- SIDE LOOKING AIRBORNE RADAR, by Homer Jensen, L C Graham, Leonard J Porcello and Emmett N Letth, 1977 Oct p 84 [386]
- SIEVES MOLECULAR, by D W Breck and J V Smith, 1959 Jan p 85
- SILENT MAJORITIES AND THE VIETNAM WAR, by Philip E Converse and Howard Schuman, 1970 June p 17 [656]
- SILICONES THE CHEMISTRY OF, by Eugene G Rochow, 1948 Oct p 50
- SIMPLE SIMON, by Edmund C Berkeley, 1950 Nov p 40
- SING HOW BIRDS, by Crawford H Greenewalt, 1969 Nov p 126 [1162]
- SINGING VOICE, THE ACOUSTICS OF THE, by Johan Sundberg, 1977 Mar p 82 [356]
- SINGLE HUMAN CELLS IN VITRO, by Theodore T Puck, 1957 Aug p 91 [33]
- SINGLE STRANDED DNA by Robert L Sinsheimer, 1962 July p 109 [128]
- SISTER EXCHANGE MARRIAGE, by Wendy James, 1975 Dec p 84
- SIZE AND SHAPE OF ATOMIC NUCLEI THE, by
 Michel Baranger and Raymond A Sorensen,
 1969 Aug p 58
- SIZE OF THE SOLAR SYSTEM THE, by James B McGuire, Eugene R Spangler and Lem Wong, 1961 Apr p 64
- Skin Color, Hormones and, by Aaron B Lerner, 1961 July p 98
- SKIN LIFE ON THE HUMAN, by Mary J Marples, 1969 Jan p 108 [1132]
- SKIN OF YOUR TEETH THE, by Reidar F Sognnaes, 1953 June p 38
- Sognnaes, 1953 June p 38 Skin the, by William Montagna, 1965 Feb p 56 [1003]

- skin transplants, by P B Medawar, 1957 Apr p 62
- Skin transplants and the Hamster, by Rupert E Billingham and Willys K Silvers, 1963 Jan p 118 [148]
- SKUA THE ANTARCTIC, by Carl R Eklund, 1964 Feb p 94
- Sky The Infrared, by G Neugebauer and Robert B Leighton, 1968 Aug p 50
- sky the radio, by John D Kraus, 1956 July p 32
- SKY THE SOUTHERN, by Bart J Bok, 1952 July p 46
- SAY THEX RAY, by Herbert W Schnopper and John P Delvaille, 1972 July p 26
- SLAVE GIRL FLED IF A, by Francis R Steele, 1948 June p 44
- SLAVERY ANCIENT, by William Linn Westermann, 1949 June p 40
- SLAVERY IN ANTS, by Edward O Wilson, 1975 June p 32 [1323]
- SLEEP, by Nathaniel Kleitman, 1952 Nov p 34 [431]
- SLEEP FACTOR THE, by John R Pappenheimer, 1976 Aug p 24 [571]
- SLEEP THE STATES OF, by Michel Jouvet, 1967 Feb p 62 [504]
- SLIME MOLDS COMMUNICATE, How, by John Tyler Bonner, 1963 Aug p 84 [164]
- SLING AS A WEAPON THE, by Manfred Korfmann, 1973 Oct p 34
- SLIPS OF THE TONGUE, by Victoria A Fromkin, 1973 Dec p 110 [556]
- SLOW DEATH OF A CITY THE, by Jotham Johnson, 1954 July p 66
- SLOW INAPPARAENT AND RECURRENT VIRUSES, by
- John J Holland, 1974 Feb p 32 [1289] SMALL ELECTRONIC CALCULATOR THE, by Eugene
- W McWhorter, 1976 Mar p 88 SMALL SYSTEMS OF NERVE CELLS, by Donald Kennedy, 1967 May p 44 [1073]
- SMALLER BODIES OF THE SOLAR SYSTEM THE, by William K Hartmann, 1975 Sept p 142
- SMALLEST LIVING CELLS THE, by Harold J Morowitz and Mark E Tourtellotte, 1962 Mar p 117 [1005]
- SMALLPOX BEFORE JENNER THE PREVENTION OF, by William L Langer, 1976 Jan p 112
- SMALLPOX THE ERADICATION OF, by Donald A Henderson, 1976 Oct p 25
- SMELL AND TASTE, by A J Haagen-Smit, 1952 Mar p 28 [404]
- SMELTING UNDER PRESSURE, by Leonard Engel, 1948 May p 54
- SMOG, by A M Zarem and W E Rand, 1952 May p 15
- SMOKING THE EFFECTS OF, by E Cuyler Hammond, 1962 July p 39
- SNAIL, THE EDIBLE, by Jean Cadart 1957 Aug p 113
- SNAKEBITE, by Sherman A Minton, Jr., 1957 Jan p 114
- SNAKES MOVE, How, by Carl Gans, 1970 June p 82 [1180]
- SNAKES, THE INFRARED RECEPTORS OF, by R Igor Gamow and John F Harris, 1973 May p 94 [1272]
- SNOW ANIMALS IN THE, by William O Pruitt, Jr, 1960 Jan p 60
- SNOW AVALANCHES, by Montgomery M. Atwater 1954 Jan p 26
- SNOW AVALANCHES THE CONTROL OF, by Edward R LaChapelle, 1966 Feb p 92 SNOW CRYSTALS, by Charles and Nancy Knight
- 1973 Jan p 100 SNOW CRYSTALS, THE GROWTH OF, by B J Mason, 1961 Jan p 120

- SOAP BUBBLES THE GEOMETRY OF SOAP FILMS AND by Frederick J Almgren, Jr, and Jean E. Taylor, 1976 July p 82
- SOAP MICROGRAPHS, 1952 Feb p 58 SOARING FLIGHT OF BIRDS THE, by Clarence D
- Cone, Jr., 1962 Apr p 130
- SOARING FLIGHT OF VULTURES THE, by C J Pennycuick, 1973 Dec p 102
- SOCIAL AMOEBAE AND MAMMALS HORMONES IN, by John Tyler Bonner, 1969 June p 78 SOCIAL AMOEBAE, DIFFERENTIATION IN, by John
- Tyler Bonner, 1959 Dec p 152 SOCIAL AMOEBAE, THE, by John Tyler Bonner,
- 1949 June p 44
 SOCIAL AND NONSOCIAL SPEECH, by Robert M
 Krauss and Sam Glucksberg, 1977 Feb
- p 100 [576]
 SOCIAL BEHAVIOR OF ARMY ANTS THE, by Howard

 P. Toposs 1072 New 270 [650]
- R Topoff, 1972 Nov p 70 [550] SOCIAL BEHAVIOR OF BURYING BEETLES, THE, by
- Lorus J Milne and Margery Milne 1976 Aug p 84 [1344]
- SOCIAL BEHAVIOR OF PRAIRIE DOGS, THE, by John A King, 1959 Oct p 128
- SOCIAL CHANGE, POVERTY AND, by Alexander H Leighton, 1965 May p 21 [634]
- SOCIAL DEPRIVATION IN MONKEYS, by Harry F and Margaret Kuenne Harlow, 1962 Nov p 136 [473]
- SOCIAL ENVIRONMENT COMMUNICATION AND by George Gerbner, 1972 Sept p 152 [679] SOCIAL INFLUENCE OF SALT THE, by M R Bloch
- 1963 July p 88 SOCIAL INFLUENCE OF THE POTATO THE, by Redcliffe N Salaman, 1952 Dec p 50 SOCIAL INSTINCTS, by Ashley Montagu, 1950
- Apr p 54 SOCIAL LIFE OF BABOONS THE, by S L Washburn and Irven DeVore, 1961 June p 62 [614] SOCIAL MEDICINE, by Brock Chisholm 1949 Apr
- p 11 SOCIAL ORDER OF CHICKENS THE, by A M Guhl
- 1956 Feb p 42 [471] SOCIAL ORDER OF JAPANESE MACAQUES THE, by G
- Gray Eaton, 1976 Oct p 96 [1345] SOCIAL ORDER OF TURKEYS THE, by C Robert Watts and Allen W Stokes, 1971 June p 112
- SOCIAL PATHOLOGY POPULATION DENSITY AND, by John B Calhoun, 1962 Feb p 139 [506] SOCIAL PHYSICS CONCERNING, by John Q
- Stewart, 1948 May p 20 SOCIAL POWER OF THE NEGRO THE, by James P
- Comer, 1967 Apr p 21 [633] SOCIAL PRESSURE, OPINIONS AND, by Solomon E Asch 1955 Nov p 31 [450]
- SOCIAL SCIENCES MATHEMATICS IN THE by Richard Stone, 1964 Sept p 168
- social spiders by J Wesley Burgess 1976 Mar p 100
- SOCIAL SYSTEM OF LIONS THE by Brian C R
 Bertram, 1975 May p 54
- SOCIETIES RAT, by Richard Lore and Kevin Flannelly 1977 May p 106 [577] SOCIETY THE ORIGIN OF, by Marshall D Sahlins
- 1960 Sept p 76 [602]
 SOCIETY THE SHELTER CENTURED by Arthur 1
- Waskow 1962 May p 46 [637] SOCIOLOGY OF NOBEL I RIZES THE by Harriet
- Zuckerman 1967 Nov p 25 soil by Charles E. Kellogg 1950 July p 30 [821]
- SOIL SYMMES SOIL POLLUTANTS AND BY CHILL A Edwards 1969 Apr p 88 [1138] SOIL CONDITIONERS BY C. L. W. Swanson 1953
- Aug p 36 soil pollutasis and soil animals by Clive A Edwards 1969 Apr p 88 [1138]

- SOIL THE LUNAR, by John A Wood, 1970 Aug
- soils Lateritic, by Mary McNeil, 1964 Nov p 96 [870]
- solar battery the, by Gordon Raisbeck, 1955 Dec p 102
- SOLAR CHROMOSPHERE, THE, by R. Grant Athay 1962 Feb p 50
- SOLAR CORONA THE, by Jay M Pasachoff, 1973 Oct p 68
- solar eclipses, a family of, by Richard M Sutton, 1954 Feb p 36.
- solar flares, by John W Evans, 1951 Dec p 17
- SOLAR PARTICLES AND COSMIC RAYS, by Kinsey A Anderson, 1960 June p 64
- SOLAR POWER, PROGRESS IN, by Harry Tabor, 1956 July p 97
- SOLAR SYSTEM BEYOND NEPTUNE, THE, by Owen Gingerich, 1959 Apr p 86
- SOLAR SYSTEM CRATERING IN THE, by W K Hartmann, 1977 Jan p 84 [351]
- SOLAR SYSTEM, LIFE OUTSIDE THE, by Su-Shu Huang, 1960 Apr p 55
- SOLAR SYSTEM THE, 1975 Sept issue SOLAR SYSTEM THE, by Carl Sagan, 1975 Sept
- p 22 SOLAR SYSTEM, THE AGE OF THE, by Harrison
- Brown, 1957 Apr p 80 [102] SOLAR SYSTEM THE AGE OF THE ELEMENTS IN THE,
- by John H Reynolds, 1960 Nov p 171 [253] SOLAR SYSTEM THE CHEMISTRY OF THE, by John S Lewis, 1974 Mar p 50
- SOLAR SYSTEM THE MOST PRIMITIVE OBJECTS IN THE, by Lawrence Grossman, 1975 Feb p 30 SOLAR SYSTEM THE ORIGIN AND EVOLUTION OF THE, by A G W Cameron, 1975 Sept p 32
- SOLAR SYSTEM, THE SIZE OF THE, by James B McGuire, Eugene R. Spangler and Lem Wong, 1961 Apr p 64
- SOLAR SYSTEM, THE SMALLER BODIES OF THE, by William K Hartmann, 1975 Sept p 142
- SOLAR WIND THE, by E N Parker, 1964 Apr p 66
- SOLAR WIND WAVES IN THE, by J T Gosling and A J Hundhausen, 1977 Mar p 36 [1353] SOLDIS THE DANCE OF THE, by John Updike, 1969 Jan p 130
- SOLID HELIUM, by Bernard Bertman and Robert A Guyer, 1967 Aug p 84
- SOLID NOBLE GASES, by Gerald L Pollack, 1966 Oct p 64
- solid stars, by Malvin A Ruderman, 1971 Feb p 24
- SOLID STATE OF POLYETHYLENE, THE, by Bernhard Wunderlich, 1964 Nov p 80
- SOLID STATE, POSITRONS AS A PROBE OF THE, by Werner Brandt, 1975 July p 34
- SOLID STATE, THE, by Sir Nevill Mott 1967 Sept
- SOLIDIFICATION OF CASTINGS THE, by Merton C Flemings, 1974 Dec p 88
- SOLIDIFICATION OF CEMENT THE, by D D Double and A Hellawell, 1977 July p 82 [370]
- SOLIDS FRACTURE IN by John J Gilman, 1960 Feb p 94
- SOLIDS NUCLEAR TRACKS IN by R. L. Fleischer, P B Price and R M Walker, 1969 June p 30 SOLIDS, FLASMAS IN by Raymond Bowers, 1963 Nov p 46
- SOLIDS, SHOCK WAYLS IN, by Ronald K. Linde and Richard C Crewdson, 1969 May p 82 SOLID-STATE SOURCE OF MICROWAVES, A, by
- Raymond Bowers 1966 Aug. p 22 SOLIDS THE CONDUCTION OF HEAT IN, by Robert L Sproull 1962 Dec p 92

- SOLIDS THE EFFECTS OF RADIATION ON, by Frederick Seitz and Eugene P Wigner 1956 Aug p 76 [245]
- SOLIDS THE NATURE OF, by Gregory H Wannier, 1952 Dec p 39 [249]
- SOLIDS ULTRAFAST PHENOMENA IN LIQUIDS AND, by R. R. Alfano and S L Shapiro, 1973 June p 42
- SOLIDS WITH BUBBLES SEPARATING, by A M Gaudin, 1956 Dec p 99
- SOLUTION OF THE FOUR COLOR MAP PROBLEM THE, by Kenneth Appel and Wolfgang Haken, 1977 Oct p 108 [387]
- SOLUTREAN CULTURE, THE, by Philip E L Smith, 1964 Aug p 86
- SOLVATED ELECTRON THE, by James L Dye, 1967 Feb p 76
- SOMATIC CELLS HYBRID, by Boris Ephrussi and Mary C Weiss, 1969 Apr p 26 [1137]
- SONAR, BIRD by Donald R. Griffin, 1954 Mar
- SONG THE NEUROBIOLOGY OF CRICKET, by David Bentley and Ronald R. Hoy, 1974 Aug p 34
- SONIC BOOM, by Herbert A Wilson, Jr., 1962 Jan p 36
- SOUND COMMUNICATION IN HONEYBEES, by Adrian M Wenner, 1964 Apr p 116 [181] SOUND THE REPRODUCTION OF, by Edward E David Jr., 1961 Aug p 72
- SOUNDS HEART by Victor A McKusick, 1956 May 120
- SOUNDS IN THE SEA, ANIMAL, by Marie Poland Fish, 1956 Apr p 93
- SOURCES OF AMBIGUITY IN THE PRINTS OF MAURITS C ESCHER, by Marianne L Teuber, 1974 July p 90 [560]
- SOURCES OF MUSCULAR ENERGY THE, by Rodolfo Margaria, 1972 Mar p 84 [1244]
- SOUTH AFRICA, THE MAN APES OF, by Wilton M Krogman, 1948 May p 16
- SOUTH AMERICA, EARLY MAN IN, by Edward P Lanning and Thomas C Patterson, 1967 Nov p 44
- SOUTH THE DEVELOPMENT OF THE US by Arthur Goldschmidt, 1963 Sept p 224
- SOUTHERN PINES THE GENETIC IMPROVEMENT OF, by Bruce J Zobel, 1971 Nov p 94
- SOUTHERN SKY THE, by Bart J Bok, 1952 July p 46
- SOYBEANS, by Folke Dovring, 1974 Feb p 14 SPACE, ARTIFICIAL PLASMA CLOUDS IN, by Gerhard Haerendel and Reimar Lust, 1968 Nov p 80 SPACE, ELECTRICAL PROPULSION IN, by Gabriel
- Giannini, 1961 Mar p 57 SPACE, ELECTRICITY IN, by Hannes Alfven, 1952 May p 26
- SPACE, "EMPTY", by H C van de Hulst, 1955 Nov p 72
- SPACE, FLIGHT AT THE BORDERS OF, by Heinz Haber, 1952 Feb p 20
- SPACE, HEAVY ELEMENTS FROM, by Edward P Ney, 1951 May p 26
- SPACE HYDRONYL RADICALS IN, by Brian J Robinson, 1965 July p 26
- SPACE IN A FINITE UNIVERSE, THE CURVATURE OF, by J J Callahan, 1976 Aug p 90
- SPACE' IS MAN ALONE IN, by Loren C Eiseley, 1953 July p 80
- SPACE, OBSERVATORIES IN, by Arthur I Berman, 1963 Aug. p 28
- SPACE ORGANIC MATTER FROM, by Brian Mason, 1963 Mar p 43
- SPACE PERCEPTION IN THE CHICK, by Eckhard H Hess, 1956 July p 71
- SPACE RE ENTRY FROM, by John V Becker, 1961 Jan p 49

- SPACE, THE ABSORPTION OF RADIO WAVES IN, by A E Lilley, 1957 July p 48
- SPACE THE CURVATURE OF, by P Le Corbeiller, 1954 Nov p 80
- SPACE, THE EARTH FROM, 1955 Sept p 109 SPACE, THE HUMAN BODY IN, by Heinz Haber,
- 1951 Jan p 16 SPACE TURBULENCE IN, by George Gamow, 1952 June p 26
- SPARK CHAMBER, THE, by Gerard K O'Neill, 1962 Aug p 36 [282]
- SPATIAL FREQUENCY CONTRAST AND, by Fergus W Campbell and Lamberto Maffei, 1974 Nov p 106 [1308]
- SPATIAL MEMORY, by David S Olton, 1977 June p 82 [578]
- SPECIFICITY OF ANTIBODIES THE, by S J Singer, 1957 Oct p 99
- SPECTROMETER, THE MASS, by Alfred O C Nier, 1953 Mar p 68 [256]
- SPECTROSCOPIES THE THREE, by Victor F Weisskopf, 1968 May 15
- SPECTROSCOPY FAST NEUTRON, by Lawrence Cranberg, 1964 Mar p 79
- SPECTROSCOPY LASER, by M S Feld and V S
- Letokhov, 1973 Dec p 69 SPECTROSCOPY MOSSBAUER, by R. H Herber,
- 1971 Oct p 86
- SPECTRUM OF THE AIRGLOW THE, by $\mathbf{M}_{\mathbf{F}}$ Ingham, 1972 Jan p 78
- SPEECH ATTENTION AND THE PERCEPTION OF, by Donald E Broadbent, 1962 Apr p 143 [467]
- SPEECH INFANT, by Orvis C. Irwin, 1949 Sept p 22 [417]
- SPEECH SOCIAL AND NONSOCIAL, by Robert M Krauss and Sam Glucksberg, 1977 Feb p 100 [576]
- SPEECH THE ORIGIN OF, by Charles F Hockett, 1960 Sept p 88 [603]
- SPEECH THE SYNTHESIS OF, by James L Flanagan, 1972 Feb p 48
- SPEED IMPACT HIGH, by A C Charters, 1960 Oct p 128
- SPEED OF LIGHT THE, by J H Rush, 1955 Aug p 62
- SPERM TRANSFER, UNORTHODON METHODS OF, by Lord Rothschild, 1956 Nov p 121
- SPIDER AND THE WASP THE, by Alexander Petrunkevitch, 1952 Aug p 20
- SPIDER WEBS, by Theodore H Savory, 1960 Apr p 114 SPIDER WEBS AND DRUGS, by Peter Witt, 1954
- Dec p 80 SPIDERS SOCIAL, by J Wesley Burgess, 1976 Mar
- "SPINAL" CATS WALK, by P S Shurrager, 1950
- Nov p 20
- SPIRAL STRUCTURE OF THE GALAXY THE, by W W Morgan, 1955 May 42
- SPLIT BRAIN IN MAN THE, by Michael S Gazzaniga, 1967 Aug p 24 [508]
- SPREAD OF THE BANTU LANGUAGE, THE, by D. W. Philipson, 1977 Apr p 106 [694]
- SPRUCE BALSAM AND BIRCH, by Donald Culross Peattie, 1948 Nov p 20
- SQUATTER SETTLEMENTS, by William Mangin
- 1967 Oct p 21
- SQUID THE, by H B Steinbach, 1951 Apr p 64 SQUID THE NERVE IMPULSE AND THE, by Richard Keynes, 1958 Dec p 83 [58]
- SQUIRRELS DESERT GROUND, by George A Bartholomew and Jack W Hudson, 1961 Not p 107
- ST NINIAN STHETREASURE OF, by R. L. S. Bruce-Mitford, 1960 Nov p 154
- STABILIZED IMAGES ON THE RETINA, by Roy M Pritchard, 1961 June p 72 [466]

- stains incriminating, by Charles E O'Hara and James W Osterburg, 1953 Feb p 58
- STAIRS THE DIMENSIONS OF, by James Marston Fitch, John Templer and Paul Corcoran, 1974 Oct p 82
- STANDARDS OF MEASUREMENT, by Allen V Asim, 1968 June p 50
- STAPHYLOCOCCI DEATH FROM, by Ian Maclean Smith, 1968 Feb p 84
- STAPHYLOCOCCUS PROBLEM THE, by Stuart Mudd, 1959 Jan p 41
- STARLIGHT BY PHOTOCELL MEASURING, by Joel Stebbins, 1952 Mar p 56
- starling ernest, by Ralph Colp, Jr, 1951 Oct p 56
- STARS AND COSMIC DISTANCES PULSATING, by Robert P Kraft, 1959 July p 48
- STARS DOUBLE, by Otto Struve, 1949 Oct p 42 STARS DYING, by Jesse L Greenstein, 1959 Jan p 46 [216]
- STARS ELECTRONIC PHOTOGRAPHY OF, by William A Baum, 1956 Mar p 81
- STARS EXPLODING, by Robert P Kraft, 1962 Apr p 54
- stars globular cluster, by Icko Iben, Jr, 1970 July p 26
- stars in contact, by O J Eggen, 1968 June p 34
- STARS IN GLOBULAR CLUSTERS X RAY, by George W Clark, 1977 Oct p 42 [385]
- stars pulsating, by John R Percy, 1975 June p 66
- STARS RADIO, by A C B Lovell, 1953 Jan p 17 STARS RADIO EMITTING FLARE, by Sir Bernard Lovell, 1964 Aug p 13
- stars solid, by Malvin A Ruderman, 1971 Feb p 24
- STARS SUBDWARF, by Geoffrey and E Margaret Burbidge, 1961 June p 111
- STARS THE BIRTH OF, by Bart J Bok, 1972 Aug p 48
- STARS THE BIRTH OF MASSIVE, by Michael Zeilik, 1978 Apr p 110 [3005]
- STARS THE COMPANIONS OF SUNLIKE, by Helmut A Abt, 1977 Apr p 96 [359]
- STARS THE ENERGY OF, by Robert E Marshal, 1950 Jan p 42
- STARS THE EVOLUTION OF, by Otto Struve, 1953
 Mar p 34
- STARS THE ROTATION OF, by Helmut A Abt, 1963 Feb p 46
- STARS THE YOUNGEST, by George H Herbig, 1967 Aug p 30
- STARS x RAY, by Riccardo Giacconi, 1967 Dec p 36
- STARS X RAY EMITTING DOUBLE, by Herbert
 Gursky and Edward P J van den Heuvel,
 1975 Mar p 24
- STARS YOUNG, by Adriaan Blaauw, 1956 Feb p 36
- STARVATION THE PHSYSIOLOGY OF, by Vernon R
 Young and Nevin S Scrimshaw, 1971 Oct
 p 14 [1232]
- STATE OF GENETICS THE, by A Buzzati-Traverso, 1951 Oct p 22
- STATE OF WATER IN RED CELLS THE, by Arthur K Solomon, 1971 Feb p 88 [1213]
- STATES OF SLEEP THE, by Michel Jouvet, 1967 Feb p 62 [504]
- STATISTICS, by Warren Weaver, 1952 Jan p 60 STATISTICS STEIN S PARADOX IN, by Bradley Efron and Carl Morris, 1977 May p 119 [363]
- STATUS OF INTERFERON THE, by Derek C Burke, 1977 Apr p 42 [1356]
- STEAD'S STATE OF THE EARTH S CRUST ATMOSPHERE AND OCEANS, THE, by Raymond Siever, 1974 June p. 72 [914]

- STEADY STATE UNIVERSE, THE, by Fred Hoyle, 1956 Sept p 157
- STEAM ENGINE, THE ORIGINS OF THE by Eugene S Ferguson, 1964 Jan p 98
- STEAM TURBINES, by Walter Hossli, 1969 Apr p 100
- STEEL THE CONTINUOUS CASTING OF, by Leonard V Gallagher and Bruce S Old, 1963 Dec p 74
- STEEL THE GEOGRAPHY OF, by George H T Kimble, 1952 Jan p 44
- STEEL THE STRENGTH OF, by Victor F Zackay, 1963 Aug p 72
- STEELMAKING OXYGEN IN, by Joseph K Stone, 1968 Apr p 24
- STEELS STRONG AND DUCTILE, by Earl R Parker and Victor F Zakay, 1968 Nov p 36
- and Victor F Zakay, 1968 Nov p 36
 STEIN S PARADOX IN STATISTICS, by Bradley Efron
 and Carl Morris, 1977 May p 119 [363]
- STELLAR ABERRATION THE DISCOVERY OF, by Albert B Stewart, 1964 Mar p 100
- STELLAR DISTANCES A NEW SCALE OF, by O C Wilson, 1961 Jan p 107 [254]
- STELLAR ORIENTATION SYSTEM OF A MIGRATORY BIRD THE, by Stephen T Emlen, 1975 Aug p 102 [1327]
- STELLAR POPULATIONS, by Geoffrey and E Margaret Burbidge, 1958 Nov p 44 [203]
- STELLARATOR THE, by Lyman Spitzer, Jr., 1958 Oct p 28 [246]
- STEPS TOWARD DISARMANENT, by P M S
 Blackett, 1962 Apr p 45
- STEREOCHEMICAL THEORY OF ODOR THE, by John E Amoore, James W Johnston, Jr, and Martin Rubin, 1964 Feb p 42
- STEROID HORMONES THE RECEPTORS OF, by Bert W O'Malley and William T Schrader, 1976 Feb p 32 [1334]
- STEROIDS, by Louis F. Fieser, 1955 Jan. p. 52 [8] STICK AND SLIP, by Ernest Rabinowicz, 1956 May p. 109
- STICKLEBACK THE CURIOUS BEHAVIOR OF THE, by N Tinbergen, 1952 Dec p 22 [414]
- stimulation in infancy, by Seymour Levine, 1960 May p 80 [436]
- STIMULATION OF THE BRAIN CHEMICAL, by Alan E Fisher, 1964 June p 60 [485]
- stimuli how cells receive, by William H
 Miller, Floyd Rathiff and H K Hartline, 1961
 Sept p 222 [99]
- STIRLING ENGINE THE, by Graham Walker, 1973 Aug p 80
- STIRLING REFRIGERATION CYCLE, THE, by J W L Kohler, 1965 Apr p 119
- STOCKHOLM A PLANNED CITY, by Goran Sidenbladh, 1965 Sept p 106
- STOMACH DOES NOT DIGEST ITSELF WHY THE, by
 Horace W Davenport, 1972 Jan p 86 [1240]
 STOMATOPODS, by Roy L Caldwell and Hugh
- Dingle, 1976 Jan p 80 STONE AGE CAMPSITE AT THE GATEWAY TO AMERICA A, by Douglas D Anderson, 1968
- AMERICA A, by Douglas D Anderson, 1966

 June p 24

 STONE AGE, FOREST CLEARANCE IN THE, by
- Johannes Iversen, 1956 Mar p 36 STONE AGE HUNTERS CAMP A, by Grahame Clark,
- 1952 May 20 STONE AGE MAN ON THE NILE, by Philip E. L
- Smith, 1976 Aug p 30 STONE AGE MATHEMATICS, by Dirk J Struik, 1948
- Dec p 44 stone the preservation of, by Lai Gaun, 1978 June p 126 [3012]
- STONE TOOLS AND HUMAN BEHAVIOR, by Lewis R and Sally R Bintford, 1969 Apr p 70 [643] STONEHENGE, by Jacquetta Hawkes, 1953 June p 25

- STONES HUMAN, by Kathleen Lonsdale, 1968 Dec p 104
- STORAGE AND RETRIEVAL INFORMATION, by Ben Ami Lipetz, 1966 Sept p 224
- STORAGE RINGS PARTICLE, by Gerard K. O'Neill, 1966 Nov p. 107 [323]
- STORMS DUST, by Sherwood B Idso, 1976 Oct p 108
- STRAIGHT LINE, THE, by Morris Kline, 1956 Mar p 104
- STRAIGHT LINES HOW WE SEE, by John R Platt, 1960 June p 121
- STRANGE CASE OF THE BLIND BABIES THE, by Theodore H Ingalls, 1955 Dec p 40
- STRANGE LIFE OF CHARLES BABBAGE, THE, by Philip and Emily Mornson, 1952 Apr p 66
- STRANGLER TREES, by Theodosius Dobzhansky and Joao Murca-Pires, 1954 Jan p 78 STRATEGIC MISSILES THE ACCURACY OF, by Kosta
- Tsipis, 1975 July p 14
 STREAM POLLUTION, by Rolf Eliassen, 1952 Mar
- p 17 STREAMER CHAMBER, THE, by David E Youni,
- 1967 Oct p 38
- STRENGTH OF STEEL THE, by Victor F Zackay, 1963 Aug p 72
- STRESS AND BEHAVIOR, by Seymour Levine, 1971

 Jan p 26 [532]
- STRESS AND DISEASE, PSYCHOLOGICAL FACTORS IN by Jay M Weiss, 1972 June p 104 [544] STRESS IN COMBAT, by Stanley W Davis, 1956 Mar p 31
- STRESS-CORROSION FAILURE, by Peter R Swann 1966 Feb p 72
- STRIP MINING OF WESTERN COAL THE, by
- Genevieve Atwood, 1975 Dec p 23 STROKE MICROVASCULAR SURGERY FOR, by Jack M. Feyn, 1978 Apr. p. 58 [1385]
- M Fein, 1978 Apr p 58 [1385] STRONG AND DUCTILE STEELS, by Earl R Parker
- and Victor F Zackay, 1968 Nov p 36 STRONG MAGNETIC FIELDS, by Harold P Furth, Morton A Levine and Ralph W Waniek, 1958 Feb p 28
- strongly interacting particles, by Geoffrey F Chew, Murray Gell-Mann and Arthur H Rosenfeld, 1964 Feb p 74 [296]
- STRUCTURAL ANALYSIS OF GOTHIC CATHEDRALS
 THE, by Robert Mark, 1972 Nov p 90
- STRUCTURE AND FUNCTION OF ANTIBODIES THE by Gerald M. Edelman, 1970 Aug. p. 34 [1185]
- STRUCTURE AND FUNCTION OF HISTOCOMPATIBILITY ANTIGENS THE, by Bruce A Cunningham, 1977 Oct p 96 [1369]
- STRUCTURE AND HISTORY OF AN ANCIENT PROTEIN THE, by Richard E. Dickerson, 1972 Apr p. 58 [1245]
- STRUCTURE OF A PROTEIN MOLECULE. THE THREL DIMENSIONAL, by John C Kendrew 1961 Dec p 96 [121]
- STRUCTURE OF AN ENZYME MOLECULE, THE THREE DIMENSIONAL, by David C. Phillips, 1966 Nov p. 78 [1055]
- STRUCTURE OF ANTIBODIES THE, by R R Porter 1967 Oct p 81 [1083]
- STRUCTURE OF CELL MEMBRANES THE, by C Fred
- Fox, 1972 Feb p 30 [1241] STRUCTURE OF CRYSTAL SURFACES THE, by Lester
- H Germer, 1965 Mar p 32 STRUCTURE OF DEVELOPMENT THE, by Wassily
- W Leontief, 1963 Sept p 148 [617] STRUCTURE OF EMISSION NEBULAS THE, by Joseph S Miller, 1974 Oct p 34
- STRUCTURE OF LIQUIDS, THE, by J D Bernal 1960 Aug p 124

- STRUCTURE OF PROTEIN MOLECULES THE, by Linus Pauling, Robert B Corey and Roger Hayward, 1954 July p 51 [31]
- STRUCTURE OF PROTEINS THE CHEMICAL, by William H Stein and Stanford Moore, 1961 Feb p 81
- STRUCTURE OF THE HEREDITARY MATERIAL, THE, by F H C Crick, 1954 Oct p 54
- STRUCTURE OF THE INFLUENZA VIRUS THE, by SIR Macfarlane Burnet, 1957 Feb p 37
- STRUCTURE OF THE INTERSTELLAR MEDIUM THE, by Carl Heiles, 1978 Jan p 74 [394]
- STRUCTURE OF THE NUCLEUS THE, by Maria G Mayer, 1951 Mar p 22 [228] STRUCTURE OF THE PROTON AND THE NEUTRON
- THE, by Henry W Kendall and Wolfgang Panofsky, 1971 June p 60
- STRUCTURE OF THE US ECONOMY THE, by Wassily W Leontief, 1965 Apr p 25 [624]
- STRUCTURE OF TRANSFER RNA THE THREE DIMENSIONAL, by Alexander Rich and Sung Hou Kim, 1978 Jan p 52 [1377]
- STRUCTURE OF VIRUSES THE, by R W Horne, 1963 Jan p 48
- STUDIES IN CORROSION, by G H Cartledge, 1956 May 35
- STUDIES IN SELF ESTEEM, by Stanley Cooper-Smith, 1968 Feb p 96 [511]
- STUDY IN FERTILITY CONTROL, A, by Bernard Berelson and Ronald Freedman, 1964 May p 29 [621]
- STUDY IN THE EVOLUTION OF BIRDS A, by H N Southern, 1957 May p 124
- STUDY OF ASPIRATIONS A, by Hadley Cantril 1963 Feb p 41
- STUDY OF ATTITUDES A, by Samuel A Stouffer, 1949 May p 11
- STUDY OF GHETTO RIOTERS A, by Nathan S Caplan and Jeffery M Paige, 1968 Aug. p 15 [638]
- STUDY OF SAILING YACHTS THE, by Halsey C Herreshoff and J N Newman, 1966 Aug p 60
- STUDY OF SELF DISCLOSURE, A, by Sidney M Jourard, 1958 May p 77
- STUDY OF THE ANTI SCIENTIFIC ATTITUDE. A by Bernard and Judith Mausner, 1955 Feb p 35 [453]
- STUDY OF VALUES A, by Evon Z Vogt and John M Roberts 1956 July p 25
- SUBDUCTION OF THE LITHOSPHERE, THE, by M Nafi Toksoz, 1975 Nov p 88 [919]
- SUBDWARF STARS by Geoffrey and E Margaret Burbidge, 1961 June p 111
- SUBJECTIVE CONTOURS by Gaetano Kanizsa, 1976 Apr p 48 [570]
- SUBJECTIVE PROBABILITY, by John Cohen, 1957 Nov p 128 [427]
- SUBMARINE CANYONS, by Francis P Shepard, 1949 Apr p 40
- SUBMARINE CANYONS THE ORIGIN OF, by Bruce C Heezen 1956 Aug p 36
- SUBMARINES AND NATIONAL SECURITY MISSILE, by Herbert Scoville, Jr 1972 June p 15 [344] SUBSIDENCE GEOLOGICAL, by Sullivan S
- Marsden Jr and Stanley N Davis, 1967 June p 93
- SUBSISTENCE HERDING IN LGANDA, by Rada and Neville Dyson-Hudson, 1969 Feb p 76
- SUICIDE, by Don D. Jackson, 1954 Nov. p. 88 SULFUR by Christopher J. Pratt. 1970 May. p. 62
- SUMERIAN "I ARMER S ALMANAC", by Samuel Noah Kramer, 1951 Nov p 54
- SUMERIANS, THE, by Samuel Noah Kramer, 1957 Oct p 70

- SUN CLIMATE AND THE CHANGING, by Ernst J Opik, 1958 June p 85 [835]
- SUN CLOUDS AND RAIN CLOUDS, by Walter Orr Roberts, 1957 Apr p 138 [849]
- SUN CORPUSCLES FROM THE, by Walter Orr Roberts, 1955 Feb p 40
- SUN HOT SPOTS IN THE ATMOSPHERE OF THE, by Harold Zirin, 1958 Aug p 34
- SUN MAGNETIC FIELDS ON THE QUIET, by William C Livingston, 1966 Nov p 54
- SUN NAVIGATION OF ANIMALS THE, by Hans Kalmus, 1954 Oct p 74
- SUN NEUTRINOS FROM THE, by John N Bahcall, 1969 July p 28
- SUN POWER FROM THE, by Eugene Ayres, 1950 Aug p 16
- SUN RADIO WAVES FROM THE, by J P Wild, 1955 June p 40
- SUN THE, by Armin J Deutsch, 1948 Nov p 26 SUN THE, by E N Parker, 1975 Sept p 42
- SUN THE MAGNETISM OF THE, by Horace W Babcock, 1960 Feb p 52
- SUN THE ROTATION OF THE, by Robert Howard, 1975 Apr p 106
- SUNBURN, by Farrington Daniels, Jr., Jan C van der Leun and Brian E Johnson, 1968 July p 38
- SUNLIKE STARS THE COMPANIONS OF, by Helmut A Abt 1977 Apr p 96 [359]
- SUN S ATMOSPHERE, THE CIRCULATION OF THE, by Victor P Starr and Peter A Gilman, 1968 Jan p 100
- SUN S ATMOSPHERE, THE EARTH IN THE, by Sydney Chapman, 1959 Oct p 64
- SUNSPOTS THE CASE OF THE MISSING, by John A Eddy, 1977 May p 80 [925]
- SUNSPOTS TREE RINGS AND, by J H Rush, 1952
 Jan p 54
- SUPERCONDUCTING COMPUTERS, by William B
 Ittner III and C J Kraus, 1961 July p 124
 SUPERCONDUCTING MAGNETS, by J E Kunzler
- and Morris Tanenbaum, 1962 June p 60 [279]
- SUPERCONDUCTING MAGNETS ADVANCES IN, by William B Sampson, Paul P Craig and Myron Strongin, 1967 Mar p 114
- SUPERCONDUCTIVITY, by B T Matthias, 1957 Nov p 92 [227]
- SUPERCONDUCTIVITY APPLICATIONS OF, by
 Theodore A Buchhold, 1960 Mar p 74 [270]
 SUPERCONDUCTIVITY AT HIGH PRESSURE, by N B
- Brandt and N I Ginzburg, 1971 Apr p 83
 SUPERCONDUCTIVITY AT ROOM TEMPERATURE, by
- W A Little, 1965 Feb p 21 SUPERCONDUCTORS FOR POWER TRANSMISSION, by
- Donald P Snowden, 1972 Apr p 84 SUPERCONDUCTORS NEW, by T H Geballe, 1971 Nov p 22
- SUPERCONDUCTORS QUANTUM EFFECTS IN, by R
 D Parks 1965 Oct p 57
- SUPERCONDUCTORS, THE MAGNETIC STRUCTURE OF, by Uwe Essmann and Herman Trauble, 1971 Mar p 74
- SUPERDENSE WATER, by Boris V Derjaguin, 1970 Nov p 52
- SUPERFLUID HELIUM QUANTIZED VORTEX RINGS
 IN, by F Reif, 1964 Dec p 116
- SUPERFLUID HELIUM 3, by N David Mermin and David M Lee, 1976 Dec p 56
- SUPERFLUIDITY, by Eugene M Lifshitz, 1958

 June p 30 [224]
- SUPERFLUIDITY AND "QUASI PARTICLES", by F Reif, 1960 Nov p 138 [272]
- SUPERGALAXY THE, by Gerard de Vaucouleurs, 1954 July p 30

- SUPERGRAVITY AND THE UNIFICATION OF THE LAWS OF PHYSICS, by Daniel Z Freedman and Peter van Nieuwenhuizen, 1978 Feb p 126 [397]
- SUPERHARD MATERIALS, by Francis P Bundy, 1974 Aug p 62
- SUPERIOR COLLICULUS OF THE BRAIN THE, by Barbara Gordon, 1972 Dec p 72 [553]
- SUPERNOVA REMNANTS, by Paul Gorenstein and Wallace Tucker, 1971 July p 74
- SUPERNOVA REMNANTS X RAYS FROM, by Philip A Charles and J Leonard Culhane, 1975 Dec p 38
- SUPERNOVAE, by George Gamow, 1949 Dec
- SUPERNOVAS, HISTORICAL, by F Richard
 Stephenson and David H Clark, 1976 June
 p 100
- SUPERNOVAS IN OTHER GALAXIES, by Robert P Kirshner, 1976 Dec p 88
- SUPERPHÉNIX A FULL SCALE BREEDER REACTOR, by Georges A Vendryes, 1977 Mar p 26 [355]
- SUPERPLASTIC METALS, by H W Hayden, R C Gibson and J H Brophy, 1969 Mar p 28
- SUPERSONIC TRANSPORT THE, by R. L.
 Bisplinghoff, 1964 June p. 25
- SUPPORT OF SCIENCE IN THE U.S. THE, by Dael Wolfle, 1965 July p. 19
- SURFACE COLOR, THE PERCEPTION OF, by Jacob Beck, 1975 Aug p 62 [565]
- SURFACE INSIDE OUT TURNING A, by Anthony Phillips, 1966 May p 112
- SURFACE OF MARS, THE, by Raymond E
 Arvidson, Alan B Binder and Kenneth L
- Jones, 1978 Mar p 76 [399] SURFACE OF MARS, THE, by Robert B Leighton, 1970 May p 26
- SURFACE OF METALS THE FERMI, by A R Mackintosh, 1963 July p 110
- SURFACE OF THE MOON THE, by Albert R Hibbs, 1967 Mar p 60
- SURFACE TENSION IN THE LUNGS, by John A Clements, 1962 Dec p 120
- SURFACE WAVES ACOUSTIC, by Gordon S Kino and John Shaw, 1972 Oct p 50
- SURFACES THE STRUCTURE OF CRYSTAL, by Lester H Germer, 1965 Mar p 32
- SURGERY BLOOD-VESSEL, by Michael E DeBakey and Leonard Engel, 1961 Apr p 88
- SURGERY BY LASER CELL, by Michael W Berns and Donald E Rounds, 1970 Feb p 98 [1170]
- SURGERY FOR CORONARY DISEASE, by Donald B Effler, 1968 Oct p 36
- SURGERY FOR STROKE MICROVASCULAR, by Jack M Fein, 1978 Apr p 58 [1385]
- SURGERY HEART, by Frank G Slaughter, 1950
 Jan p 14
- SURGERY OPEN HEART, by C Walton Lillehei and Leonard Engel, 1960 Feb p 76 SURGICAL CUTTING, by Sir Heneage Ogilvie, 1951
- Nov p 62 SURGICAL INTERVENTION, by Charles G Child III, 1973 Sept p 90
- SURGICAL REPLACEMENT OF THE HUMAN KNEE JOINT THE, by David A Sonstegard, Larry S Matthews and Herbert Kaufer, 1978 Jan p 44 [1378]
- SURGICAL STAPLING, by R. F. Mallina, Theodore R. Miller, Philip Cooper and Stanley G. Christie, 1962 Oct. p. 48
- SURGICAL STITCHING, by Sir Heneage Ogilvie, 1950 Nov p 44
- SUTTON HOO SHIP BURIAL THE, by R. L. S. Bruce-Mitford, 1951 Apr. p. 24

SWIFT THE HOME LIFE OF THE, by David and Elizabeth Lack, 1954 July p 60

SWIMMING ENERGETICS OF SALMON TIN, by J R Brett, 1965 Aug p 80 [1019]

SWISS LAKE DWELLERS PREHISTORIC, by Hansjurgen Muller-Beck, 1961 Dec p 138 SWITCHING AMORPHOUS SEMICONDUCTOR by H K Henisch, 1969 Nov p 30

SWITCHING TELEPHONE, by H S Feder and A E Spencer, 1962 July p 132

SYMBIOSIS AND EVOLUTION, by Lynn Margulis 1971 Aug p 48 [1230]

SYMBIOSIS CLEANING, by Conrad Limbaugh 1961 Aug p 42 [135]

SYMBOLIC LOGIC, by John E Pfeiffer, 1950 Dec p 22

SYMMETRY IN PHYSICS VIOLATIONS OF, by Eugene P Wigner, 1965 Dec p 28 [301]

SYNAPSE THE, by Sir John Eccles, 1965 Jan p 56 [1001]

SYNCHRONOUS FIREFLIES, by John and Elisabeth Buck, 1976 May p 74

SYNCHROTRON RADIATION THE USES OF, by Ednor M Rowe and John H Weaver, 1977 June p 32 [365]

SYNTHESIS OF DIAMOND AT LOW PRESSURE, THE, by B V Derjaguin and D B Fedoseev, 1975

Nov p 102

SYNTHESIS OF DNA THE, by Arthur Kornberg, 1968 Oct p 64 [1124]

SYNTHESIS OF FAT THE, by David E Green, 1960 Feb p 46 [67]

SYNTHESIS OF MILK THE, by J M Barry, 1957 Oct p 121

SYNTHESIS OF PROTEINS THE AUTOMATIC, by R B Merrifield, 1968 Mar p 56 [320]

SYNTHESIS OF SPEECH THE, by James L Flanagan, 1972 Feb p 48

SYNTHESIS RNA DIRECTED DNA, by Howard M Temin, 1972 Jan p 24 [1239]

SYNTHETIC DETERGENTS, by Lawrence M Kushner and James I Hoffman, 1951 Oct p 26

SYNTHETIC DIAMONDS, by P W Bridgman, 1955 Nov p 42

SYNTHETIC ELEMENTS IV THE, by Glen T Seaborg and Justin L Bloom, 1969 Apr p 56 SYNTHETIC ELEMENTS III THE, by Glenn T Seaborg and A R Fritsch, 1963 Apr p 68 [293]

SYNTHETIC ELEMENTS THE, by I Perlman and G T Seaborg, 1950 Apr p 38 [242]

SYNTHETIC ELEMENTS THE NEWEST, by Albert Ghiorso and Glenn T Seaborg, 1956 Dec p 66 [243]

SYNTHETIC FIBERS, by Simon Williams, 1951 July p 37

SYSTEM ANALYSIS AND PROGRAMMING, by Christopher Strachey, 1966 Sept p 112 SYSTEM CONVERSION TO THE METRIC, by Lord Ritchie-Calder, 1970 July p 17 [334]

SYSTEMS ANALYSIS OF URBAN TRANSPORTATION, by William F Hamilton II and Dana K Nance 1969 July p 19

T

T2 MYSTERY THE, by Salvador E Luria, 1955 Apr p 92 [24]

TABLETS THE TARTARIA, by M S F Hood, 1968
May p 30

TADPOLE BECOMES A FROG HOW V. by William Etkin, 1966 May p 76 [1042]

TAILS OF COMETS THE, by Ludwig F Biermann and Rhea Lust, 1958 Oct p 44

TALKING BOARDS OF LASTER ISLAND THE, by Thomas S Barthel, 1958 June p 61

TAI KING DRUMS OF AFRICA THE, by John F Carrington, 1971 Dec p 90

TANDLM VAN DE GRAAFF ACCELFRATORS by Peter H Rose and Andrew B Wittkower, 1970 Aug p 24

TAR PELAGIC, by James N Butler, 1975 June p 90

TAR SANDS AND OIL SHALES, by Noel de Nevers, 1966 Feb p 21

TAR SANDS THE ATHABASKA, by Karl A Clark, 1949 May p 52

TARGETS POLARIZED ACCELERATOR, by Gilbert Shapiro, 1966 July p 68

TARGETS THE PERCEPTION OF MOVING, by Robert Sekuler and Eugene Levinson, 1977 Jan p 60 [575]

TARTARIA TABLETS THE, by M S F Hood, 1968 May p 30

TASK OF MEDICINE THE, by William H. Glazier, 1973 Apr. p. 13

TASTE RECEPTORS, by Edward S Hodgson, 1961 May p 135

TASTE SMELL AND, by A J Haagen-Smit, 1952 Mar p 28 [404]

TAN EXPERIMENT A NEGATIVE INCOME, by David N Kershaw, 1972 Oct p 19

TAXONOMY NUMERICAL, by Robert R Sokal, 1966 Dec p 106 [1059]

TCHOGA ZANBIL THE ZIGGURAT OF, by R Ghirshman, 1961 Jan p 68

TEACH ANIMALS HOW TO, by B F Skinner, 1951 Dec p 26 [423]

TEACHER EXPECTATIONS FOR THE DISADVANTAGED, by Robert Rosenthal and Lenore F Jacobson, 1968 Apr p 19 [514]

TEACHING A CRISIS IN SCIENCE by Fletcher G Watson, 1954 Feb p 27

TEACHING LANGUAGE TO AN APE, by Ann James Premack and David Premack, 1972 Oct p 92 [549]

TEACHING MACHINES, by B F Skinner, 1961 Nov p 90 [461]

TEACHING OF ELEMENTARY MATHEMATICS THE, by E P Rosenbaum, 1958 May 64 [238]

TEACHING OF ELEMENTARY PHYSICS THE, by Walter C Michels, 1958 Apr p 56 [229] TEARS AND THE LACRIMAL GLAND, by Siella Y

Botelho, 1964 Oct p 78
TECHNOLOGICAL CHANGE, THE ECONOMICS OF, by

Anne P Carter, 1966 Apr p 25 [629]
TECHNOLOGY AND ECONOMIC DEVELOPMENT, 1963

Sept issue TECHNOLOGY AND ECONOMIC DEVELOPMENT, by

Asa Briggs, 1963 Sept p 52 TECHNOLOGY AND NATIONAL SECURITY MILITARY by Herbert F York, 1969 Aug p 17 [330]

TECHNOLOGY AND THE CONSUMER PRODUCT by G Franklin Montgomery, 1977 Dec p 47 [703]

TECHNOLOGY AND THE OCEAN, by Willard Bascom, 1969 Sept p 198 [887]

TECHNOLOGY ASSESSMENT AND MICROWAVE DIODES, by Raymond Bowers and Jeffrey Frey, 1972 Feb p 13

TECHNOLOGY BICYCLE, by S S Wilson, 1973 Mar p 81

TECHNOLOGY HIGH PRESSURE, by Alexander Zenlin, 1965 May p 38

TECHNOLOGY IN CHINA, by Genko Uchida 1966 Nov p 37

TECHNOLOGY IN CHINA HIGH, by Raphael Tsu 1972 Dec. p. 13

TECHNOLOGY INNOVATION IN by John R. Pierce 1958 Sept. p. 116

TECHNOLOGY METAL OXIDE SEMICONDUCTOR, by William C Hittinger, 1973 Aug p 48

71 CHNOLOGY PIETER BRUEGELTHE ELDER 45A
GUIDE TO 16TH CENTURY, by H Arthur Klein
1978 Mar p 134 [3003]

TECHNOLOGY ROMAN HYDRAULIC, by Norman Smith, 1978 May p 154 [3009]

TECHNOLOGY THE ASSESSMENT OF, by Harvey Brooks and Raymond Bowers 1970 Feb p 13 [332]

TECHNOLOGY THE RISE OF COAL, by John R Harris, 1974 Aug p 92

TECHNOLOGY THE USES OF COMPUTERS IN by Steven Anson Coons 1966 Sept p 176

TECTONICS AND MINERAL RESOURCES PLATE, by Peter A Rona, 1973 July p 86 [909]

TECTONICS AND THE HISTORY OF LIFE IN THE OCEANS PLATE, by James W Valentine and Eldridge M Moores, 1974 Apr p 80 [912]

TECTONICS PLATE, by John F Dewey, 1972 May p 56 [900]

TEENAGE ATTITUDES, by H H Remmers and D H Radler, 1958 June p 25

TEETH THE SKIN OF YOUR, by Reidar F Sognnaes, 1953 June p 38

TENTITES, by Virgil E Barnes, 1961 Nov p 58 [802]

TEKTITES AND GEOMAGNETIC REVERSALS, by Billy P Glass and Bruce C Heezen 1967 July p 32

TEATITES AND IMPACT FRAGMENTS FROM THE MOON, by John A O'Keefe, 1964 Feb p 30 TELEPHONE SWITCHING, by H S Feder and A E

Spencer, 1962 July p 132
TELEPHONE, THE ELECTRONIC, by Peter P Luff
1978 Mar p 58 [3002]

TELESCOPE, THE 600 FOOT RADIO, by Edward F McClain Jr., 1960 Jan p 45

TELESCOPES RADIO, by John D Kraus 1955 Mar p 36

TELEVISION AND THE ELECTION, by Angus Campbell Gerald Gurin and Warren E Miller, 1953 May p 46

TELEVISION CABLE, by William T Knox, 1971 Oct p 22

TELEVISION COLOR by Newbern Smith 1950 Dec p 13

TELEVISION PROGRAMS AN ANALYSIS OF by Dallas W Smythe 1951 June p 15

TELEVISION UNDERWATER by W R Stamp 1953
June p 32

TEMPERATURE AND LIFE, by Lorus J and Margery J Milne 1949 Feb p 46

TEMPERATURE CONTROL IN FLYING MOTHS by Bernd Heinrich and George A Bartholomew 1972 June p. 70 [1252]

TEMPERATURE, HOW REPTILES REGULATE THEIR BODY by Charles M. Bogert. 1959 Apr. p. 105. TEMPERATURE SUPERCONDUCTIVITY AT ROOM by

W A Little 1965 Feb p 21 TEMPERATURES NOTED by Cesure Emiliant 1958 Feb p 54 [815]

TEMPERATURES CHEMISTRY AT VERY HIGH 1954
Sept p 116

TEMPI RATURES HIGH CHEMISTRY by Farrington
Daniels 1954 Sept p 109

TEMPERATURES HIGH FLAME, by Bernard Lewis 1954 Sept p 84

TEMIERATURES HIGH MATERIALS by Pol Duwer

1954 Sept. p. 98 Temperatures high propulsion by Martin

Summerfield 1954 Sept p 120 TEMERATORISM THE IT NOTS THE BY CORNEL H. Mayer 1961 May p 58

TEMETRATURES SHOCK WAVES AND HIGH BY Malcolm McChesney, 1963 Feb p 109

- TEMPERATURES, THE DEFORMATION OF METALS AT HIGH, by Hugh J McQueen and W J McGregor Tegart, 1975 Apr p 116
 TEMPERATURES ULTRAHIGH, by Fred Hoyle, 1954 Sept p 144
- TEMPERATURES VERY HIGH, by Arthur Kantrowitz, 1954 Sept p 132
- TEMPLE THE EXCAVATION OF A DROWNED GREEK, by Michael H Jameson, 1974 Oct p 110 TENSILE STRENGTH OF LIQUIDS THE, by Robert E Apfel, 1972 Dec p 58
- TEOTIHUACAN, by Rene Millon, 1967 June p 38 TEREDO THE, by Charles E. Lane, 1961 Feb p 132
- TERMINALS COMMUNICATION, by Ernest R Kretzmer, 1972 Sept p 130
- TERMITE AND THE CELL THE, by Martin Luscher, 1953 May p 74
- TERMITENESTS AIR CONDITIONED, by Martin Luscher, 1961 July p 138
- George A Llano, 1962 Sept p 212 [865]
- TERRITORIAL MARKING BY RABBITS, by Roman Mykytowycz, 1968 May p 116 [1108]
- TEST BAN DEBATE, THE GREAT, by Herbert F York, 1972 Nov p 15 [342]
- TESTIMONY EYEWITNESS, by Robert Buckhout, 1974 Dec p 23 [562]
- TETANUS, by W E. van Heyningen, 1968 Apr p 69
- TETRODOTOXIN, by Frederick A Fuhrman, 1967 Aug p 60 [1080]
- TEWA. THE HOPI AND THE, by Edward P Dozier, 1957 June p 126
- TEXTBOOK CONTROVERSIES SCIENCE by Dorothy Nelkin, 1976 Apr p 33
- TEXTURE AND VISUAL PERCEPTION, by Bela Julesz, 1965 Feb p 38 [318]
- TEXTURE EXPERIMENTS IN THE VISUAL PERCEPTION OF by Bela Julesz, 1975 Apr p 34 [563]
- TEXTURE OF THE NUCLEAR SURFACE, THE, by Chris D Zafiratos, 1972 Oct p 100
- THALIDOMIDESYNDROME THE, by Helen B Taussig, 1962 Aug p 29 [1100]
- THEMISTOCLES PLANNED THE BATTLE OF SALAMIS HOW, by Michael H Jameson 1961 Mar p 111
- THEOREMS FIXED POINT, by Marvin Shinbrot, 1966 Jan p 105
- THEORY OF GAMES THE, by Oskar Morgenstern 1949 May p 22
- THEORY OF NUMBERS THE, by Paul S Herwitz, 1951 July p 52
- THEORY OF RELATIVITY ARTIFICIAL SATELLITES AND THE, by V L Ginzburg 1959 May p 149 THEORY OF THE RAINBOW THE, by H Moyses
- Nussenzyeig, 1977 Apr p 116 [361]
 THERAPEUTIC COMMUNITY THE, by Richard
- Almond 1971 Mar p 34 [534]
 THERMAL POLLUTION AND AQUATIC LIFE, by John R Clark 1960 Mar p 18 [1135]
- R Clark 1969 Mar p 18 [1135] THERMAL PROPERTIES OF MATERIALS THE, by John Ziman 1967 Sept p 180
- THERMOELECTRICITY THE REVIVAL OF by Abram F Josse 1958 Nov p 31 [222]
- THERMOGRAPHY MEDICAL, by Jacob Gershon-Cohen 1967 Feb p 94
- THERMOMAGNETIC EFFECTS GALVANOMAGNETIC AND by Stanley W. Angrist 1961 Dec. p. 124 THERMOSTAT THE HUMAN by T. H. Benzinger 1961 Jan. p. 134 [129]
- A Rothman 1960 July p 142
- THINK DOINFANTS, by Jerome Kagan, 1972 Mar p 74 [542]
- THINK LLARNING TO, by Harry F and Margaret Kuenne Harlow, 1949 Aug. p 36 [415]

- THIRD GENERATION OF BREEDER REACTORS A, by T R Bump, 1967 May p 25
- THIRD-GENERATION PESTICIDES, by Carroll M Williams, 1967 July p 13 [1078]
- THIRST, by A V Wolf, 1956 Jan p 70 THOMPSON DARCY, by John Tyler Bonner, 1952 Aug p 60
- THREE MYSTERIES OF EASTER ISLAND, by Werner Wolff, 1949 Feb p 50
- THREE SPECTROSCOPIES THE, by Victor F Weisskopf, 1968 May p 15
- THREE DIMENSIONAL STRUCTURE OF AN ENZYME MOLECULE, THE, by David C. Phillips, 1966

 Nov. p. 78 [1055]
- THREE DIMENSIONAL STRUCTURE OF A PROTEIN MOLECULE, THE, by John C Kendrew, 1961 Dec p 96 [121]
- THREE DIMENSIONAL STRUCTURE OF TRANSFER RNA THE, by Alexander Rich and Sung Hou Kim, 1978 Jan p 52 [1377]
- THREE PIGMENT COLOR VISION, by Edward F MacNichol, Jr., 1964 Dec. p. 48 [197]
- THROMBOSIS CORONARY, by Paul D White, 1950 June p 44
- THUMBAND OTHER MIDGETS GENERAL TOM, by Victor A McKusick and David L Rimoin, 1967 July p 102
- THUNDER, by Arthur A Few, 1975 July p 80 THUNDERSTORM LIFE OF A, by Roscoe R Braham, Jr., 1950 June p 48
- THYMUS GLAND THE, by Sir Macfarlane Burnet, 1962 Nov p 50
- THYMUS HORMONE, THE, by Raphael H Levey, 1964 July p 66
- THYROID GLAND THE, by Lawson Wilkins, 1960 Mar p 119
- TIDAL ZONE BIOLOGICAL CLOCK OF THE, by John D Palmer, 1975 Feb p 70 [1316]
- TIDES AND THE EARTH MOON SYSTEM, by Peter Goldreich, 1972 Apr p 42
- TIDES BETWEEN GALAXIES VIOLENT, by Alar and Juri Toomre, 1973 Dec p 38
- TIDES IN THE ATMOSPHERE, by Sydney Chapman, 1954 May p 36
- TIDES POISONOUS, by S H Hutner and John McLaughlin, 1958 Aug p 92
- TILAPIA THE CULTIVATION OF, by Charles F Hickling, 1963 May p 143
- TILLAGE AGRICULTURE WITHOUT, by Glover B Triplett, Jr., and David M Van Doren, Jr., 1977 Jan p 28 [1349]
- TIME GO BACKWARD? CAN, by Martin Gardner, 1967 Jan p 98
- TIME PSYCHOLOGICAL, by John Cohen, 1964 Nov p 116
- TIME, RADIOACTIVITY AND, by P. M. Hurley, 1949 Aug. p. 48
- TIME REVERSAL by John M Blatt, 1926 Aug p 107
- Time reversal experiments in, by Oliver E. Overseth 1969 Oct p 88
- TIME SHARING ON COMPUTERS, by R M Fano and F J Corbato, 1966 Sept p 128
- time spent in Housework, by Joanne Vanek, 1974 Nov p 116
- TIME THE ARROW OF, by David Layzer, 1975
 Dec p 56
- TISSUE CULTURE AND CANCER, by John J. Biesele, 1936 Oct. p. 50
- tissue cultures plant, by Philip R. White, 1900 Mar p. 48
- TISSUE, INTERACTIONS BETWEEN HORMONES AND NERVE, by Bruce S. McEwen, 1976 July p. 48 [1341]
- TISSUES FROM DISSOCIATED CELLS by A A Moscona, 1959 May p 132

- TISSUES GIANT MOLECULES IN CELLS AND, by Francis O Schmitt, 1957 Sept p 204 [35]
- TISSUES IN EMBRYOS THE SHAPING OF, by Richard Gordon and Antone G Jacobson, 1978 June p 106 [1391]
- TITANIUM A NEW METAL, by George A W Boehm, 1949 Apr p 48 [258]
- TOKAMAK APPROACH IN FUSION RESEARCH THE, by Bruno Coppi and Jan Rem, 1972 July p 65
- TOMB OF ANTIOCHUS I THE, by Theresa Goell and Friedrich Karl Doerner, 1956 July p 38 TOMBS OF THE FIRST PHARAOHS THE, by Walter B
- Emery, 1957 July p 106 TOMBS OF THE SCYTHIANS FROZEN, by M I Artamonov, 1965 May p 100
- TONGUE SLIPS OF THE, by Victoria A Fromkin, 1973 Dec p 110 [556]
- TOO MANY DEER, by A Starker Leopold, 1955 Nov p 101
- TOOLS AND HUMAN BEHAVIOR STONE, by Lewis R and Sally R Binford, 1969 Apr p 70 [643] TOOLS AND HUMAN EVOLUTION, by Sherwood L Washburn, 1960 Sept p 62 [601]
- TOOLS THE FUNCTIONS OF PALEOLITHIC FLINT, by Lawrence H Keeley, 1977 Nov p 108 [700] TOOTH DECAY, by Reidar F Sognnaes, 1957 Dec p 109
- TOOTH DECAY A NEW THEORY OF, by Bernhard Gottlieb, 1948 Oct p 20
- TOP MILLIMETER OF THE OCEAN THE, by Ferren MacIntyre, 1974 May p 62 [913]
- TOPOGRAPHIC MICROSCOPE A, by Samuel
- Tolansky, 1954 Aug p 54 TOPOLOGY, by Albert W Tucker and Herbert S
- Bailey, Jr., 1950 Jan p 18
- TOPOLOGY CHEMICAL, by Edel Wasserman, 1962 Nov p 94 [286]
- TORNADOES, by Morris Tepper, 1958 May p 31 TOTAL INTRAVENOUS FEEDING, by Stanley J Dudrick and Jonathan E Rhoads, 1972 May p 73
- TOUCH VISION AND, by Irvin Rock and Charles S Harns, 1967 May p 96 [507]
- TOWERS COOLING, by Riley D Woodson, 1971 May p 70
- TOXIC SUBSTANCES AND ECOLOGICAL CYCLES, by George M Woodwell, 1967 Mar p 24 [1066] TOXIN PLAGUE, by Solomon Kadis, Thomas C Montie and Samuel J Ajl, 1969 Mar p 92
- TOXIN THE DIPHTHERIA, by A M Pappenheimer, Jr., 1952 Oct. p. 32
 TOXOPLASMOSIS, by Reginald D. Manwell and
- Hans Peter Drobeck, 1953 Feb p 86 TRACE ELEMENTS, by W D McElroy and C P Swanson, 1953 Jan p 22
- TRACE ELEMENT DESERTS by A J Anderson and E J Underwood, 1959 Jan p 97
- TRACERS, by Martin D Kamen, 1949 Feb p 30
 TRACHOMA, by Georges H Werner Bachisio
- Latte and Andrea Contini, 1964 Jan p 79
 TRACKING SATELLITES BY RADIO, by John T
 Mengel and Paul Herget, 1958 Jan p 23
- TRACKS OF MOVING CELLS, THE, by Guenter Albrecht-Buehler, 1978 Apr p 68 [1386]
- TRACKS OF NUCLEAR PARTICLES THE, by Herman Yagoda, 1956 May p 40 [252]
- TRADE IN THE ANCIENT WORLD, by Lionel Casson, 1954 Nov p 98
- TRADE OBSIDIAN AND THE ORIGINS OF, by J E Divon, J R Cann and Colin Renfrew, 1968 Mar p 38
- TRADE WIND CLOUDS, by Joanne Starr Malkus 1953 Nov. p. 31
- Orgue 1963 Feb p 96

- TRADING VENTURE A BYZANTINE, by George F Bass, 1971 Aug p 22
- TRAFFIC FLOW VEHICULAR, by Robert Herman and Keith Gardels, 1963 Dec p 35
- TRANSDETERMINATION IN CELLS, by Ernst Hadorn, 1968 Nov p 110 [1127]
- TRANSDUCERS BIOLOGICAL, by Werner R Loewenstein, 1960 Aug p 98 [70]
- TRANSDUCTION IN BACTERIA, by Norton D Zinder, 1958 Nov p 38 [106]
- TRANSFER OF TECHNOLOGY TO UNDERDEVELOPED COUNTRIES THE, by Gunnar Myrdal, 1974 Sept p 172
- TRANSFER RNA THE THREE DIMENSIONAL STRUCTURE OF, by Alexander Rich and Sung Hou Kim, 1978 Jan p 52 [1377]
- TRANSFORMATION CELLULAR FACTORS IN GENETIC, by Alexander Tomasz, 1969 Jan
- TRANSFORMED BACTERIA, by Rollin D Hotchkiss and Esther Weiss, 1956 Nov p 48 [18]
- TRANSFORMED CELLS, by S Meryl Rose, 1949 Dec p 22
- TRANSISTOR THE, by Frank H Rockett, 1948 Sept p 52
- TRANSISTOR THE JUNCTION, by Morgan Sparks, 1952 July p 28
- TRANSLATION BY MACHINE, by William N Locke, 1956 Jan p 29
- TRANSLATION COMPUTER PROGRAMS FOR, by Victor H Yngve, 1962 June p 68
- TRANSLATION OF CHINESE MACHINE, by Gilbert W King and Hsien-Wu Chang, 1963 June p 124
- TRANSMISSION HIGH VOLTAGE POWER, by L O Barthold and H G Pfeiffer, 1964 May p 38 TRANSMISSION OF COMPUTER DATA THE, by John R Pierce, 1966 Sept p 144
- TRANSPACIFIC CONTACT IN 3000 B C A, by Betty J Meggers and Clifford Evans, 1966 Jan p 28
- TRANSPARENCY THE PERCEPTION OF, by Fabio Metelli, 1974 Apr p 90 [559]
- TRANSPLANT THE EMBRYO AS A, by Alan E Beer and Rupert E Billingham, 1974 Apr p 36 TRANSPLANTATION OF THE KIDNEY THE, by John P Merrill, 1959 Oct p 57
- TRANSPLANTED NUCLEI AND CELL DIFFERENTIATION, by J B Gurdon, 1968 Dec p 24 [1128]
- TRANSPLANTING NUCLEI ON, by J F Danielli, 1952 Apr p 58
- TRANSPLANTS AND THE HAMSTER Skin, by Rupert E Billingham and Willys K Silvers, 1963 Jan p 118 [148]
- TRANSPLANTS SKIN, by P B Medawar, 1957 Apr p 62
- TRANSPORT THE BEGINNINGS OF WHEELED, by Stuart Piggott, 1968 July p 82
- TRANSPORT THE SUPERSONIC, by R L Bisplinghoff, 1964 June p 25
- TRANSPORTATION HIGH SPEED TUBE, by L K Edwards, 1965 Aug p 30
- TRANSPORTATION IN CITIES, by John W Dyckman, 1965 Sept p 162
- TRANSPORTATION SYSTEMS ANALYSIS OF URBAN, by William F Hamilton II and Dana K
- Nance, 1969 July p 19 TRAPPED LIGHT, 1949 June p 48
- TRAUMATIC SHOCK, by Jacob Fine, 1952 Dec p 62
- TREASURE OF ST NINIANS THE, by R L S Bruce-Mitford, 1960 Nov p 154
- TREE RINGS AND CLIMATE, by Harold C Fritts, 1972 May p 92 [1250]
- TREF RINGS AND SUNSPOTS, by J H Rush, 1952 Jan p 54

- TREES HOW SAP MOVES IN, by Martin H Zimmermann, 1963 Mar p 132 [154]
- TREES LIFF IN TALL, by William C Denison, 1973 June p 74 [1274]
- TREES STRANGLER, by Theodosius Dobzhansky and Joao Murca-Pires, 1954 Jan p 78
- TREES THE MECHANICAL DESIGN OF, by Thomas A McMahon, 1975 July p 92
- TREES URBAN, by Thomas S Elias and Howard S Irwin, 1976 Nov p 110
- TREMOR PHYSIOLOGICAL, by Olof Lippold, 1971 Mar p 65 [1217]
- TRENCHES OF THE PACIFIC THE, by Robert L Fisher and Roger Revelle, 1955 Nov p 36 [814]
- TRIAL A WITNESS AT THE SCOPES, by Fay-Cooper Cole, 1959 Jan p 120
- TRIAL BY NEWSPAPER, by Joseph T Klapper and Charles Y Glock, 1949 Feb p 16
- TRIODE DETECTOR DE FOREST AND THE, by Robert A Chipman, 1965 Mar p 92
- TRITICALE, by Joseph H Hulse and David Spurgeon, 1974 Aug p 72 TRITIUM IN NATURE, by Willard F Libby, 1954
- Apr p 38
- TROPICAL RAIN FOREST THE, by Paul W Richards, 1973 Dec p 58 [1286]
- TROUT THE MORTALITY OF, by Paul R Needham, 1953 May p 81
- TRUTH AND PROOF, by Alfred Tarski, 1969 June p 63
- TRUTH DRUGS, by Lawrence Zelic Freedman, 1960 Mar p 145 [497]
- TSUNAMIS, by Joseph Bernstein, 1954 Aug p 60 TUBE FERDINAND BRAUN AND THE CATHODE, by George Shiers, 1974 Mar p 92
- TUBE FERDINAND BRAUN AND THE CATHODE RAY, by George Shiers, 1974 Mar p 92
- TUBE THE FIRST ELECTRON, by George Shiers, 1969 Mar p 104
- TUBE TRANSPORTATION HIGH SPEED, by L K Edwards, 1965 Aug p 30
- TUBERCULOSIS, by Rene J Dubos, 1949 Oct p 30
- TUBERCULOSIS DRUGS RADIOACTIVE, by Lloyd J Roth and Roland W Manthei, 1956 Nov p 135
- TUBERCULOSIS THE GERM OF, by Esmond R Long, 1955 June p 102
- TUMOR GROWTH THE REVERSAL OF, by Armin C Braun, 1965 Nov p 75
- TUMOR VIRUSES THE FOOTPRINTS OF, by Fred Rapp and Joseph L Melnick, 1966 Mar p 34
- TUMORS THE VASCULARIZATION OF, by Judah Folkman, 1976 May p 58 [1339]
- TUNNEL OF EUPALINUS THE, by June p Goodfield, 1964 June p 104
- TURBINE, THE GAS, by Lawrence P Lessing 1953 Nov p 65
- TURBINES STEAM, by Walter Hossli, 1969 Apr p 100
- TURBULENCE IN SPACE, by George Gamow, 1952 June p 26
- TURKEY A FORGOTTEN NATION IN, by Seton Lloyd, 1955 July p 42
- TURKEY A HUNTERS VILLAGE IN NEOLITHIC, by Dexter Perkins, Jr, and Patricia Daly, 1968 Nov p 96
- TURKEY A NEOLITHIC CITY IN, by James Mellaart 1964 Apr p 94 [620]
- TURKEY AN EARLY FARMING VILLAGE IN, by Halet Cambel and Robert J Braidwood, 1970 Mar
- TURKEYS THE SOCIAL ORDER OF by C Robert Watts and Allan W Stokes 1971 June p 112

- TURNING A SURFACE INSIDE OUT, by Anthony Phillips, 1966 May p 112
- TURTLE THE NAVIGATION OF THE GREEN, by Archie Carr, 1965 May p 78 [1010] TWINS AN EXPLANATION OF, by Gunnar
- Dahlberg, 1951 Jan p 48 TWO DIMENSIONAL MATTER, by J G Dash, 1973 May p 30
- TWO MILE ELECTRON ACCELERATOR THE, by Edward L Ginzton and William Kirk, 1961 Nov p 49 [322]
- TWO NEUTRINO EXPERIMENT THE, by Leon M Lederman, 1963 Mar p 60 [324]
- TWO PHASE MATERIALS, by Games Slayter, 1962 Jan p 124
- TYCHO BRAHE, THE CELESTIAL PALACE OF by John Christianson, 1961 Feb p 118
- TYCHO COPERNICUS AND, by Owen Gingerich, 1973 Dec p 86
- TYPESETTING, by Gerard O Walter, 1969 May

- UGANDA SUBSISTENCE HERDING IN, by Rada and Neville Dyson-Hudson, 1969 Feb p 76 UKRAINE, ICE AGE HUNTERS OF THE, by Richard
- G Klein, 1974 June p 96 [685] ULCERS IN EXECUTIVE MONKEYS, by Joseph V Brady, 1958 Oct p 95 [425]
- ULTIMATE ATOM THE, by H C Corben and S
- DeBenedetti, 1954 Dec p 88 ULTIMATE PARTICLES THE, by George W Gray,
- 1948 June p 26 ULTRACENTRIFUGE, THE, by George W Gray,
- 1951 June p 42 [82] ULTRAFAST PHENOMENA IN LIQUIDS AND SOLIDS, by R R Alfano and S L Shapiro, 1973 June
- p 42 ULTRAHIGH ALTITUDE AERODYNAMICS, by Samuel A Schaaf Lawrence Talbot and Lee
- Edson, 1958 Jan p 36 ULTRAHIGH PRESSURES, by H Tracy Hall, 1959
- Nov p 61 ULTRAHIGH SPEED ROTATION, by Jesse W Beams
- 1961 Apr p 134 ULTRAHIGH TEMPERATURES by Fred Hoyle 1954
- Sept p 144 ULTRAHIGH VACUUM, by H A Steinherz and P
- A Redhead, 1962 Mar p 78 [277] ULTRAMICROCHEMISTRY, by Burris B
- Cunningham, 1954 Feb p 76 ULTRASONICS, by George E Henry, 1954 May p 54
- ULTRASONICS KILOMFG KYCLE, by Klaus Dransfeld, 1963 June p 60
- ULTRASOUND IN MEDICAL DIAGNOSIS BY GIBERT B Devey and Peter N T Wells 1978 May p 98 [1389]
- ULTRASOUND MOTHS AND by Kenneth D Roeder, 1965 Apr p 94 [1009]
- ULTRASTRONG MAGNETIC FIELDS by Francis Bitter 1965 July p 64
- ULTRAVIOLET ASTRONOMY by Leo Goldburg 1969 June p 92
- ULTRAVIOLET RADIATION AND NUCLEIC ACID by R A Deering 1962 Dcc p 135 [143] LMBHICALCORD THE, by Samuel R. M.
- Reynolds 1952 July p 70 UNA MASS DESTRUCTION, by Frygre Lie 1950
- Jan p 11 UNCERTAINTY THE FRINCHLE OF BY GLORGE
- Gamow 1958 Jan p 51 [212] UNDERCOOLING OF LIQUIDS THE, by David Turnbull, 1965 Jan p 34

LNDERDEVELOPED COUNTRIES, THE POPULATIONS OF THE, by Paul Demeny, 1974 Sept. p 148.

UNDERDEVELOPED COUNTRIES, THE TRANSFER OF TECHNOLOGY TO, by Gunnar Myrdal, 1974 Sept. p. 172.

UNDERGROUND EXPLOSIONS. THE DETECTION OF, by Sir Edward Bullard, 1966 July p. 19. UNDERGROUND EXPLOSIONS THE DETECTION OF,

by L. Don Leet, 1962 June p. 55.

UNDERGROUND RESERVOIRS TO CONTROL THE WATER CYCLE, by Robert P. Ambroggi, 1977 May p. 21. [924]

UNDERWATER ARCHAEOLOGY IN THE MAYA HIGHLANDS, by Stephan F. Borhegyi, 1959 Mar. p. 100.

UNDERWATER TELEVISION, by W. R. Stamp, 1953 June p. 32.

UNICORN THE HORN OF THE, by John Tyler Bonner, 1951 Mar. p. 42.

UNIFIED THEORIES OF ELEMENTARY-PARTICLE INTERACTION, by Steven Weinberg, 1974 July

US ARCHAEOLOGY, A CRISIS IN, by Frank H. H. Roberts, 1948 Dec p. 12.

US ECONOMY. THE STRUCTURE OF THE, by Wassily W. Leontief, 1965 Apr. p. 25. [624] US ENERGY POLICY IN THE, by David J. Rose, 1974 Jan. p. 20. [684]

US. FAMILY PLANNING IN THE, by Ronald F. Freedman, Pascal K. Whelpton and Arthur A. Campbell, 1959 Apr p. 50.

US MEDICAL CARE IN THE, by Osler L Peterson, 1963 Aug p. 19

LS. PATENT SYSTEM THE, by J Herbert Hollomon, 1967 June p. 19.

U.S. PHYSICIST'S REPLY TO PROFESSOR BLACKETT A, by Louis N. Ridenour, 1949 Mar. p 16.

U.S. SCIENTISTS, THE ORIGINS OF, by H. B. Goodrich, R. H. Knapp and George A. W.

Boehm, 1951 July p. 15. US SOUTH THE DEVELOPMENT OF THE, by Arthur Goldschmidt, 1963 Sept. p 224.

US. THE AGRICULTURE OF, by Earl O Heady, 1976 Sept. p 106.

US. THE HUMAN RESOURCES OF THE, 1951 Sept

U.S., THE PLURALISTIC ECONOMY OF THE, by Eli Ginzberg, 1976 Dec p 25.

US THE RANGELANDS OF THE WESTERN, by R. Merton Love, 1970 Feb p 88.

LS THE SUPPORT OF SCIENCE IN THE, by Dael Wolfle, 1965 July p 19

USSR ECONOMIC GROWTH IN THE, by Raymond P Powell, 1968 Dec p 17

USSR PHYSICS IN THE, by E P Rosenbaum, 1956 Aug p 29

USSR SCIENCE POLICY IN THE, by R. W Davies and R Amann, 1969 June p. 19

UNIVERSAL MOLECULE OF LIVING MATTER A. by Martin Kamen, 1958 Aug p 77

UNIVERSE A LARGER AND OLDER, by George W Gray, 1953 June p 56

UNIVERSE DECTFRIEM IN THE, by Jay M Pasachoff and William A Fowler, 1974 May p 108

UNIVERSE, ENERGY IN THE, by Freeman J. Dyson, 1971 Sept p 50 [662]

UNIVERSE EXPAND FOREVER' WILL THE, by J Richard Gott III, James E. Gunn, David N Schramm and Beatrice M. Tinsley, 1976 Mar

UNIVERSE FROM PALOMAR, THE, by George W. Grav, 1952 Feb p 43 UNIVERSE, THE, 1956 Sept. 1514e.

UNIVERSE, THE, by H. P. Robertson, 1956 Sept. p 73

UNIVERSE, THE CURVATURE OF SPACE IN A FINITE, by J. J. Callahan, 1976 Aug. p. 90.

UNIVERSE, THE EVOLUTIONARY, by George Gamow, 1956 Sept. p. 136. [211] UNIVERSE, THE STEADY-STATE, by Fred Hoyle, 1956 Sept. p. 157.

UNKNOWN VIRUSES, by George W. Gray, 1955 Mar. p. 60.

UNORTHODOX METHODS OF SPERM TRANSFER, by Lord Rothschild, 1956 Nov p. 121.

UNSOLVED PROBLEMS IN ARITHMETIC, by Howard DeLong, 1971 Mar. p. 50.

"UNTOLCHABLES" OF INDIA, THE, by M. N. Srinivas and André Beteille, 1965 Dec. p. 13. UNUSUAL MECHANISMS FOR THE GENERATION OF LIFT IN FLYING ANIMALS, by Torkel Weis-Fogh, 1975 Nov. p. 80. [1331]

UP FROM THE EMBRYO, by Florence Moog, 1950 Feb. p 52.

UPPER ATMOSPHERE, THE, by David I. Blumenstock, 1949 Jan. p. 30.

UPPER ATMOSPHERE. THE ANTARCTIC AND THE, by Sir Charles Wright, 1962 Sept. p. 74. [856] UPPER ATMOSPHERE, THE CIRCULATION OF THE, by Reginald E. Newell, 1964 Mar. p. 62.

UPRIGHT. THE PERCEPTION OF THE, by Herman A. Witkin, 1959 Feb. p. 50. [410]

URANIUM FROM COAL, by Ralph L. Miller and James R. Gill, 1954 Oct. p. 36.

URANIUM HEAVY-WATER REACTORS, NATURAL-, by Hugh C. McIntyre, 1975 Oct. p. 17.

URANIUM, THE EARTH S, by Paul F. Kerr, 1951 May p. 17. URBAN CENTER ON THE MISSISSIPPI A PRE-

COLUMBIAN, by Melvin L. Fowler, 1975 Aug p. 92. [688]

URBAN MONKEYS, by Sheo Dan Singh, 1969 July p. 108 [523]

URBAN TRANSPORTATION, SYSTEMS ANALYSIS OF, by William F. Hamilton II and Dana K. Nance, 1969 July p. 19.

URBAN TREES, by Thomas S. Elias and Howard S. Irwin, 1976 Nov. p. 110.

URBANIZATION OF THE HUMAN POPULATION THE, by Kingsley Davis, 1965 Sept. p. 40. [659] USE AND MISUSE OF GAME THEORY THE, by Anatol Rapoport, 1962 Dec p. 108.

USEFUL ALGAE, THE, by Francis Joseph Weiss, 1952 Dec. p. 15.

USES OF COMPUTERS IN EDUCATION, THE, by Patrick Suppes, 1966 Sept. p. 206. [533] USES OF COMPUTERS IN ORGANIZATIONS THE, by Martin Greenberger, 1966 Sept. p. 192

USES OF COMPUTERS IN SCIENCE, THE, by Anthony G Oettinger, 1966 Sept. p. 160.

LSES OF COMPUTERS IN TECHNOLOGY THE, by Steven Anson Coons, 1966 Sept. p. 176. USES OF FISSION PRODUCTS. THE, by Paul J. Lovewell, 1952 June p 19

USES OF LAND IN CITIES. THE, by Charles Abrams, 1965 Sept p 150

LSES OF SYNCHROTRON RADIATION, THE, by Ednor M Rowe and John H. Weaver, 1977 June p 32 [365]

VACCINES FOR POLIOMY ELITIS, by Jonas E. Salk, 1955 Apr p 42.

VACUOLES OF BLUE GREEN ALGAE, THE GAS, by A. E. Walsby, 1977 Aug. p. 90. [1367] VACUUM HIGH, by Philip and Emily Morrison,

1950 May p 20. VACUUM ULTRAHIGH, by H. A. Steinherz and P.

A Redhead, 1962 Mar. p. 78, [277]

M. Roberts, 1956 July p. 25. VAN DE GRAAFF ACCELERATORS, TANDEM, by Peter H. Rose and Andrew B. Wittkower,

VALUES, A STUDY OF, by Evon Z. Vogt and John

1970 Aug. p. 24.

VANISHING CULTURES, by Robert Heine-Geldern, 1957 May p. 39.

vascularization of tumors, the, by Judah Folkman, 1976 May p. 58. [1339]

vaulting, architectural, by J. H. Acland, 1961 Nov. p. 144.

VEHICULAR TRAFFIC FLOW, by Robert Herman and Keith Gardels, 1963 Dec. p. 35. VELOCITIES CHEMISTRY AT HIGH, by Richard

Wolfgang, 1966 Jan. p. 82.

VENOUS SYSTEM, THE, by J.Edwin Wood, 1968 Jan. p. 86. [1093]

VENUS, by Andrew and Louise Young, 1975 Sept. p. 70.

VENUS, THE ATMOSPHERES OF MARS AND, by Von R. Eshleman, 1969 Mar. p. 78.

VERBAL COMMUNICATION, by Roman Jakobson, 1972 Sept. p. 72. [547]

VERSATILE VIRUS, A, by Karl Maramorosch, 1953 June p. 78.

VERTICAL-TAKEOFF AIRCRAFT, by John P. Campbell, 1960 Aug. p. 41.

VERY HIGH TEMPERATURES, by Arthur Kantrowitz, 1954 Sept. p. 132.

VESALIUS DISCOVERER OF THE HUMAN BODY, by Martin Gumpert, 1948 May p. 24.

VIBRATING STRING OF THE PYTHAGOREANS, THE, by E. Eugene Helm, 1967 Dec. p. 92.

VIBRATION AND NOISE, THE CONTROL OF, by

Theodore P. Yin, 1969 Jan. p. 98. VIBRATIONS OF THE EARTH, RESONANT, by Frank

Press, 1965 Nov. p. 28. VIETNAM WAR, "SILENT MAJORITIES" AND THE, by

Philip E. Converse and Howard Schuman, 1970 June p. 17, [656]

VIKINGS, THE, by Eric Oxenstierna, 1967 May p. 66.

VILLAGE FROM CAVE TO, by Robert J. Braidwood, 1952 Oct. p. 62.

VILLAGE IN ENGLAND, A DESERTED MEDIEVAL, by Maurice Beresford, 1976 Oct. p. 116. VILLAGE IN GREECE, AN EARLY NEOLITHIC, by

Robert J. Rodden, 1965 Apr. p. 82. VILLAGE IN NEOLITHIC TURKEY, A HUNTERS, by

Dexter Perkins, Jr., and Patricia Daly, 1968 Nov. p. 96 village in turkey, an early farming, by Halet

Çambel and Robert J. Braidwood, 1970 Mar. p. 50. VILLAGE POPULATION TRENDS IN AN INDIAN, by

Carl E. Taylor, 1970 July p. 106. [1184] VILLAGE SITE, HACILAR A NEOLITHIC, by James

Mellaart, 1961 Aug. p. 86.

VINES AND CLIMATE WINES, GRAPE, by Philip Wagner, 1974 June p. 106. [1298] VIOLATIONS OF SYMMETRY IN PHYSICS, by Eugene

P. Wigner, 1965 Dec. p. 28. [301] VIOLENCE, THE EFFECTS OF OBSERVING, by

Leonard Berkowitz, 1964 Feb. p. 35. [481] VIOLENT TIDES BETWEEN GALAXIES, by Alar and Jun Toomre, 1973 Dec. p 38.

VIOLING THE PHYSICS OF, by Carleen Maley Hutchins, 1962 Nov. p. 78.

VIRAL DNA. THE NUCLEOTIDE SEQUENCE OF A, by John C. Fiddes, 1977 Dec. p. 54. [1374]

VIRAL HEPATITIS, by Joseph L. Melnick, Gordon R. Dreesman and F. Blaine Hollinger, 1977 July p. 44. [1365]

VIRUS, A DEFECTIVE CANCER, by Harry Rubin, 1964 June p. 46. [185]

VIRUS AVERSATILE, by Karl Maramorosch, 1953 June p. 78.

- VIRUS, BUILDING A BACTERIAL, by William B. Wood and R. S. Edgar, 1967 July p. 60. [1079]
- VIRUS CAN CAUSE DISEASE, HOW THE IMMUNE RESPONSE TO A, by Abner Louis Notkins and Hilary Koprowski, 1973 Jan. p. 22. [1263]

VIRUS, NATURAL HISTORY OF A, by Philip and Emily Morrison, 1949 Nov. p. 50.

VIRUS, REBUILDING A, by Heinz Fraenkel-Conrat, 1956 June p. 42. [9]

VIRUS, THE GENETIC CODE OF A, by Heinz Fraenkel-Conrat, 1964 Oct. p. 46. [193]

virus, the genetic control of the shape of a, by Edouard Kellenberger, 1966 Dec. p. 32. [1058]

VIRUS, THE GENETICS OF A BACTERIAL, by R. S. Edgar and R. H. Epstein, 1965 Feb. p. 70. [1004]

VIRUS, THE INFLUENZA, by Sir Macfarlane Burnet, 1953 Apr. p. 27.

VIRUS, THE LIFE CYCLE OF A, by André Lwoff, 1954 Mar. p. 34.

VIRUS, THE POLYOMA, by Sarah E. Stewart, 1960 Nov. p. 63. [77]

virus, the receptor site for a bacterial, by Richard Losick and Phillips W. Robbins, 1969 Nov. p. 120. [1161]

virus, the structure of the influenza, by Sir Macfarlane Burnet, 1957 Feb. p. 37.

VIRUSES, by F. M. Burnet, 1951 May p. 43. [2] VIRUSES AND CANCER HERPES, by Keen A. Rafferty, Jr., 1973 Oct. p. 26.

VIRUSES AND GENES, by François Jacob and Elie L. Wollman, 1961 June p. 92, [89]

VIRUSES AND SEX, BACTERIAL, by Max and Mary Bruce Delbrück, 1948 Nov. p. 46.

VIRUSES, FRIENDLY, by Karl Maramorosch, 1960 Aug. p. 138.

VIRUSES INSERT THEIR DNA INTO THE DNA OF THE HOST CELL, HOW, by Allan M. Campbell, 1976 Dec. p. 102. [1347]

VIRUSES OF THE COMMON COLD, THE, by Christopher Howard Andrewes, 1960 Dec. p. 88.

viruses, slow, inapparent and recurrent, by John J. Holland, 1974 Feb. p. 32. [1289] viruses. the footprints of tumor, by Fred

Rapp and Joseph L. Melnick, 1966 Mar. p. 34.

VIRUSES, THE INDUCTION OF CANCER BY, by Renato Dulbecco, 1967 Apr. p. 28. [1069] VIRUSES, THE MULTIPLICATION OF BACTERIAL, by Gunther S. Stent, 1953 May p. 36. [40]

VIRUSES, THE MUTATION OF, by C. A. Knight and Dean Fraser, 1955 July p. 74. [59]

VIRUSES, THE PHYSICS OF, by Ernest C. Pollard, 1954 Dec. p. 62. [32]

VIRUSES, THE STRUCTURE OF, by R. W. Horne, 1963 Jan. p. 48.

VIRUSES, UNKNOWN, by George W. Gray, 1955 Mar. p. 60.

viruses within cells, by Joseph L. Melnick, 1953 Dec. p. 38.

VISCOSITY, NEGATIVE, by Victor P. Starr and Norman E. Gaut, 1970 July p. 72.

VISION AND TOUCH, by Irvin Rock and Charles S. Harris, 1967 May p. 96. [507]

VISION. ARRESTED, by Austin H. Riesen, 1950 July p. 16. [408]

VISION, ELECTRICAL EVENTS IN, by Lorus J. and Margery J. Milne, 1956 Dec. p. 113. VISION, EXPERIMENTS IN COLOR, by Edwin H.

Land, 1959 May p. 84. [223] VISION IN FROGS, by W. R. A. Muntz, 1964 Mar.

p. 110. vision, infant, by Arnold Gesell, 1950 Feb. p. 20. [401] VISION, INSECT, by Lorus J. and Margery J. Milne, 1948 July p. 42.

VISION, MOLECULAR ISOMERS IN, by Ruth Hubbard and Allen Kropf, 1967 June p. 64. [1075]

VISION, THE NEUROPHYSIOLOGY OF BINOCULAR, by John D. Pettigrew, 1972 Aug. p. 84. [1255] VISION, THE PROCESSES OF, by Ulric Neisser, 1968 Sept. p. 204. [519]

VISION, THE RETINEX THEORY OF COLOR, by Edwin H. Land, 1977 Dec. p. 108. [1392]

VISION, THREE-PIGMENT COLOR, by Edward F. MacNichol, Jr., 1964 Dec. p. 48. [197]

VISIT TO DUBLIN, by Leopold Infeld, 1949 Oct. p. 11.

visit to england, by Leopold Infeld, 1949 Nov. p. 40.

VISIT TO POLAND, by Leopold Infeld, 1949 Dec. p. 40.

VISUAL CELLS, by Richard W. Young, 1970 Oct. p. 80.

VISUAL CELLS IN THE PONS OF THE BRAIN, by Mitchell Glickstein and Alan R. Gibson, 1976 Nov. p. 90. [573]

VISUAL CHARACTERISTICS OF WORDS, THE, by Peter Dunn-Rankin, 1978 Jan. p. 122. [580]

"VISUAL CLIFF", THE, by Eleanor J. Gibson and Richard D. Walk, 1960 Apr. p. 64. [402]

VISUAL CORTEX OF THE BRAIN, THE, by David H. Hubel, 1963 Nov. p. 54. [168]

visual illusions, by Richard L. Gregory, 1968 Nov. p. 66. [517]

VISUAL IMAGE, THE, by E. H. Gombrich, 1972 Sept. p. 82. [548]

VISUAL IMAGES, RETINAL PROCESSING OF, by Charles R. Michael, 1969 May p. 104. [1143]

visual isolation in Gulls, by Neal Griffith Smith, 1967 Oct. p. 94. [1084]

VISUAL MOTION PERCEPTION, by Gunnar Johansson, 1975 June p. 76. [564]

VISUAL PATHWAYS IN ALBINOS, by R. W. Guillery, 1974 May p. 44. [1294]

VISUAL PERCEPTION AND PERSONALITY, by Warren J. Wittreich, 1959 Apr. p. 56. [438] VISUAL PERCEPTION, EYE MOVEMENTS AND, by David Noton and Lawrence Stark, 1971 June

by Olga Eizner Favreau and Michael C.
Corballis, 1976 Dec. p. 42. [574]

VISUAL PERCEPTION OF TEXTURE, EXPERIMENTS IN THE, by Bela Julesz, 1975 Apr. p. 34. [563]

VISUAL PERCEPTION, TEXTURE AND, by Bela Julesz, 1965 Feb. p. 38. [318]

VISUAL PERCEPTION, THE ADJACENY PRINCIPLE IN, by Walter C. Gogel, 1978 May p. 126. [582] VISUAL PIGMENTS AND COLOR BLINDNESS, by W.

A. H. Rushton, 1975 Mar. p. 64. [1317] VISUAL PIGMENTS IN MAN, by W. A. H. Rushton.

1962 Nov. p. 120. [139] visual search, by Ulric Neisser, 1964 June

p. 94. [486] VISUAL SYSTEMS, INHIBITION IN, by Donald

Kennedy, 1963 July p. 122. [162] VISUAL WORLD OF INFANTS, THE, by T. G. R. BOWER, 1966 Dec. p. 80. [502]

VISUALIZATION OF GENES IN ACTION, THE, by O. L. Miller, Jr., 1973 Mar. p. 34. [1267]

VISUALLY GUIDED BEHAVIOR, THE NEURAL BASIS OF, by Jorg-Peter Ewert, 1974 Mar. p. 34. [1293]

VOICE, THE ACOUSTICS OF THE SINGING, by Johan Sundberg, 1977 Mar. p. 82. [356] VOLCANOES by Howel Williams, 1951 Nov. p. 45. VOLCANOES AND WORLD CLIMATE, by Harry Wexler, 1952 Apr. p. 74. [843]

VOLCANGES OF MARS, THE, by Michael H. Carr, 1976 Jan. p. 32.

VOLTA, ALESSANDRO, by Giorgio de Santillana, 1965 Jan. p. 82.

VOLTAGE POWER TRANSMISSION, HIGH, by L. O. Barthold and H. G. Pfeiffer, 1964 May p. 38. VOLVOX: A COLONY OF CELLS, by John Tyler

VOODOO LILY, THE, by Bastiaan J. D. Meeuse, 1966 July p. 80.

Bonner, 1950 May p. 52.

VORTEX RINGS IN SUPERFLUID HELIUM, QUANTIZED, by F. Reif, 1964 Dec. p. 116.

VORTEXES IN AIRCRAFT WAKES, by Norman A. Chigier, 1974 Mar. p. 76.

VOTES IN THE MAKING, by Paul F. Lazarsfeld, 1950 Nov. p. 11.

voting systems, the choice of, by Richard G. Niemi and William H. Riker, 1976 June p. 21. [689]

VOYAGE OF MARINER IV. THE, by J. N. James, 1966 Mar. p. 42.

VOYAGE OF MARINER II, THE, by J. N. James, 1963
July p. 70.

VOYAGE OF THE ATKA, THE, by Paul A. Humphrey, 1955 Sept. p. 50.

VOYAGE OF THE "CHALLENGER", THE, by Herbert S. Bailey, Jr., 1953 May p. 88.

VULTURES, THE SOARING FLIGHT OF, by C. J. Pennycuick, 1973 Dec. p. 102.

W

WALKING, THE ANTIQUITY OF HUMAN, by John Napier, 1967 Apr. p. 56. [1070]

WALKING, THE CONTROL OF, by Keir Pearson, 1976 Dec. p. 72. [1346]

WALL, THE CURTAIN, by James Marston Fitch, 1955 Mar. p. 44.

WALLACE ALFRED RUSSEL, by Loren C. Eiseley, 1959 Feb. p. 70.

walls of growing plant cells, by Peter Albersheim, 1975 Apr. p. 80. [1320] Wankel Engine The, by David E. Cole, 197.

WANKEL ENGINE, THE, by David E. Cole, 1972
Aug. p. 14.

war, Limited nuclear, by Sidney D. Drell and Frank von Hippel, 1976 Nov. p. 27.

war, "SILENT MAJORITIES" AND THE VIETNAM, by Philip E. Converse and Howard Schuman, 1970 June p. 17. [656]

WARFARE AND NATIONAL SECURITY.

ANTISUBMARINE, by Richard L. Garwin, 1972

July p. 14. [345]

WARM CLOTHES, by M. E. Barker, 1951 Mar. p. S6.

wasp, the spider and the, by Alexander Petrunkevitch, 1952 Aug. p. 20.

WASPS OF AUSTRALIA, THE SAND, by Howard E. Evans and Robert W. Matthews, 1975 Dec. p. 108.

WASPS, PREDATORY, by Howard E. Evans, 1963 Apr. p. 144.

WASTE IN THE OCEAN. THE DISPOSAL OF, by Willard Bascom, 1974 Aug. p. 16

WASTES FROM FISSION REACTORS, THE DISPOSAL OF RADIOACTIVE, by Bernard L. Cohen, 1977 June p. 21. [364]

water, by Roger Revelle, 1963 Sept. p. 92 water, by Arthur M. Buswell and Worth H. Rodebush, 1956 Apr. p. 76. [262]

WATER-BREATHING, EXPLERIMENTS, by Johannes A. Kylstra, 1968 Aug. p. 66. [1123] WATER, BODY, by A. V. Wolf, 1958 Nov. p. 125. WATER BUFFALO, THE, by W. Ross Cocknil, 1967 Dec. p. 118. [1038]

- WATER BY FREEZING DESALTING by Asa E Snyder 1962 Dec p 41
- water cycle, the, by H L Penman 1970 Sept p 98 [1191]
- water Cycle the CONTROL OF the, by Jose P Petxoto and M. Ali Kettani. 1973 Apr. p. 46 [907]
- WATER CYCLE. UNDERGROUND RESERVOIRS TO CONTROL THE, by Robert P. Ambroggi. 1977. May p. 21 [924]
- WATER FREEZES, HOW, by Bruce Chalmers, 1959 Feb p 114
- WATER FROM SALT FRESH, by David S Jenkins 1957 Mar p 37
- WATER GROUND by A N Sayre 1950 Nov p 14 [818]
- WATER IN PLANTS THE RISE OF, by Victor A Greulach 1952 Oct p 78 WATER IN RED CELLS, THE STATE OF, by Arthur K
- Solomon 1971 Feb p 88 [1213]
- WATER SUPERDENSE, by Boris V Derjaguin, 1970 Nov p 52
- WATER SURFACE, INSECTS OF THE, by Lorus J and Margery J Milne, 1978 Apr p 134 [1387]
- WATER UNDER THE SAHARA, by Robert P Ambroggs, 1966 May p 21
- WAVES ACOUSTIC SURFACE, by Gordon S. Kino and John Shaw, 1972 Oct. p. 50
- WAVES IN THE ATMOSPHERE, LEE, by R S Scorer, 1961 Mar p 124
- WAVES IN THE SOLAR WIND, by J. T. Gosling and A. J. Hundhausen, 1977 Mar. p. 36 [1353] WAVES OCEAN by Willard Bascom. 1959 Aug.
- WAVES. THE DETECTION OF GRAVITATIONAL by Joseph Weber, 1971 May p 22
- WAX IN OCEANIC FOOD CHAINS, THE ROLE OF, by Andrew A Benson and Richard F Lee 1975 Mar p 76 [1318]
- WEAK INTERACTIONS THE, by S B Treiman 1959 Mar p 72 [247]
- WEAPON IS THE ATOMIC BOMB AN ABSOLUTE, by P M S Blackett, 1949 Mar p 13
- WEAPON THE SLING AS A, by Manfred Korfmann 1973 Oct p 34
- WEAPONS AND INTERNATIONAL STABILITY
 NUCLEAR POWER, NUCLEAR, by David J. Rose
 and Richard K. Lester, 1978 Apr. p. 45 [3004]
- WEAPONS CHEMICAL AND BIOLOGICAL by Matthew S Meselson, 1970 May p 15 WEAPONS ENHANCED RADIATION by Fred M
- Kaplan 1978 May p 44 [3007]
 WEAPONS NUCLEAR STRATEGY AND NUCLEAR, by
- Barry E. Carter, 1974 May p 20
 WEAPONS THE LIMITATION OF OFFENSIVE, by
- Hurbert Scoville Jr 1971 Jan p 15
 WEAPONS THE PROLIFERATION OF NUCLEAR by
- William Epstein, 1975 Apr p 18 WEAR by Ernest Rabinowicz, 1962 Feb p 127 WEAR THE PARTICLES OF, by Douglas Scott
- William W Seifert and Vernon C Westcott 1974 May p 88
- WEATHER FORECASTING LONG RANGE by Jerome Namias 1955 Aug p 40
- WEATHER INSTRUMENTS, by David I Blumenstock 1951 Dec p 64
- WEATHER RADAR AND THE, by Hal Foster, 1953
 July p 34
- WESTER SATELLITES, by Morns Neiburger and Harry Wester 1961 July p 80
- WESTHER SATELLITIES II by Arthur W. Johnson 1969 Jan p. 52
- WEATHER THE STARCHE AND THE BY Morton J. Rubin 1962 Sept. p. 84 [859]
- WEWER (NIS, by Berthold K. Holldobler and I dward O. Wilson. 1977 Dec. p. 146. [1373]

- WEDDELL SEAL THE, by Gerald L Kooyman 1969 Aug p 100 [1156]
- WFED CONTROL BY INSECT, by James K Holloway, 1957 July p 56
- WEGENER AND THE HYPOTHESIS OF CONTINENTAL DRIFT ALFRED, by A. Hallam, 1975 Feb. p. 88
- WEST INDIES, EARLY MAIN IN THE, by Jose M Cruxent and Irving Rouse 1969 Nov p 42 [652]
- WESTERN COAL THE STRIP MINING OF, by Genevieve Atwood, 1975 Dec p 23
- WESTERN U.S., THE RANGELANDS OF THE, by R. Merton Love, 1970 Feb p 88
- WHALE CARDIOGRAM, 1952 Oct p 68
- WHALE THE BLUE, by Johan T Ruud, 1956 Dec p 46
- WHALE, THE RETURN OF THE GRAY, by Raymond M Gilmore, 1955 Jan p 62
- WHALES PLANKTON AND MAN by Willis E Pequegnat, 1958 Jan p 84 [853]
- WHALES THE LAST OF THE GREAT by Scott McVay, 1966 Aug p 13
- WHALES, THE PHYSIOLOGY OF, by Cecil K Drinker, 1949 July p 52
- WHAT HAPPENS TO THE HUMAN LENS IN CATARACT, by Ruth van Heyningen, 1975 Dec p 70
- WHAT HOLDS THE NUCLEUS TOGETHER?, by Hans
 A Bethe 1953 Sept p 58
- what is HEAT?, by Freeman J Dyson, 1954 Sept p 38
- WHAT IS IONIZING RADIATION?, by Robert L Platzman 1959 Sept p 74
- WHAT IS MATTER?, by Erwin Schrodinger, 1953 Sept p 52 [241]
- WHAT IS MEMORY?, by Ralph W Gerard, 1953 Sept p 118 [11]
- what is Pain, by W. K. Livinston 1953 Mar p 59
- WHAT IS PROBABILITY?, by Rudolf Carnap, 1953 Sept p 128
- WHAT MAKES LEAVES FALL?, by William P Jacobs, 1955 Nov p 82 [116]
- WHAT PEOPLE DREAM ABOUT, by Calvin S Hall, 1951 May p 60
- WHEAT, by Paul C Mangelsdorf, 1953 July p 50
 [25]
- WHEAT HYBRID, by Byrd C Curtis and David R
 Johnston 1969 May p 21
- WHEELED TRANSPORT THE BEGINNINGS OF, by Stuart Piggott 1968 July p 82
- WHEN THE BLACK SEA WAS DRAINED by Kenneth
 J Hsu 1978 May p 52 [932]
- WHEN THE MEDITERRANEAN DRIED UP by Kenneth J Hsu, 1972 Dec p 26 [904]
- WHERE DO COSMIC RAYS COME FROM? by Bruno Rossi, 1953 Sept p 64 [239]
- "WHISKERS" METAL by S S Brenner 1960 July p 64
- WHISTLED LANGUAGE OF LA GOMERA THE, by Andre Classe 1957 Apr p 111
- whistlers by L. R. O. Storey, 1956 Jan. p. 34 whistles, aerody Navic, by Robert C. Chanaud. 1970 Jan. p. 40
- WHITE BLOOD CELLS V BACTERIA by W Barry Wood Jr 1951 Feb p 48 [51]
- WHITE LIGHT HOLOGRAMS by Emmett N Leith 1976 Oct p 80
- WHITE PINE, by Donald Culross Peattie, 1948
 June p. 48
- why do Galanies have a spiral formy by Cecilia H. Pavne Gaposchkin. 1953 Sept p. 89
- why do roads corregate, by Keith B Mather, 1963 Jan p 128 1960 Apr p 157
- With Mosquitoretelents refer by R. H. Wright, 1975 July p. 104

- WHY THE SEA IS SALT, by Ferren MacIntyre, 1970 Nov p 104 [893]
- WHY THE STOMACH DOES NOT DIGEST ITSELF, by Horace W Davenport, 1972 Jan p 86 [1240]
- wild animals in captivity really wild? are, by H. Hediger. 1954 May p. 76
- WILDLIFE HUSBANDRY IN AFRICA by F Fraser Darling 1960 Nov p 123
- WILL THE UNIVERSE EXPAND FOREVER? by J
 Richard Gott III James E Gunn David N
 Schramm and Beatrice M Tinsley 1976 Mar
 p 62
- WINCHESTER, THE ARCHAEOLOGY OF, by Martin Biddle 1974 May p 32
- WIND BRACING OF BUILDINGS THE, by Carl W Condit, 1974 Feb p 92
- WIND THE SOLAR, by E N Parker, 1964 Apr p 66
- WIND WAVES IN THE SOLAR, by J T Gosling and A J Hundhausen, 1977 Mar p 36 [1353]
- windows, by Eugene Ayres, 1951 Feb p 60 wine, by Maynard A Amerine, 1964 Aug p 46 [190]
- WINES, GRAPE VINES AND CLIMATE, by Philip Wagner, 1974 June p 106 [1298]
- WIRES EXPLODING, by Frederick D Bennett 1962 May p 102
- withering and the purple forglove, william, by J. Worth Estes and Paul Dudley White, 1965 June p. 110
- witness at the scopes trial, a, by Fay Cooper Cole, 1959 Jan p 120
- WOMEN IN DEVELOPED COUNTRIES, THE CHANGING STATUS OF, by Judith Blake 1974 Sept p 136
- WOMEN OF KOREA AND JAPAN THE DIVING by Suk Ki Hong and Hermann Rahn, 1967 May p 34
- WOMEN SLIVES HOW IDEOLOGY SHAPES by Jean Lipman-Blumen, 1972 Jan p 34
- "WONDERFULNET THE", by P F Scholander
 1957 Apr p 96
- wood Pulp, by F Keith Hall, 1974 Apr p 52 wood structure, by Simon Williams 1953 Jan p 64
- WOOD WINDS THE PHYSICS OF, by Arthur H Benade, 1960 Oct p 144
- WOODHENGES by Geoffrey Wainwright 1970 Nov p 30
- woodroach the, by Berta Scharrer, 1951 Dec p 58
- WOODS HOLE IN 1949, by John E. Pfeiffer, 1949 Sept p 13
- WORDS, THE VISUAL CHARACTERISTICS OF by Peter Dunn Rankin 1978 Jan p 122 [580] WORK SATISFACTION AN EXPERIMENT IN, by Lars
- E Bjork, 1975 Mar p 17 WORLD AGRICULTURAL PLAN A, by Addeke H Boerma, 1970 Aug p 54 [1186]
- WORLD MIDDLE CLASS WORLD RESOURCES AND THE, by Nathan Keyfitz, 1976 July p 28
- WORLD OIL PRODUCTION, by Andrew R. Flower, 1978 Mar p 42 [930]
- WORLD POPULATION by Julian Huxley 1956 Mar p 64 [616]
- WORLD POPULATION THE PROSPECTS FOR A STATION ARY, by Tomas Frejka 1973 Mar p 15 [683]
- WORLD RESOURCES AND THE WORLD MIDDLE CLASS by Nathan Keyfitz, 1976 July p 28 WORLD'S ACCELERATORS 1948 Oct p 18
- WORM AUTOBIOGRAPHIES, by G. P. Wells. 1959 June p. 132 WOUND HEALING. by Russell Ross, 1969 June
- WOUNDSHOCK by Sanford Rosenthal 1958 Dec

Writing Index to Titles

WRITING THE EARLIEST PRECURSOR OF, by Denise Schmandt-Besserat, 1978 June p 50 [708]



- X RAY ABSORPTION THE ANALYSIS OF MATERIALS BY, by Edward A Stern, 1976 Apr p 96 RAY ASTRONOMY, by Herbert Friedman, 1964 June p 36
- x RAY CRYSTALLOGRAPHY, by Sir Lawrence Bragg, 1968 July p 58 [325]
- x RAY EMITTING DOUBLE STARS, by Herbert Gursky and Edward P J van den Heuvel, 1975 Mar p 24
- N RAY MICROSCOPE, THE, by Paul Kirkpatrick, 1949 Mar p 44
- X RAY SKY THE, by Herbert W Schnopper and John P Delvaille, 1972 July p 26
- x RAY STARS, by Riccardo Giacconi, 1967 Dec p 36

A RAY STARS IN GLOBULAR CLUSTERS, by George W Clark, 1977 Oct p 42 [385]

x RAYS FROM SUPERNOVA REMNANTS, by Philip A Charles and J Leonard Culhane, 1975 Dec p 38



YACHTS THE STUDY OF SAILING, by Halsey C Herreshoff and J N Newman, 1966 Aug p 60

YARN, by Stanley Backer, 1972 Dec p 46
YEASTS, by Anthony H Rose, 1960 Feb p 136
YELLOWSTONE PARK THE PETRIFIED FORESTS OF,
by Erling Dorf, 1964 Apr p 106

YERKES LABORATORIES THE, by George W Gray, 1955 Feb p 67

YORK 1538 1812 THE PEOPLE OF, by Ursula M Cowgill, 1970 Jan p 104

YOUNG STARS, by Adriaan Blaauw, 1956 Feb p 36

YOUNGEST STARS THE, by George H Herbig 1967 Aug p 30 YOUTH, by George D Stoddard, 1951 Sept p 101

Z

ZERO NEW METHODS FOR APPROACHING
ABSOLUTE, by O V Lounasmaa, 1969 Dec
p 26

ZIGGURAT OF TCHOGA ZANBIL THE, by R Ghirshman, 1961 Jan p 68

ZIRCONIUM, by Stephen M Shelton, 1951 June p 18 [259]

ZODIACAL LIGHT THE, by D E Blackwell 1960
July p 54

ZONE REFINING, by William G Pfann, 1967 Dec p 62

ZULU EMPIRE, THE RISE OF A, by Max Gluckman

SCIENTIFIC AMERICAN

Index to Book Reviews

AUTHORS

A

Ackerman, Nathan W, and Marie Jahoda Anti Semitism and Emotional Disorder A Psycho analytic Interpretation Reviewed by Gordon W Allport, 1950 June p 56

Adams, David H, and Thomas M Bell Slow Viruses Reviewed by Philip Morrison, 1977

May p 140

Adelmann, Howard B Marcello Malpighi and the Evolution of Embryology Reviewed by Maxwell H Braverman, 1967 Apr p 135

Adorno, T W, Else Frenkel-Brunswik, Daniel J Levinson and R Nevitt Sanford The Authoritarian Personality Reviewed by Gordon W Allport, 1950 June p 56 Ager, Derek V The Nature of the

Ager, Detek V The Nature of the
Stratigraphical Record. Reviewed by Philip
Morrison, 1975 Sept p 194B

Attchison, Jean The Articulate Manimal An Introduction to Psycholinguistics Reviewed by Philip Morrison, 1978 Feb p 44

Alexander, R. McN, and G. Goldspink, editors Mechanics and Energetics of Animal Locomotion Reviewed by Philip Morrison, 1978 Apr. p. 34

Allen, J S, and L T C Rolt The Steam Engine of Thomas Newcomen, Reviewed by Philip

Morrison, 1978 May p 37

Allibone T E., F R.S., general editor The Impact of the Natural Sciences on Archaeology A Joint Symposium of the Royal Society and the British Academy Reviewed by Philip Morrison, 1971 July p 117

Amaldi, Edoardo, Enrico Persico, Franco Rasetti and Emilio Segre, editors Enrico Fermi Collected Papers (Note e Memorie) Vol 1 Italy, 1921 1938 Reviewed by Enrico Persico, 1962 Nov p 181

Amis, Kingsley New Maps of Hell Reviewed by James R. Newman, 1960 July p 179 Anderson, Oscar E., Jr., and Richard G

Hewlett The New World, 1939/1946 Reviewed by James R Newman, 1962 Aug p 141 Andrade, E N da C Rutherford and the Nature of the Atom. Reviewed by Martin J Klein, 1965 Mar p 129

Arbib, Michael A Brains, Machines, and Mathematics Reviewed by J Bronowski, 1964 June p 130

Ardrey, Robert African Genesis Reviewed by Marshall D Sahlins, 1962 July p 169

Arem, Joel E. Man Made Crystals Reviewed by Philip Morrison, 1974 Aug p 113

Aries, Philippe Centuries of Childhood A Social History of Family Life Reviewed by Dennis H Wrong, 1963 Apr p 181

Arnold, Harry L. Jr., and Paul Fasal Lepros)
Diagnosis and Management Reviewed by
Philip Morrison, 1975 Mar p 126

Ashby, Sir Eric Technology and the Academics Reviewed by Asa Briggs, 1959 Oct. p 201 Ashby, W Ross Design for a Brain Reviewed

by Warren S McCulloch, 1953 May p 96
Astronomy Survey Committee Astronomy and
Astrophysics for the, 1970's Volume 1
Reviewed by Philip Morrison, 1973 Jan

p 123 Atkinson, Bruce W The Weather Business Observation, Analysis, Forecasting, and Modification Reviewed by Philip Morrison, 1970 May p 140

Austin, Robert, and Koichiro Ueda Bamboo Reviewed by Philip Morrison, 1970 Sept p 242

Avent, Anthony F, editor Archaeoastronomy in Pre Columbian America. Reviewed by Philip Morrison, 1976 Mar p 126

B

Bailyn Bernard, and Donald Fleming, editors The Intellectual Migration Europe and America, 1930 1960 Reviewed by Philip Mornson, 1969 Aug p 131

Baker, Robert A, editor A Stress Analysis of a Strapless Evening Gown. Reviewed by James R Newman, 1964 Sept p 243, Psychology in the Wry Reviewed by James R. Newman, 1964 Sept p 243

Barber, Bernard Water A View from Japan. Photographs by Dana Levy Reviewed by Philip Morrison, 1975 Feb. p. 111 Bargellini, P. L., editor Communications
Satellite Systems, Communications Satellite
Technology Reviewed by Philip Morrison,
1974 June p. 130

Barlow, Nora, editor The Autobiography of Charles Darwin, 1809 1882, with Original Omissions Restored Reviewed by George Gaylord Simpson, 1958 Aug p 117

Baron, Stanley The Desert Locust Reviewed by Philip Morrison, 1972 Nov p 127

Barrett, Paul H, transcriber and annotator
Darwin's early and unpublished notebooks
together with Darwin on Man. A Psychological
Study of Scientific Creativity, by Howard E
Gruber Reviewed by Philip Morrison, 1974
Oct. p. 138

Bass, Georg F Archaeology under Water Reviewed by Philip Morrison, 1973 Jan p 124

Batchelor, G. K., editor The Scientific Papers of Sir Geoffrey Ingram Taylor Volume IV, Mechanics of Fluids Miscellaneous Papers Reviewed by Philip Morrison, 1971 Nov

Beaglehole, J C The Life of Captain James Cook Reviewed by Philip Morrison, 1974 Nov p 137

Beale, Ivan L, and Michael C Corballis The Psychology of Left and Right Reviewed by Philip Morrison, 1977 Apr p 142

Bealer, Alex W Old Wass of Working Wood Reviewed by Philip Morrison 1973 Aug p 113

Beauvoir, Simone de *The Second Sex* Reviewed by Abraham Stone, 1953 Apr. p. 105

Reck Alan M. The Foology of Stray Dags. A.

Beck, Alan M The Ecology of Stray Dogs A Study of Free Ranging Urban Animals Reviewed by Philip Morrison, 1973 Aug. p 115

Beckenbach, Edwin, and Richard Bellman An Introduction to Inequalities Reviewed by Morris Kline, 1962 Jan p 157

Beddall, Barbara G, editor Wallace and Bates in the Tropics An Introduction to the Theory of Natural Selection Reviewed by Philip Morrison, 1969 Oct p 146

Bedini, Silvio A Thinkers and Tinkers Early American Men of Science Reviewed by Philip Morrison 1976 July p 132

- Bell, R C Board and Table Games from Many Civilizations Reviewed by James R Newman, 1961 Aug p 155
- Bell, Thomas M, and David H Adams Slow Viruses Reviewed by Philip Morrison, 1977 May p 140
- Bellman, Richard, and Edwin Beckenbach An Introduction to Inequalities Reviewed by Morris Kline, Reviewed by, 1962 Jan p 157
- Bennett, Isobel *The Great Barner Reef*Reviewed by Philip Morrison, 1974 Nov
 p 137
- Berelson, Bernard, and Gary A Steiner Human Behavior An Inventory of Scientific Findings Reviewed by Jules Henry, 1964 July p 129
- Berendzen, Richard, Richard Hart and Daniel Seeley Man Discovers the Galaxies Reviewed by Philip Morrison, 1977 Apr p 140
- Berg, George C, and Morton W Miller, editors

 Chemical Fallout Current Research on
 Persistent Pesticides Reviewed by Philip
 Morrison, 1970 Sept p 239
- Berger, Rainer, editor Scientific Methods in Medieval Archaeology Reviewed by Philip Morrison, 1971 July p 117
- Bergman, Abraham B, J Bruce Beckwith and C George Ray, editors Sudden Infant Death Syndrome Reviewed by Philip Morrison, 1971 Mar p 118
- Bernal, Ivan, Walter C Hamilton and John S Ricci Symmetry A Stereoscopic Guide for Chemists Reviewed by Philip Morrison, 1972 July p 118
- Bernal, J D Science in History Reviewed by N W Pirie, 1966 Mar p 131
- Bertin, Leonard Atom Harvest Reviewed by James R Newman, 1956 June p 141
- Bettelheim, Bruno, and Morris Janowitz

 Dynamics of Prejudice A Psychological and
 Sociological Study of Veterans Reviewed by
 Gordon W Allport, 1950 June p 56
- Beyerchen, Alan D Scientists under Hitler Politics and the Physics Community in the Third Reich Reviewed by Philip Morrison, 1978 May p 33
- Bianchini, Francesco, and Francesco Corbetta

 The Complete Book of Fruits and Vegetables
 Paintings in color by Marilena Pistoia

 Translated from the Italian by Italia and
 Alberto Manicelli Reviewed by Philip

 Morrison, 1976 Sept p 212
- Birch, G. G., L. F. Green and C. B. Coulson, editors *Sweetness and Sweeteners* Reviewed by Philip Morrison, 1972 Oct. p. 126
- Birks, J B, editor Rutherford at Manchester Reviewed by Martin J Klein, 1965 Mar p 129
- Blake, Ian F, and Bruce' J Walker Computer Security and Protection Structures Reviewed by Philip Morrison, 1977 Oct p 26
- Blix, Gunnar, Yngve Hofvander and Bo Vahlquist, editors Famine A Symposium Dealing with Nutrition and Relief Operations in Times of Disaster, conducted by the Swedish Nutrition Foundation and the Swedish International Development Authority Reviewed by Philip Morrison, 1972 Sept p 194
- Blum, H F Time's Arrow and Evolution Reviewed by Sir George Thomson 1952 Apr
- Blunt, Wilfrid, with the assistance of William T Stearn *The Complete Naturalist A Life of Linnaeus* Reviewed by Philip Morrison, 1973 Apr p 119

- Bohm, David Causality and Chance in Modern Physics Reviewed by James R Newman, 1958 Jan p 111
- Bolt, B A, W L Horn, G A Macdonald and R F Scott Geological Hazards Earthquakes-Tsunanus-Volcanoes-Avalanches-Landshdes Floods Reviewed by Philip Morrison, 1976 Jan p 134
- Bonner, John Tyler Cells and Societies
 Reviewed by Clifford Grobstein, 1956 Jan
 p 109
- Born, Max Natural Philosophy of Cause and Chance Reviewed by Sir Edmund Whittaker, 1950 Jan p 56
- Botting, Douglas Humboldt and the Cosmos Reviewed by Philip Morrison, 1974 Feb p 117
- Bouhuys, Arend Breathing Physiology, Environment and Lung Disease Reviewed by Philip Morrison, 1974 Sept p 202
- Bourdon, David Christo Reviewed by Philip Morrison, 1972 June p 133
- Bourgarly, Vance The Hound of Earth Reviewed by James R Newman, 1955 July p 96
- Bowden, Frank Philip, and David Tabor Friction An Introduction to Tribiology Reviewed by Philip Morrison, 1973 Oct p 128
- Bowen, Robert, and Ananda Gunatilaka

 Copper Its Geology and Economics Reviewed
 by Philip Morrison, 1978 Mar p 41
- Boyd, William C Genetics and the Races of Man Reviewed by L C Dunn, 1950 Dec p 58
- Bracewell, Ronald L The Galactic Club Intelligent Life in Outer Space Reviewed by Philip Morrison, 1975 May p 117
- Bradbury, Ray, Arthur C Clarke, Bruce Murray, Carl Sagan and Walter Sullivan Mars and the Mind of Man Reviewed by Philip Morrison, 1973 Oct p 127
- Bradley, David No Place to Hide Reviewed by James R Newman, 1949 Jan p 59
- Bradley, John L, editor Selections from "London Labour and the London Poor," by Henry Mayhew Reviewed by Asa Briggs 1966 July p 123
- Braithwaite, R B Scientific Explanation Reviewed by J Bronowski, 1953 140
- Brand, Stewart Two Cybernetic Frontiers Reviewed by Philip Morrison, 1974 Aug p 112
- Bridgman, Leonard, editor Jane's All the World's Aircraft 1949 50 Reviewed by James R Newman, 1950 Apr p 62
- Briggs, Lloyd Cabot *Tribes of the Sahura* Reviewed by James R Newman, 1960 Nov p. 217
- Brim, Orville G Jr., Howard E Freeman, Sol Levine and Norman A Scotch, editors *The* Ding Patient Reviewed by Philip Morrsion 1971 Nov p 129
- Broad C D Lectures on Psychical Research Reviewed by George A Miller 1963 Nov p 171
- Brody, J. J. Mimbres Painted Pottery Reviewed by Philip Morrison, 1978 Apr. p. 36
- Brodzky, Anne Trueblood, Rose Danesewich and Nick Johnson, editors Stones, Bones and Skin Ritual and Shamanic Art Reviewed by Philip Morrison, 1977 Nov p 31
- Broghe, Louis de Non Linear Wave Mechanics A Causal Interpretation Reviewed by P W Bridgman, 1960 Oct. p. 201
- Bronowski, J. The Ascent of Man. Reviewed by Philip Morrison 1974 Aug. p. 111

- Bronowski, J., and Bruce Mazlish *The Western Intellectual Tradition From Leonardo to Hegel* Reviewed by C. P. Snow, 1960 Sept p. 249
- Brooks, Stewart M. McBurney's Point The Story of Appendicitis Reviewed by Philip Morrison, 1972 Aug p. 122
- Brothwell, Don, and A T Sandison, editors

 Diseases in Antiquity A Survey of the Diseases,
 Injuries and Surgery of Early Populations

 Reviewed by Philip Morrison, 1969 Sept
 p 274
- Brown, C H Structural Materials in Animals Reviewed by Philip Morrison, 1976 Apr p 134
- Brown, G Spencer *Probability and Scientific Inference* Reviewed by Ernest Nagel, 1957 Dec p 155
- Brown, Lauren Weeds in Winter Reviewed by Philip Morrison, 1977 Mar p 142
- Brown, Lester R Seeds of Change The Green Revolution and Development in the, 1970 s Reviewed by Philip Morrison, 1970 June p 147
- Brown, Lloyd A The Story of Maps Reviewed by James R Newman, 1949 Oct p 56
- Bruner, Jerome S, Jacqueline J Goodnow and George A Austin A Study of Thinking Reviewed by Ernest Nagel, 1957 June p 153
- Buck, Pearl S Command the Morning
 Reviewed by V S Pritchett, 1959 July p 159
- Bugge, Thomas Science in France in the Revolutionary Era, edited by Maurice P Crosland Reviewed by Philip Morrison, 1971 Jan p. 118
- Bulliet, Richard W The Camel and the Wheel Reviewed by Philip Morrison, 1976 Feb
- Bulmer, M G The Biology of Twinning in Man Reviewed by Philip Morrison, 1971 Feb p 127
- Bunge, Mario Causality The Place of the Causal Principle in Modern Science Reviewed by Sidney Morgenbesser, 1961 Feb p 175
- Bunning, Erwin The Physiological Clock
 Cucadian Rhy thins and Biological
 Chronometry Reviewed by Philip Morrison
 1974 Apr p 123
- Burks, Arthur W., editor Collected Papers of Charles Sanders Pence Vol VII, Science and Philosophy Vol VIII, Reviews Correspondence and Bibliography Reviewed by Ernest Nagel 1959 Apr. p. 185
- Burrus H L Lamp Phosphors Reviewed by Philip Morrison 1974 Jan p 125
- Bush Douglas Science and English Poetry Reviewed by James R. Newman, 1950 Aug p. 56
- Bushnell Vivian C editor History of Antarctic Exploration and Scientific Investigation Antarctic Map Folio Series, Folio 19 Reviewed by Philip Morrison, 1977 Aug p. 132
- Busnel, R. G. and A. Classe. Whistled Languages. Reviewed by Philip Morrison 1977 May p. 141
- Butterfield Herbert The Origins of Modern Science Reviewed by James R Newman 1950 July p 56
- Butzer, Karl W. Earls Hydraulic Civilization in Feypt: A Study in Cultural Ecology. Reviewed by Philip Morrison, 1977 July p. 151

(

Cairns, John, Gunther S Stent and James D Watson, editors Phage and the Origins of Molecular Biology Reviewed by John C Kendrew, 1967 Mar p 141

Calaby, J H, and H J Frith Kangaroos Reviewed by Philip Morrison, 1971 Mar p 118

Calder, Nigel The Mind of Man Reviewed by Philip Morrison, 1971 May p 129, Restless Earth A Report on the New Geology Reviewed by Philip Morrison, 1972 July p 120, The Weather Machine Reviewed by Philip Morrison, 1975 June p 124

Calderone Mary Steichen, editor Abortion in the United States Reviewed by James R Newmann, 1959 Jan p 149

Cameron, A G W, editor Interstellar Communication Reviewed by James R Newman, 1964 Feb p 141

Campbell, Colin Design of Racing Sports Cars Reviewed by Philip Morrison, 1974 Sept p 204

Carson, Rachel Silent Spring Reviewed by Lamont C Cole, 1962 Dec p 173 Carthy, J D, and F J Ebling, editors The

Natural History of Aggression Reviewed by
Anatol Rapoport, 1965 Oct p 115

Caspar, Max Kepler Reviewed by Gerald Holton, 1960 Aug p 173

Cassirer, Ernst Determinism and Indeterminism in Modern Physics Reviewed by James R Newman, 1957 Mar p 147

Catherall, J A Fibre Reinforcement Reviewed by Philip Morrison, 1974 Jan p 125 Center for Short-Lived Phenomena Annual Report, 1970 Reviewed by Philip Morrison,

1971 Aug p 116
Ceram, C W Gods, Graves, and Scholars The
Story of Archaeology Reviewed by James R
Newman, 1952 Jan p 74

Chadwick, F.R.S., Sir James, editor The Collected Papers of Lord Rutherford of Nelson, Vol II Manchester Reviewed by Martin J Klein, 1965 Mar p 129

Chadwick, John *The Mycenaean World*Reviewed by Philip Morrison, 1977 Feb
p 128

Chang, K. C., editor Food in Chinese Culture Anthropological and Historical Perspectives Reviewed by Philip Morrison, 1978 Feb p 34

Chang Thomas Ming Swi Artificial Cells Reviewed by Philip Morrison, 1972 Nov p 128

Charles-Dominique, Pierre Ecology and Behaviour of Nocturnal Primates Prosimians of Equatorial West Africa Translated by R. D. Martin Reviewed by Philip Morrison 1978 Feb. p. 40

Chevallic Raymond Roman Roads Translated by N. H. Field Reviewed by Philip Morrison, 1977 Sept. p. 52

1977 Sept p 52
Churchman, C West The Design of Inquiring
Sistems Basic Concepts of Systems and
Organization Reviewed by Philip Morrison
1972 May p 128

1972 May p 128
Churchman C West and Philburn Ratoosh cditors Definitions and Theories Reviewed by Herbert Dingle, 1960 June p 189

Ciba I oundation Symposium Decision Making in National Science Policy Reviewed by Amos de Shalit, 1968 Nov p 159, Energy Transformation in Biological Systems Symposium 31. In Tribute to Fritz Lipmann on His 75th Birthday Reviewed by Philip Morrison, 1976 Aug p 111, Health and Disease in Tribal Societies Symposium 49 (new series) Reviewed by Philip Morrison, 1978 May p 38

Cipolla, Carlo M Cristofano and the Plague A Study in the History of Public Health in the Age of Galileo Reviewed by Philip Morrison, 1973 Sept p 192

Clark, Cohn Population Growth and Land Use Reviewed by Kingsley Davis, 1968 Apr p 133

Clark, David H, and F Richard Stephenson The Historical Supernovae Reviewed by Philip Morrison, 1978 Jan p 28 Clark, Ronald W The Huxleys Reviewed by

Clark, Ronald W The Huxleys Reviewed by Robert M Adams, 1968 Oct p 135

Clarke, Edwin, and Kenneth Dewhurst
An Illustrated History of Brain Function
Reviewed by Philip Morrison, 1973 Nov
p 132

Classe, A, and R G Busnel Whistled Languages Reviewed by Philip Morrison, 1977 May p 141

Clayre, Alasdair Work and Play Ideas and Experience of Work and Leisure Reviewed by Philip Morrison, 1976 July p 135

Cohen, I Bernard Introduction to Newton's "Principia" Reviewed by Philip Morrison, 1972 June p 132

Cohen, I Bernard, and Alexandre Koyre, editors Philosophiae Naturalis Principia Mathematica Volume I and Volume II Reviewed by Philip Morrison, 1972 June p 132

Colbert, Edwin H Men and Dinosaurs The Search in Field and Laboratory Reviewed by Philip Morrison, 1969 Jan p 134

Cole, Jonathan R., and Stephen Cole Social Stratification in Science Reviewed by Philip Morrison, 1974 June p 129

Cole, Sonia Leakey's Luck The Life of Louis Seymour Bazett Leakey, 1903 1972 Reviewed by Philip Morrison, 1976 Sept p 216

Coles, John Archeology by Experiment
Reviewed by Philip Morrison, 1977 Oct p 28
Collias, Nicholas E, and Elsie C Collias,
editors External Construction by Animals

Reviewed by Philip Morrison, 1977 June p 136 Colodny, Robert G, editor Beyond the Edge of Certainty Essays in Contemporary Science and

Philosophy Reviewed by Max Black, 1965
Aug p 109
Colp, Ralph, Jr To Be an Invalid The Illness of
Charles Darwin Reviewed by Philip

Morrison, 1977 Oct p 30
Conant, James B Education in a Divided World
Reviewed by James R Newman, 1948 Dec
p 54

Condon Edward U, scientific director Scientific Study of Unidentified Flying Objects Edited by Daniel S Gillmor Reviewed by Philip Morrison, 1969 Apr p 139

Conrat, Maisie, and Richard Conrat. The American Farm. A Photographic History Reviewed by Philip Morrison, 1977 June p. 140

Cook, Robert C Human Fertility The Modern Dilemma Reviewed by L S Penrose 1951 Aug p 65 Coon Carleton S The Origin of Races

Coon Carleton S The Origin of Races
Reviewed by Theodosius Dobzhansky, 1963
Full p. 169

Cooper, Henry S. F., Jr. Thirteen The Flight That Failed. Reviewed by Philip Morrison, 1973 May p. 115 Corballis, Michael C, and Ivan L Beale *The*Psychology of Left and Right Reviewed by
Philip Morrison, 1977 Apr p 142

Corbetta, Francesco, and Francesco Bianchini
The Complete Book of Fruits and Vegetables
Paintings in color by Marilena Pistoia
Translated from the Italian by Italia and
Alberto Manicelli Reviewed by Philip
Morrison, 1976 Sept p 212

Corby, G. A., editor The Global Circulation of the Atmosphere Reviewed by Philip Morrison, 1971 July p. 118

Corner, E J H The Natural History of Palms Reviewed by Philip Morrison, 1970 Sept p 242

Corner, George W, editor The Autobiography of Benjamin Rush Reviewed by James R Newman, 1949 Jan p 56

Costa, Richard Hauer H G Wells Reviewed by Robert M Adams, 1967 July p 124

Crane, Eva, editor Honey A Comprehensive Survey Reviewed by Philip Morrison, 1976 Apr p 132

Cronbach, Lee J Essentials of Psychological Testing Reviewed by Henry S Dyer, 1951 Sept p 110

Crosby, Alfred W, Jr Epidemic and Peace 1918 Reviewed by Philip Morrison, 1976 Nov p 138

Crosland, Maurice P, editor Science in France in the Revolutionary Era, Described by Thomas Bugge Reviewed by Philip Morrison, 1971 Jan p 118

Crow, James F, and Motoo Kimura An Introduction to Population Genetics Theory Reviewed by Philip Morrison, 1970 Nov p 126

Curry, S. H., and C. R. B. Joyce, editors. The Botany and Chemistry of Cannabis. Reviewed by Philip Morrison, 1971 Sept. p. 238.

Curtis, Charles P. The Oppenheimer Case. Reviewed by Alfred McCormack. 1955 Oct.

Reviewed by Alfred McCormack, 1955 Oct p 112

Curtis, Helena Biology Reviewed by Salvador E Luria, 1969 Mar p 131

Cushing, David *The Detection of Fish*Reviewed by Philip Morrison, 1974 Mar
p 119

D

Danloux-Dumesnils, Maurice The Metric
System A Critical Study of Its Principles and
Practice Translated from the French by Anne
Garrett and J S Rowlinson Reviewed by
Philip Morrison, 1971 Jan p 118

Darlington, C D The Facts of Life Reviewed by A E Mirsky, 1954 Apr p 92

Darwin, Charles Galton The Next Million Years Reviewed by James R Newman, 1952 Sept p 165

Davidson, Marshall B, editor The Original Water-Color Paintings by John James Audubon for the Birds of America. Reviewed by Robert M Mengel, 1967 May p 155

Davies, D P Handling the Big Jets Reviewed by Philip Morrison, 1976 July p 134

Davies, Merton E, and Bruce C Murray The View from Space Photographic Exploration of the Planets Reviewed by Philip Morrison, 1972 Apr p 113 Davies, P C W The Physics of Time

Davies, P. C. W. The Physics of Time Asymmetry. Reviewed by Philip Morrison, 1975 Aug. p. 124

- Bell, R C Board and Table Games from Many Civilizations Reviewed by James R Newman, 1961 Aug p 155
- Bell, Thomas M, and David H Adams Slow Viruses Reviewed by Philip Morrison, 1977 May p 140
- Bellman, Richard, and Edwin Beckenbach. An Introduction to Inequalities. Reviewed by Morris Kline, Reviewed by, 1962 Jan. p. 157
- Bennett, Isobel *The Great Barrier Reef*Reviewed by Philip Morrison, 1974 Nov
 p 137
- Berelson, Bernard, and Gary A Steiner Human Behavior An Inventory of Scientific Findings Reviewed by Jules Henry, 1964 July p 129
- Berendzen, Richard, Richard Hart and Daniel Seeley Man Discovers the Galaxies Reviewed by Philip Morrison, 1977 Apr p 140
- Berg, George C, and Morton W Miller, editors Chemical Fallout Current Research on Persistent Pesticides Reviewed by Philip Morrison, 1970 Sept p 239
- Berger, Rainer, editor Scientific Methods in Medieval Archaeology Reviewed by Philip Morrison, 1971 July p 117
- Bergman, Abraham B, J Bruce Beckwith and C George Ray, editors Sudden Infant Death Syndrome Reviewed by Philip Morrison, 1971 Mar p 118
- Bernal, Ivan, Walter C Hamilton and John S Ricci Symmetry A Stereoscopic Guide for Chemists Reviewed by Philip Morrison, 1972 July p 118
- Bernal, J D Science in History Reviewed by N W Pirie, 1966 Mar p 131
- Bertin, Leonard Atom Harvest Reviewed by James R Newman, 1956 June p 141
- Bettelheim, Bruno, and Morris Janowitz

 Dynamics of Prejudice A Psychological and
 Sociological Study of Veterans Reviewed by
 Gordon W Allport, 1950 June p 56
- Beyerchen, Alan D Scientists under Hitler Politics and the Physics Community in the Third Reich Reviewed by Philip Morrison, 1978 May p 33
- Bianchini, Francesco, and Francesco Corbetta

 The Complete Book of Fruits and Vegetables
 Paintings in color by Marilena Pistoia
 Translated from the Italian by Italia and
 Alberto Manicelli Reviewed by Philip
 Morrison, 1976 Sept p 212
- Birch, G. G., L. F. Green and C. B. Coulson, editors. Sweetness and Sweetners. Reviewed by Philip Morrison, 1972. Oct. p. 126
- Birks, J. B., editor Rutherford at Manchester Reviewed by Martin J. Klein, 1965 Mar p. 129
- Blake, Ian F, and Bruce'J Walker Computer Security and Protection Structures Reviewed by Philip Morrison, 1977 Oct p 26
- Blix, Gunnar, Yngve Hofvander and Bo Vahlquist, editors Famme A Symposium Dealing with Nutrition and Relief Operations in Times of Disaster, conducted by the Swedish Nutrition Foundation and the Swedish International Development Authority Reviewed by Philip Morrison, 1972 Sept p 194
- Blum, H F Time's Arrow and Evolution
 Reviewed by Sir George Thomson, 1952 Apr
- Blunt, Wilfrid, with the assistance of William T Stearn *The Complete Naturalist A Life of Linnacus* Reviewed by Philip Morrison, 1973 Apr p. 119

- Bohm, David Causality and Chance in Modern Physics Reviewed by James R Newman, 1958 Jan p 111
- Bolt, B A, W L Horn, G A Macdonald and R F Scott Geological Hazards Earthquakes-Tsunamis Volcanoes Avalanches Landshdes-Floods Reviewed by Philip Morrison, 1976 Jan p 134
- Bonner, John Tyler Cells and Societies
 Reviewed by Clifford Grobstein, 1956 Jan
 p 109
- Born, Max Natural Philosophy of Cause and Chance Reviewed by Sir Edmund Whittaker, 1950 Jan p 56
- Botting, Douglas Humboldt and the Cosmos Reviewed by Philip Morrison, 1974 Feb p 117
- Bouhuys, Arend Breathing Physiology, Environment and Lung Disease Reviewed by Philip Morrison, 1974 Sept p 202
- Bourdon, David Christo Reviewed by Philip Morrison, 1972 June p 133
- Bourjaily, Vance The Hound of Earth Reviewed by James R Newman, 1955 July p 96
- Bowden, Frank Philip, and David Tabor Friction An Introduction to Tribiology Reviewed by Philip Morrison, 1973 Oct p 128
- Bowen, Robert, and Ananda Gunatilaka

 Copper Its Geology and Economics Reviewed
 by Philip Morrison, 1978 Mar p 41
- Boyd, William C Genetics and the Races of Man Reviewed by L C Dunn, 1950 Dec p 58
- Bracewell, Ronald L The Galactic Club Intelligent Life in Outer Space Reviewed by Philip Morrison, 1975 May p 117
- Bradbury, Ray, Arthur C Clarke, Bruce Murray, Carl Sagan and Walter Sullivan Mars and the Mind of Man Reviewed by Philip Morrison, 1973 Oct p 127
- Bradley David No Place to Hide Reviewed by James R Newman, 1949 Jan p 59
- Bradley, John L, editor Selections from "London Labour and the London Poor," by Henry Mayhew Reviewed by Asa Briggs, 1966 July p 123
- Braithwaite, R B Scientific Explanation Reviewed by J Bronowski 1953 140
- Brand Stewart Two Cybernetic Frontiers
 Reviewed by Philip Morrison 1974 Aug
 p 112
- Bridgman, Leonard, editor Jane's All the World's Aircraft, 1949 50 Reviewed by James R Newman 1950 Apr p 62
- Briggs Lloyd Cabot *Tribes of the Sahara* Reviewed by James R. Newman, 1960 Nov p. 217
- Brim, Orville G. Jr., Howard E. Freeman. Sol. Levine and Norman A. Scotch, editors. *The Dring Patient*. Reviewed by Philip Morrsion. 1971 Nov. p. 129
- Broad C D Lectures on Psychical Research Reviewed by George A Miller 1963 Nov p 171
- Brody J J Mimbres Painted Potters Reviewed by Philip Morrison, 1978 Apr p 36
- Brodzky Anne Trueblood Rose Danesewich and Nick Johnson, editors Stones Bones and Skin Ritual and Shamanic Art Reviewed by Philip Morrison 1977 Nov. p. 31
- Broglie, Louis de Non Linear Wave Mechanics 1 Ca wal Interpretation Reviewed by P. W. Bridgman, 1960 Oct. p. 201
- Bronowski, J. The Iscent of Man Reviewed by Philip Morrison, 1974 Aug. p. 111

- Bronowski, J., and Bruce Mazlish The Western Intellectual Tradition From Leonardo to Hegel Reviewed by C. P. Snow, 1960 Sept. p. 249
- Brooks, Stewart M. McBurney's Point The Story of Appendicins. Reviewed by Philip Morrison, 1972 Aug. p. 122
- Brothwell, Don, and A. T. Sandison editors

 Diseases in Antiquity. A Survey of the Diseases,
 Injuries and Surgery of Early Populations.

 Reviewed by Philip Morrison, 1969 Sept.
 p. 274
- Brown, C. H. Structural Materials in Animals. Reviewed by Philip Morrison, 1976 Apr p. 134
- Brown, G Spencer Probability and Scientific Inference Reviewed by Ernest Nagel, 1957 Dec p 155
- Brown, Lauren Weeds in Winter Reviewed by Philip Morrison, 1977 Mar p 142
- Brown, Lester R Seeds of Change The Green Revolution and Development in the, 1970 s Reviewed by Philip Morrison 1970 June p 147
- Brown, Lloyd A The Story of Maps Reviewed by James R Newman, 1949 Oct p 56
- Bruner, Jerome S., Jacquehne J. Goodnow and George A. Austin. A Study of Thanking Reviewed by Ernest Nagel, 1957 June p. 153
- Buck, Pearl S Command the Morning
 Reviewed by V S Pritchett, 1959 July p 159
 Rugge Thomas Square w France in the
- Bugge, Thomas Science in France in the Revolutionary Era, edited by Maurice P Crosland Reviewed by Philip Morrison, 1971 Jan p 118
- Builtet, Richard W The Camel and the Wheel Reviewed by Philip Morrison 1976 Feb p. 135
- Bulmer, M G The Biology of Twinning in Mail Reviewed by Philip Morrison, 1971 Feb p 127
- Bunge, Mario Causalus The Place of the Causal Principle in Modern Science Research by Sidney Morgenbesser, 1961 Feb p 175
- Bunning, Erwin The Physiological Clock
 Cucadian Rhythms and Biological
 Chronometry Reviewed by Philip Morrison
 1974 Apr p 123
- Burks Arthur W., editor Collected Papers of Charles Sanders Peirce Vol VII, Science and Philosophy Vol VIII, Reviews Correspondence and Bibliography Reviewed by Ernest Nagel, 1959 Apr. p. 185
- Burrus H L Lamp Phosphors Reviewed by Philip Morrison 1974 Jan p 125
- Bush Douglas Science and English Poetry Reviewed by James R. Newman, 1950 Augp. 26
- Bushnell Vivian C editor History of Antarctic Exploration and Scientific Investigation Antarctic Map Folio Scries, Folio 19 Reviewed by Philip Morrison, 1977 Aug p. 132
- Busnel, R. G. and A. Classe. Whistled Languages. Reviewed by Philip Morrison 1977 May p. 141
- Butterfield Herbert The Origins of Modern Science Reviewed by James R Newman 1950 July p 56
- Butzer Karl W. Larly Hydraulic Civilization in Egypt A Study in Cultural Ecology Resigned by Philip Mortison, 1977 July p. 151

- Fleming, Stuart J Authenticity in Art The Scientific Detection of Forgery Reviewed by Philip Morrison, 1976 Nov p 146
- Flint, Richard Foster Glacial and Quaternary Geology Reviewed by Philip Morrison, 1973 Apr p 120
- Florkin, Marcel, and Elmer H Stotz, editors Comprehensive Biochemistry Reviewed by Alexander Richard, 1969 Feb p 126
- Flowerman, Samuel H, and Max Horkheimer, editors Studies in Prejudice Reviewed by Gordon W Allport, 1950 June p 56
- Fogg, G E, W D P Stewart, P Fay and A E Walsby *The Blue Green Algae* Reviewed by Philip Morrison, 1974 May p 134
- Fox, James J Harvest of the Palm Ecological Change in Eastern Indonesia Reviewed by Philip Morrison, 1978 Mar p 33
- Fraiberg, Selma, with the collaboration of Louis Fraiberg Insights from the Blind Comparative Studies of Blind and Sighted Infants Reviewed by Philip Morrison, 1977 Nov p 32
- Fraument, Joseph F, Jr, editor Persons at High Risk of Cancer An Approach to Cancer Etiology and Control Reviewed by Philip Morrison, 1976 Sept p 213
- Fricke, Hans W The Coral Seas Wonders and Mysteries of Underwater Life Reviewed by Philip Morrison, 1974 Nov p 137
- Frith, H J, and J H Calaby Kangaroos Reviewed by Philip Morrison, 1971 Mar p 118
- Fromm, Erich May p Man Prevail? Reviewed by James R. Newman, 1962 Feb p 177
- Fromm, Erika, and Ronald E Shor, editors
 Hypnosis Research Developments and
 Perspectives Reviewed by Philip Morrison
 1973 Aug p 112
- Froome K D, and L Essen The Velocity of Light and Radio Waves Reviewed by Philip Morrison 1970 Aug p 124

6

- Gamow, George My World Line An Informal Autobiography Reviewed by Philip Morrison, 1970 June p 146
- Garlake, P.S. *Great Zimbabwe* Reviewed by Philip Morrison 1974 Jan p 123
- Gaston Jerry Originality and Competition in Science A Study of the British High Energy Physics Community Reviewed by Philip Morrison 1974 June p 129
- Gay Peter (introduction) and Rita Ransohoff (captions) Beregasse 19 Sigmund Freud's Home and Offices, Vienna 1938, the Photographs of Edmund Engelman Reviewed by Philip Morrison, 1977 Mar p 142
- Gehrels T editor Planets Stars and Nebulae Studies with Photopolarimetry Reviewed by Philip Morrison 1974 Nov p 140
- Gets Irving and Albert S Klainer Agents of Bacterial Disease Reviewed by Philip Morrison 1974 May p 134 Gelb I J 1 Study of Writing Reviewed by
- Gelb I J 1 Study of Writing Reviewed by James R Newman, 1952 Oct p 85 Geller Uri My Story Reviewed by Philip Morrison 1976 Feb p 134
- Gellhorn Walter Security, Loyalty and Science Reviewed by I Rabi 1951 Jan p 56
- Gellner Ernest Words and Things A Critical Account of Linguistic Philosophy and a Study in Bicology Reviewed by Morton White 1960 Mar p 205

- Gernsheim, Helmut and Alison *The History of Photography* Reviewed by James R Newman, 1956 May p. 133
- Gerster, Georg Grand Design The Earth from Above Reviewed by Philip Morrison, 1977 June p 138
- Geyer, Richard A, editor Submersibles and Their Use in Oceanography and Ocean Engineering Reviewed by Philip Morrison, 1978 Mar p 30
- Giese, Arthur C, with the collaboration of Shōichirō Suzuki, Robert A Jenkins, Henry I Hirshfield, Irwin R Isquith and Ann M DiLorenzo Blepharisma The Biology of a Light-Sensitive Protozoan Reviewed by Philip Morrison, 1973 June p 119
- Gillett, J D Mosquitos Reviewed by Philip Morrison, 1972 May p 130
- Gillmor, Daniel S, editor Scientific Study of Unidentified Flying Objects Directed by Edward U Condon Reviewed by Philip Morrison, 1969 Apr p 139
- Ginzburg, V. L. Key Problems of Physics and Astrophysics Translated from the Russian by Oleg Glebov Reviewed by Philip Morrison, 1978 Feb. p. 44
- Glob, P V The Bog People Iron-Age Man Preserved Translated from the Danish by Rupert Bruce-Mitford Reviewed by Philip Morrison, 1970 Feb p 122, The Mound People Danish Bronze Age Man Preserved Translated from the Danish by Joan Bulman Reviewed by Philip Morrison, 1975 Apr p 143
- Gnudi, Martha Teach, translator The Various and Ingenious Machines of Agostino Ramelli (1588), translation from the Italian and the French, with biographical study of author Technical annotations and a pictorial glossary by Eugene S Ferguson Reviewed by Philip Morrison, 1977 Feb p 128
- Goddard, Robert Hutchins Rocket
 Development Reviewed by Peter van Dresser,
 1949 Apr p 56
- Gold, Reynold, and Ian Shine Serendipity in St Helena A Genetical and Medical Study of an Isolated Community Reviewed by Philip Morrison, 1970 Nov p 126
- Goldspink, G, and R McN Alexander, editors Mechanics and Energetics of Animal Locomotion Reviewed by Philip Morrison, 1978 Apr p 34
- Goldstine, Herman H The Computer from Pascal to von Neumann Reviewed by Philip Morrison, 1973 Mar p 121
- Gombrich, E. H., and R. L. Gregory, editors

 Illusion in Nature and Art. Reviewed by Philip

 Morrison, 1975 June p. 123
- Good, I J editor *The Scientist Speculates*Reviewed by James R Newman, 1964 Sept
 p 243
- Gordon Janet L, and F E Roach *The Light of the Night Sky* Reviewed by Philip Morrison, 1974 Oct p 135
- Gorer Geoffrey The American People Reviewed by Ralph Linton, 1948 May p 58 Gotto R V Marine Animals Parinerships and
- Other Associations Reviewed by Philip Morrison 1970 Feb p 122 Gould, D W The Top Universal Tov. Enduring
- Pastime Reviewed by Philip Morrison, 1974 Apr p 124 Gould Richard A Ymara Foragers of the fusirahan Desert Reviewed by Philip
- Morrison, 1970 Nov p 130 Graham lan Corpus of Maya Hieroelyphic Inscriptions Volume 1 Introduction to the

- Corpus Reviewed by Philip Morrison, 1977 Sept p 46
- Graham, Ian, and Eric von Euw Corpus of Maya Hieroglyphic Inscriptions, Volume 2 Part 1 Reviewed by Philip Morrison, 1977 Sept p 46
- Grazia, Sebastian de Of Time, Work, and Leisure Reviewed by Kenneth E Boulding, 1963 Jan p 157
- Green, Timothy The Smugglers An Investigation into the World of the Contemporary Smuggler Reviewed by Philip Morrison, 1970 Mar p 141
- Greenberg, Bernard Flies and Disease, Volume 1 Ecology, Classification and Biotic Associations, Volume II Biology and Disease Transmission Reviewed by Philip Morrison, 1973 Nov p 131
- Greenberg, Daniel S The Politics of Pure Science Reviewed by Victor F Weisskopf, 1968 Mar p 139
- Gregory, Richard L. The Intelligent Eye Reviewed by Philip Morrison, 1970 Nov p 129, Concepts and Mechanisms of Perception Reviewed by Philip Morrison, 1975 June p 123
- Gregory, R. L., and E. H. Gombrich, editors Illusion in Nature and Art. Reviewed by Philip Morrison, 1975 June p. 123
- Gregory, William King Evolution Emerging Reviewed by Alfred S Romer, 1951 July p 64
- Grodzins, Morton *The Loyal and the Disloy al* Reviewed by Harry L. Shapiro, 1956 July p 120
- Grosser, Morton The Discovery of Neptune Reviewed by James R Newman, 1963 Mar p 169
- Groves, Leslie R Now It Can Be Told
 Reviewed by James R Newman, 1962 Aug
 p. 141
- Gruber, Howard E Darwin on Man A
 Psychological Study of Scientific Creativity,
 together with Darwin's early and unpublished
 notebooks, transcribed and annotated by Paul
 H Barrett Reviewed by Philip Morrison,
 1974 Oct p 138
- Gunatilaka, Ananda, and Robert Bowen

 Copper Its Geology and Economics Reviewed
 by Philip Morrison, 1978 Mar p 41

 Gutkind F. A. Our World from the Are
- Gutkind, E. A. Our World from the Air Reviewed by James R. Newman, 1953 Mar p. 96

H

- Haag, Ernest van den, and Ralph Ross The Fabric of Society An Introduction to the Social Sciences Reviewed by M Brewster Smith, 1958 Feb p 123
- Haas, Robert Bartlett Muybridge Man in Motion Reviewed by Plulip Morrison, 1976 June p. 128
- Hacking, Ian The Emergence of Probability A Philosophical Study of Early Ideas about Probability, Induction and Statistical Inference Reviewed by Philip Morrison, 1976 Apr p 133
- Hamlin, Talbot, editor Forms and Functions of Twentieth-Century Architecture Reviewed by Frederick Gutheim, 1952 July p 77
- Handler, Philip, editor Biology and the Future of Man Reviewed by Alfred E Mirsky, 1970 Oct p 135

Davis, Philip J The Lore of Large Numbers
Reviewed by Morris Kline, 1962 Jan p 157
de Beauvoir, Simone The Second Sex Reviewed
by Abraham Stone, 1953 Apr p 105

de Broghe, Louis Non Linear Wave Mechanics A Causal Interpretation Reviewed by P W Bridgman, 1960 Oct p 201

Dechend, Hertha von, and
Giorgio de Santillana, Hamlet's Mill An
Essay on Myth and the Frame of Time
Reviewed by Philip Morrison, 1969 Nov
p 159

de Grazia, Sebastian Of Time, Work, and Leisure Reviewed by Kenneth E Boulding, 1963 Jan p 157

Deigado, Jose M. R. Physical Control of the Mind Toward a Psychocivilized Society Reviewed by Philip Morrison, 1970 Jan p. 141

Delly, John Gustav, and Walter C McCrone
The Particle Atlas, Edition*Two An
Encyclopedia of Techniques for Small Particle
Identification Reviewed by Philip Morrison,
1974 July p 134

de Santillana, Giorgio, editor Galileo's Dialogue on the Great World Systems Reviewed by Ernest Nagel, 1953 Oct p 140

de Santillana, Giorgio, and Hertha von Dechend Hamlet's Mill An Essay on Myth and the Frame of Time Reviewed by Philip Morrison, 1969 Nov p 159

Dethier, V G The Hungry Fly A Physiological Study of the Behavior Associated with Feeding Reviewed by Philip Morrison, 1977 Jan p 122

de Vaucouleurs, Gerard, Antoinette de Vaucouleurs and Harold G Corwin, Jr Second Reference Catalogue of Bright Galaxies Reviewed by Philip Morrison, 1977 Apr p 140

DeVore, Irven, and Richard B Lee, editors

Man the Hunter Reviewed by Philip

Morrison, 1969 Oct p 142

Dewhurst, Kenneth, and Edwin Clarke An Illustrated History of Brain Function Reviewed by Philip Morrison, 1973 Nov p 132

Dibner, Bern Moving the Obelisks Reviewed by Philip Morrison, 1970 Aug p 123

Dickson, Paul Think Tanks Reviewed by Philip Morriosn, 1972 July p 119

Dyksterhuis, E. J. The Mechanization of the World Picture Reviewed by A. Rupert Hall 1961 Dec. p. 177

Dobbs, Betty Jo Teeter The Foundations of Newton's Alchemy, or "The Hunting of the Greene Lyon" Reviewed by Philip Morrison 1976 Aug p 113

Dobzhansky, Theodosius Mankind Evolving
The Evolution of the Human Species Reviewed
by Sir Gavin de Beer, 1962 Sept p 265, The
Biology of Ultimate Concern Reviewed by H
Bentley Glass 1968 Feb p 133

Doll, Richard Prevention of Cancer Pointers from Epidemiology Reviewed by Philip Morrison, 1970 May p 140

Donohue, Jerry The Structures of the Elements Reviewed by Philip Motrison, 1976 May p 126

Donovan, Frank Prepare Now for a Metric Future Reviewed by Philip Morrison 1971 Jan p 118

Dorson, Richard M., editor Folkiales Told around the World Reviewed by Philip Morrison, 1976 Oct. p. 139 Douglas, A Vibert Arthur Stanley Eddington Reviewed by James R Newman, 1958 July 116

Drake, Stillman, editor and translator

Discoveries and Opinions of Galileo Reviewed
by James R Newman, 1957 Oct p 155

Dronamraju, K. R., editor Haldane and Modern Biology Reviewed by Philip Morrison, 1969 Jan p 134

Dubos, Rene Louis Pasteur Free Lance of Science Reviewed by I Bernard Cohen, 1950 Feb p 56, The Dreams of Reason Science and Utopias Reviewed by Ernest Nagel, 1961 Nov p 189

Duhem, Pierre The Aim and Structure of Physical Theory Reviewed by Max Black, 1954 Aug p 78

Dumont, Rene, and Bernard Rosser The Hungry Future Translated from the French by Rosamund Linell and R B Sutchiffe Reviewed by Philip Morrison, 1970 June p 147

Duncan, Hugh Dalziel Communication and Social Order Reviewed by Kenneth E Boulding, 1963 Jan p 157

F

Eames, office of Charles and Ray A Computer Perspective Reviewed by Philip Morrison, 1973 Mar p 121

Ebling, F. J., and J. D. Carthy, editors The Natural History of Aggression Reviewed by Anatol Rapoport, 1965 Oct. p. 115

Eckert, W J, and Rebecca Jones Faster, Faster Reviewed by James R Newman, 1957 Jan p 125

Edgerton Samuel Y Jr The Renaissance Rediscovery of Linear Perspective Reviewed by Philip Morrison, 1977 July p 146

Edwards, C A and J R Lofty Biology of Earthworms Reviewed by Philip Morrison, 1974 June p 133

Efron Damel H, editor Psychotomimetic Drugs Reviewed by Philip Morrison, 1970 Aug p 126

Eisenberg D and W Kauzmann The Structure and Properties of Water Reviewed by Philip Morrison 1969 Sept p 265

El-Baz Farouk, and L J Kosofsky The Moon as Viewed by Lunar Orbiter Reviewed by Philip Morrison, 1971 Feb p 125

Elder John The Bowels of the Earth Reviewed by Philip Morrison, 1977 Feb p 133

Ellern, Herbert Military and Collian

Pyrotechnics Reviewed by Philip Mortison
1969 Apr p 140

Ellul Jacques The Technological Society Reviewed by A Rupert Hall 1965 Feb p 125

Emmel Thomas C Butterflies Reviewed by Philip Morrison 1976 Feb p 136

Erikson Erik H. Gandhi s Truth On the Origins of Militant Nonviolence Reviewed by S Gopal 1970 Apr p. 122

Erikson, Kai T Everything in Its Path Destruction of Community in the Buffalo Creek Flood Reviewed by Philip Morrison 1977 Aug p 135

Ernst, Bruno The Magic Mirror of M C Escher Reviewed by Philip Morrison 1977 July p 146

Essen, L. and K. D. Froome. The Velocity of Light and Radio Wares. Reviewed by Philip Morrison, 1970. Aug. p. 124 Euw, Eric von, and Ian Graham Corpus of Maya Hieroglypluc Inscriptions Volume 2 Part I Reviewed by Philip Morrison 1977 Sept p 46

Everitt, C W F James Clerk Maxwell Physicist and Natural Philosopher Reviewed by Philip Morrison, 1976 May p 127

F

Fagg, William, editor The Living Arts of Nigeria Illustrated by Michael Foreman Photographs by Harri Peccinotti Reviewed by Philip Morrison, 1973 Aug p 113 Fakhry, Ahmed The Pyranuds Reviewed by

Philip Morrison, 1974 Oct p 136
Falk, Richard A, and Saul H Mendloutz,
editors The Strategy of World Order Vol 1
Toward a Theory of War Prevention Vol 11
International Law, Vol 111, The United
Nations, Vol IV, Disarmament and Economic
Development Reviewed by Anatol Rapoport

1966 Oct p 129
Farina, M, and G Natta Stereochemistry
Translated by A Dempster Reviewed by
Philip Morrison, 1974 Mar p 122

Farrington, Benjamin Francis Bacon Reviewed by James R Newman, 1950 Mar p 56 Fasal, Paul, and Harry L Arnold, Ir Lepron Diagnosis and Management Reviewed by Philip Morrison, 1975 Mar p 126

Feld, B T, T Greenwood G W Rathjens and S Weinberg, editors Impact of New Technologies on the Arms Race Reviewed by Philip Morrison, 1971 June p 132

Feld, Bernard T, and Gertrud Weiss Szilard editors with Kathleen R Winsor The Collected Works of Leo Szilard Scientific Papers Reviewed by Philip Morrison 1973 July p 117

Ferris, Timothy The Red Limit The Search for the Edge of the Universe Reviewed by Philip Morrison 1977 Sept p 52

Feuer, Lewis S The Scientific Intellectual The Psychological & Sociological Origins of Modern Science Reviewed by A Rupert Hall 1963 Aug p 129

Field, George B Halton Arp and John N Bahcall The Redshift Controvers: Reviewed by Philip Morrison 1974 Sept p 206 Fisher Harold W and Robley C Williams An Electron Micrographic Alass of Virgus

Electron Micrographic Atlas of Vinuses
Reviewed by Philip Morrison 1975 Apr
p 143

Fisher James Noel Simon Jack Vincent et il Wildlife in Danger Reviewed by Philip Morrison 1969 Nov p 162

Fisher John C Energy Crisis in Perspective Reviewed by Philip Morrison 1974 July p 132

Fitch, James Marston Architecture and the Esthetics of Plenty Reviewed by Serge Chermayelf 1962 June p. 183 American Building 2. The Empronmental Forces that Shape It Reviewed by Philip Morrison 1975 Feb. p. 109

Fleischer Robert L. P. Buford Price and Robert M. Walker. Nuclear Fracks in Schils Principles & Ipplications. Reviewed by Halip Morrison, 1976. May p. 124

Fleming Donald and Bernard Budyn editers
The Intel'ectual Migration Tur pe and
Interior, 1930-1960 Reviewed by Philip
Morrison 1969 Aug. p. 131

et Robert Brighter than a Thousand Suns A Personal History of the Atomic Scientists Reviewed by Robert R Wilson, 1958 Dec p 145

K

(ahl, Russell, editor Selected Writings of Hermann von Helmholtz Reviewed by Philip Morrison, 1972 Apr p 114

hhn Herman On Thermonuclear War Reviewed by James R Newman, 1961 Mar

Paller Anthony, editor Sleep Physiology and Pathology Reviewed by Philip Morrison, 1970 Aug p 126

alten, Harry, Jr, and Hans Zeisel, with the collaboration of Thomas Callahan and Philip Ennis *The American Jur*; Reviewed by Mark DeWolfe Howe, 1966 Sept p 295

Kamin, Leon J The Science and Politics of 1 Q Reviewed by David Layzer, 1975 July p 126 Kane, J, and A G Massey Boson Reviewed by Philip Morrison, 1974 Jan p 125

Kaufmann, Walter Hegel Reinterpretation, Texts, and Commentary Reviewed by Ernest Nagel, 1965 Nov p 133

Kaul, Jamath, and Lal C Verman, editors Metric Change in India Reviewed by Philip Morrison, 1971 Jan p 118

Kauzmann, W, and D Eisenberg The Structure and Properties of Water Reviewed by Philip Morrison, 1969 Sept p 265

Kay, H F The Science of Yachts Wind & Water Reviewed by Philip Morrison 1972 Sept p 204

Kazarnoff, Nicholas D Geometric Inequalities
Reviewed by Morris Kline, 1962 Jan p 157

Kendrik, T. D. The Lisbon Earthquake Reviewed by James R. Newman 1957 July 164

Kenyon, Dean H, and Gary Steinman Biochemical Predestination Reviewed by Philip Morrison, 1970 May p 142

Kilmer, Anne Draffkorn, Richard L Crocker and Robert R Brown Sounds from Silence Recent Discoveries in Ancient Near Eastern Music Reviewed by Philip Morrison 1977 Oct p 28

Kumball, George E, and Philip M. Morse Methods of Operations Research. Reviewed by J. Bronowski, 1951 Oct. p. 75

Kimberlin, R. H., editor Slow Virus Diseases of Animals and Man. Reviewed by Philip Morrison 1977 May p. 140

Kimble, George H. T. Tropical Africa Reviewed by F. Fraser Darling 1961 Sept p. 279

Aimura, Motoo and James F Crow In Introduction to Population Genetics Theory Reviewed by Philip Morrison 1970 Nov p 126

Kingdon Jonathan East African Mammals An Ailas of Evolution in Africa Volume I
Reviewed by Philip Morrison 1972 Feb
p 114, East African Mammals An Atlas of
Evolution in Africa Volume II, Part A
(Insectivores and Bats) Volume II Part B
(Hares and Rodents) Reviewed by Philip
Morrison 1975 July p 128

Kinsey, Alfred C., Wardell B. Pomerov. Clyde L. Martin, Paul H. Gebhard and others Sexual Behavior in the Human Temale Review to by Cost. Doc. 1054, Lin. p. 52

Kirby-Smith, H. T. U.S. Observatories. A. Directory and Travel Guide. Reviewed by Philip Morrison, 1977. Apr. p. 140

Klasner, Albert S, and Irving Geis Agents of Bacterial Disease Reviewed by Philip Morrison, 1974 May p 134

Klass, Philip J Secret Sentries in Space Reviewed by Philip Morrison, 1971 Sept p 229, UFOs Explained Reviewed by Philip Morrison, 1975 May p 117

Klaw, Spencer The New Brahmuns Scientific Life in America Reviewed by Dorothy Zinberg and Paul Doty, 1969 May p 139

Kline, Morris Mathematics in Western Culture Reviewed by James R Newman, 1954 Feb 92

Koestler, Arthur Insight and Outlook Reviewed by James R Newman, 1949 Mar p 56, The Sleepwalkers A History of Man's Changing View of the Universe Reviewed by I Bernhard Cohen 1959 June p 187, The Act of Creation Reviewed by George A Miller, 1964 Nov p 145

Kosofsky, L J, and Farouk El-Baz The Moon as Viewed by Lunai Orbiter Reviewed by Philip Morrison, 1971 Feb p 125

Koyre Alexandre From the Closed World to the Infinite Universe Reviewed by James R Newman, 1957 Oct p 155

Koyre Alexandre, and I Bernhard Cohen, editors Philosophiae Naturalis Principia Mathematica Volume I and Volume II Reviewed by Philip Morrison, 1972 June p 132

Krajewski Władysław Correspondence Principle and Growth of Science Reviewed by Philip Morrison 1977 Nov p 32

Kramer Samuel Noah From the Tablets of Sumer Reviewed by M E L Mallowan, 1957 Feb p 134

Krueger, Robert Gyps) on 18 Wheels A Trucker's Tale Reviewed by Philip Morrison 1976 Jan p 131

Kruuk Hans The Spotted Hyena A Study of Predation and Social Behavior Reviewed by Philip Mortison, 1973 May p 116

Kuhn Thomas S The Copenican Revolution Reviewed by James R Newman, 1957 Oct p. 155

Kuiper Gerard P editor The Sun Reviewed by Jesse L Greenstein, 1954 Sept p 157, The Earth as a Planet Reviewed by Lloyd V Berkner 1955 Sept p 177

Kurten Bjorn Not from the Apes Reviewed by Philip Morrison 1972 Apr p 115, The Age of Mammals Reviewed by Philip Morrison, 1972 Apr p 115

L

La Barre Weston *The Human Animal* Reviewed by Marston Bates, 1954 Nov. p. 106

LaChapelle Edward R, and Austin Post Glacier Ice Reviewed by Philip Morrison, 1973 Apr p 120

Lamb H H Climate Present, Past and Future 1 olume I Fundamentals and Climate Now Reviewed by Philip Morrison, 1975 June p 124

Lamb Ursula translator 1 Navigator's Universe The Libro de Cosmographia of 1538, by Pedro de Medina Reviewed by Philip Morrison, 1973 Mar. p. 124

Lane, Harlan The Wild Boy of Averion Reviewed by Philip Morrison, 1977 Jan p 124

Langenberg, D. N., and B. N. Taylor, editors Precision Measinements and Fundamental Constants Proceedings of the International Conference of the National Bureau of Standards, 1970 Reviewed by Philip Morrison, 1972 Mar. p. 121

Langley, L. L., editor Contraception Reviewed by Philip Morrison, 1974 Feb. p. 119 Lansdowne, J. F. Birds of the West Coast Reviewed by Philip Morrison, 1977 Mar

p 142
Lapage, Geoffrey Parasitic Animals Reviewed
by James R Newman, 1952 Feb p 77
Lee, Richard B, and Irven DeVore, editors
Man the Hunter Reviewed by Philip
Morrison, 1969 Oct p 142

Leiss, William *The Domination of Nature* Reviewed by Philip Morrison, 1973 June p 117

Lenneberg, Eric H Biological Foundations of Language Reviewed by Charles F Hockett, 1967 Nov p 141

Leopold, Luna B Water A Primer Reviewed by Philip Morrison, 1975 Feb p 111

Levison, Michael, R. Gerard Ward and John W. Webb, with the assistance of Trevor I. Fenner and W. Alan Sentance. The Settlement of Polynesia. A Computer Simulation, 1974 Mar. p. 118

Levi-Strauss, Claude Structural Anthropology
Reviewed by Marshall D Sahlins, 1966 June
p. 131

Levitas, G B, editor The World of Psychology Reviewed by Edwin G Boring, 1963 July p. 159

Lewis, Oscar The Children of Sanchez Autobiography of a Mexican Family Reviewed by Robert W White, 1962 Mar p 165

Lifton, Robert Jay Death in Life Survivors of Hiroshima Reviewed by J Bronowski, 1968 June p 131

Lindquist, Everet F, editor Educational Measurement Reviewed by Henry S Dyer, 1951 Sept p 110

Ling, Shao-Wen Aquaculture in Southeast Asia A Historical Overview Reviewed by Philip Morrison, 1978 June p 30

Lintz, Joseph, Jr., and David S. Simonett, editors. Remote Sensing of Environment Reviewed by Philip Morrison, 1977 June p. 138

Littauer, Raphael, and Norman Uphoff, editors

The Air War in Indochina Reviewed by Philip

Morrison, 1972 June p 131

Lloyd, Francis Ernest *The Carnivorous Plants*Reviewed by Philip Morrison, 1977 May
p 143

Lolland, Lyn H A World of Strangers Order and Action in Urban Public Space Reviewed by Philip Morrison, 1974 Aug p 112

Lofty J R and C A Edwards Biology of Earthworms Reviewed by Philip Morrison, 1974 June p 133

Lommel, Andreas Shamanism The Beginnings of Art Reviewed by Philip Morrison, 1968

Aug p 120
Longmore, Donald Space Part Surgery The
Surgical Practice of the Future Edited and
illustrated by M Ross-Macdonald Reviewed
by Philip Morrison 1969 Jan p 133

Longo, V G Neuropharmacology and Behavior, 1973 Oct p 129

Lorenz, Konrad On tegression Reviewed by S N Barnett 1967 Feb p 135 Harburn Authors – Index to Book Resiens

Harburn, G, C A Taylor and T R Welberry Atlas of Optical Transforms Reviewed by Philip Morrison, 1976 Mar p 128

Hardoy, Jorge E. Pre Columbian Cities
Translated by Judith Thorne Reviewed by
Philip Morrison, 1975 Jan p 130

Harlan, Jack R Crops and Man Reviewed by Philip Morrison, 1976 Sept p 212

Harner, Michael J, editor Hallucmogens and Shamanism Reviewed by Philip Morrison, 1973 Oct p 129

Harper, C. T, editor Geochronology
Radiometric Dating of Rocks and Minerals
Reviewed by Philip Morrison, 1974 Feb
p 119

Harris, Marvin Cons, Pigs, Wars and Witches The Riddles of Culture Reviewed by Philip Morrison, 1975 Aug p 126

Harriss, Joseph The Tallest Tower Eiffel and the Belle Epoque Reviewed by Philip Morrison, 1975 Sept p 196

Harrod, Roy F The Life of John Maynard Keynes Reviewed by James R Newman, 1951 Apr p 71, Foundations of Inductive Logic Reviewed by J Bronowski, 1957 May p 137

Harry, Ralph G, revised by J B Wilkinson, in cooperation with P Alexander, E Green, B A Scott and D L Wedderburn Harry's Cosmeticology Formerly the Principles and Practice of Modern Cosmetics Reviewed by Philip Morrison, 1973 Oct p 127

Hart, Ivor B The World of Leonardo da Vinci Man of Science, Engineer, and Dreamer of Flight Reviewed by J Bronowski, 1963 June p. 169

Hartley, Sir Harold The Royal Society Its
Origins and Founders Reviewed by Charles E
Raven, 1961 May 191, Humphry Davy
Reviewed by L Pearce Williams, 1967 Oct
p 145

Hartmann, Ernest L The Functions of Sleep Reviewed by Philip Morrison 1974 May p 133

Haury, Emil W The Hohokam Desert Farmers & Craftsmen (Excavations at Snaketown, 1964 1965) Reviewed by Philip Morrison, 1976 Oct p 140

Hawkins, David The Science and Ethics of Equality Reviewed by Philip Morrison, 1978 Jan p 28

Heber, Rick, and Harvey A Stevens, editors

Mental Retardation A Review of Research
Reviewed by Edwin G Boring, 1965 July
p 113

Heezen, Bruce C. and Charles D. Hollister The Face of the Deep Reviewed by Philip Morrison, 1972 Feb. p. 113

Heisenberg, Werner Physics and Philosophi The Revolution in Modern Science Reviewed by Victor F Weisskopf, 1958 Sept p 215 Physics and Beyond Encounters and Conservations Translated from the German by Arnold J Pomerans Reviewed by Philip Morrison, 1971 May p 127

Helden, Albert Van The Invention of the Telescope Transactions of the American Philosophical Society Reviewed by Philip Morrison, 1978 June p 30

Hempel, Carl G Ispects of Scientific Explanation and Other Essays in the Philosophs of Science Reviewed by Stephen Toulmin, 1966 Feb p 129

Henry, Jules Calture against Man Reviewed by Marshall D Sahlins, 1964 May p 139 Hewlett, Richard G and Oscar E Anderson In The Vew World, 1939/1946 Reviewed by James R Newman, 1962 May p 141

Heyerdahl, Thor Sea Routes to Polynesia
American Indians and Early Asiatics in the
Pacific Reviewed by Philip Morrison, 1969
June p 138

Himmelfarb, Gertrude Darwin and the Darwinan Revolution Reviewed by Ernst Mayr, 1959 Nov p 209

Hindle, Brooke The Pursuit of Science in Revolutionary America Reviewed by James R Newman, 1956 Oct p 141

Hine, Alfred Magnetic Compasses and Magnetometers Reviewed by Philip Morrison, 1969 June p 140

Hofmann, Banesh, with the collaboration of Helen Dukas Albert Einstein Creator and Rebel Reviewed by Philip Morrison, 1973 Mar p 122

Hoffmann, Albert, and Richard Evans Schultes

The Botany and Chemistry of Hallucinogens
Reviewed by Philip Morrison, 1973 Oct
p 129

Hogben, Lancelot Statistical Theory Reviewed by Morris Kline, 1958 May p 143

Holden, Alan Shapes, Space, and Symmetry Photographs by Doug Kendall Reviewed by Philip Morrison, 1972 Mar p 124

Holdgate M W, editor Antarctic Ecology, Vols 1 and 11 Reviewed by Philip Morrison, 1970 Sept p 239

Holland, L., W Steckelmacher and J Yarwood, editors Vacuum Manual Reviewed by Philip Morrison, 1975 Feb p 110

Hollingshead, August B. and Frederick C Redlich Social Class and Mental Illness A Community Study Reviewed by Robert W White, 1958 Nov p 155

Hollister, Charles D., and Bruce C. Heezen The Face of the Deep Reviewed by Philip Morrison, 1972 Feb p. 113

Holmberg, Allan R Nomads of the Long Bow The Striono of Eastern Bolivia Reviewed by Philip Morrison, 1969 Oct p 142

Homans, George C The Human Group Reviewed by Charles A Cofer, 1951 Mar p 64

Hommel, Rudolf P China at Work Reviewed by Philip Morrison 1970 Aug p 123

Hook Sidney, editor Psychoanalysis, Scientific Method and Philosophy Reviewed by Robert W White, 1959 Sept p 267

Hooper, Alfred Makers of Mathematics Reviewed by James R Newman, 1948 Nov

Horkheimer Max and Samuel H Flowerman editors Studies in Prejudice Reviewed by Gordon W Allport, 1950 June p 56

Horne D F Optical Production Technology Reviewed by Philip Morrison, 1973 Aug p 111 Drieding Ruling and Mask making Reviewed by Philip Morrison 1976 Jan p 130

Hovland Carl I Irving L Jams and Harold H Kelley Communication and Persuasion Reviewed by Reuel Denney 1955 Jan p 88

Howse Derek Francis Place and the Early
History of the Greenwich Observatory
Reviewed by Philip Morrison 1975 Oct
p 132

Hudson Jacqueline Wordsworth, and Richard D Hudson Jr editors Infrared Detectors Reviewed by Philip Morrison 1975 Nov p 139

Hudson Richard D. Jr. Infrared Sistem
Engineering Reviewed by Philip Morrison
1969 Oct. p. 144

Hudson, Richard D. Jr., and Jacqueline Wordworth Hudson editors. Is frared Detectors Reviewed by Philip Morrison, 1975 Nov p 139

Hunsaker, Jerome C Aeronautics at the Mid Century Reviewed by Edward Warner 1953 Jan p 74

Hutchinson, G Evelyn A Treause on Limitology Vol I, Part I, Geography and Physics of Lakes, Part 2 Chemistry of Lakes Vol II, Introduction to Lake Biology and the Limitoplankton, Vol III, Limitological Botam Reviewed by Philip Morrison, 1976 Nov p 141

Huxley, Aldous Literature and Science
Reviewed by Max Black, 1964 Mar p 141
Huxley Sir Julian Heredin, East and West
Mendel versus Lysenko Reviewed by James R
Newman, 1949 Nov p 54, Essays of a
Humanist Reviewed by A E Mirsky 1964
Oct p 135

Hyams, Edward Animals in the Service of Man and Plants in the Service of Man 10 000 Years of Domestication Reviewed by Philip Morrison, 1972 Nov p 129

I

Isaac, Glynn LI, and Elizabeth R McCown editors Human Origins Louis Leaker and the East African Evidence Reviewed by Philip Morrison, 1976 Sept p 216

1

Jahoda, Marie, and Nathan W Acketman Ann Semitism and Emotional Disorder A Psycho anal) ite Interpretation Reviewed by Gotdon W Allport, 1950 June p 56

Jameson, William The Wandering Albatross Reviewed by James R Newman 1960 Feb 169

Jammer, Max The Conceptual Development of Quantum Mechanics Reviewed by Rudolf E. Peierls 1967 Jan p 137

Janowitz, Morris and Bruno Bettelhum Dynamics of Prejudice A Psychological and Sociological Study of Veterans Reviewed by Gordon W Allport, 1950 June p 56

Jauch J M Are Quanta Real? A Galikan Dialogue Reviewed by Philip Morrison 1973 Sept p 191

Johnson, Virginia E and William H Masters Human Sexual Response Reviewed by Frink A Beach, 1966 Aug p 107

A Beach, 1900 Aug p 107

Jones Ernest The Life and Work of Signand
Frend, Vol 1 1856 1890 Reviewed by James
1953 New p 101

R Newman 1953 Nov p 101

Jones Rebecca and W J Lekert Faster Faster
Reviewed by James R Newman 1957 Jan

Journal of Geophysical Research (September 30 1977) Scientific Results of the Vikins, Paject Reviewed by Philip Morrison 1978 May

Joyce C R B and S H Curry editors Ite Botam and Chemistry of Cannabis Reviewed by Philip Morrison 1971 Sept p 235

Juleyz, Bela Foundations of Cyclipcan Perception 1972 Aug p 115

Jung C G Memerier Dreams Reflect as Recorded and edited by Aniels Life Franklated from the Ostman by Richard and Clara Winston Reserved by Frich Lemm 1963 Sept. p. 283 forrison, James D., and Harry S. Mosher: Asymmetric Organic Reactions. Reviewed by Philip Morrison, 1971 July p. 119.

Morrison, Samuel Eliot: The European
Discovery of America: The Northern Voyages
A.D. 500-1600. Reviewed by Philip Morrison,
1972 Mar. p. 122.

Morse, Philip M., and George E. Kimball: Methods of Operations Research. Reviewed by J. Bronowski, 1951 Oct. p. 75.

Mortimer, Ernest: Blaise Pascal: The Life and Work of a Realist. Reviewed by James R. Newman, 1959 Dec. p. 191.

Mosher, Harry S., and James D. Morrison: Asymmetric Organic Reactions. Reviewed by Philip Morrison, 1971 July p. 119.

Mossner, Ernest Campbell: The Life of David Hume. Reviewed by Stuart Hampshire, 1955 Aug. p. 84.

Mostert, Noël: Supership. Reviewed by Philip Morrison, 1975 Jan. p. 127.

Moynihan, Martin: The New World Primates.
Adaptive Radiation and the Evolution of Social
Behavior, Languages, and Intelligence.
Reviewed by Philip Morrison, 1977 July
p. 152.

Mumford, Lewis: The City in History. Reviewed by Henry S. Churchill, 1961 July p. 175.

Munro-Smith, R.: Merchant Ship Types. Reviewed by Philip Morrison, 1977 Jan. p. 126.

Munroe, Ruth L.: Schools of Psychoanalytic Thought. Reviewed by Robert P. Knight, 1956 Apr. p. 143.

Murray, Bruce C., and Merton E. Davies: The View from Space: Photographic Exploration of the Planets. Reviewed by Philip Morrison. 1972 Apr. p. 113.

Myrdal, Alva: The Game of Disarmament. How the United States and Russia Run the Arms Race Reviewed by Philip Morrison, 1977

May p 139.

Myrdal, Gunnar: Challenge to Affluence. Reviewed by Leon H. Keyserling, 1964 Jan p. 141; Asian Drama: An Inquiry into the Poverty of Nations Reviewed by P. C Mahalanobis, 1969 July p. 128.

N

Nachitgall, Werner, Insects in Flight: A Glimpse Behind the Scenes in Biophysical Research. Translated by Harold Oldroyd, Roger H Abbott and Marguerite Biederman-Thorson. Reviewed by Philip Morrison, 1974 Nov. p 142

Nader, Ralph Unsafe at Any Speed: The Designed-in Dangers of the American Automobile Reviewed by David Hawkins, 1966 March 127

1966 May p 137

Nagel, Ernest The Structure of Science Reviewed by A. J. Aver, 1961 June p. 197 Nair, Kusum The Lonely Furrow Farming in The United States, Japan, and India. Reviewed by Philip Morrison, 1970 July p. 131.

National Academy of Sciences Recommended Dictary Allowances Reviewed by Philip Morrison, 1975 June p. 125

Natta, G., and M. Farina. Stereochemistry Franslated by A. Dempster. Reviewed by Philip Morrison, 1974 Mar. p. 122.

 Neal, R. B., general editor: The Stanford Two-Mile Accelerator Reviewed by Philip Morrison, 1969 June p. 139.
 Needham, Joseph. Science and Civilisation in China. Reviewed by James R. Newman, 1954 Oct. p. 86;

Needham, Joseph, with the collaboration of Wang Ling and Lu Gwei-Djen: Science and Civilisation in China. Volume 4: Physics and Physical Technology; Part III: Civil Engineering and Nautics. Reviewed by N. Siyin, 1972 Jan. p. 113.

Neugebauer, O.: The Exact Sciences in Antiquity Reviewed by I. Bernard Cohen, 1952 May p. 80.

Neumann, John von: *The Computer and the Brain*. Reviewed by S. Ulam, 1958 June p. 127.

Neville, A. C.: Animal Asymmetry. Reviewed by Philip Mortison, 1977 Apr. p. 142.

Newhall, Beaumont: Airborne Camera: The World from the Air and Outer Space. Reviewed by Philip Morrison, 1972 Apr. p. 113.

Newman, James R., editor: *The World of Mathematics*. Reviewed by Max Black, 1956 Nov. p. 147.

Nicolson, Marjone Hope: Voj ages to the Moon. Reviewed by James R. Newman, 1948 Dec. p. 54.

Nida, Eugene A., editor: The Book of a Thousand Tongues Reviewed by Philip Morrison, 1977 Sept. p. 46.

Nieto, Michael Martin: The Tittus-Bode Law of Planetary Distances: Its History and Theory. Reviewed by Philip Morrison, 1973 Sept. p. 194

Niven, Ivan: Numbers: Rational and Irrational. Reviewed by Morris Kline, 1962 Jan. p. 157.

North, J. D.: *The Measure of the Universe*. Reviewed by Dennis Sciama, 1967 Sept. p. 293.

Nossal, G. J. V.: Antibodies and Immuniy. Reviewed by Philip Morrison, 1970 June p 149.

Nuttall, Zelia, editor: The Codex Nuttall, A Picture Manuscript from Ancient Mexico. Introduction by Arthur G. Miller, Reviewed by Philip Morrison, 1976 Mar. p. 126.

Nye, Mary Jo: Molecular Reality A Perspective on the Scientific Work of Jean Perrin. Reviewed by Philip Morrison, 1972 July p. 118

0

Oehser, Paul H · Sons of Science The Story of the Smithsonian Institution and Its Leaders Reviewed by I. Bernard Cohen, 1949 July p 56.

Office of Strategic Services Assessment Staff: Assessment of Men Reviewed by Henry S. Dyer, 1951 Sept. p. 110

Olby, Robert The Path of the Double Helix Reviewed by Philip Morrison, 1975 Nov p. 136

Oldroyd, Harold The Natural History of Flies Reviewed by Howard E. Evans, 1966 Jan. p. 123

Olsson, Ingrid U., editor: Nobel Symposium 12-Radiocarbon Variations and Absolute Chronologi Reviewed by Philip Morrison, 1971 July p. 117

Opie, Iona and Peter Children's Games in Street and Playground Chasing, Catching, Seeking, Hunting, Racing, Duelling, Exerting, Daring, Guessing, Acting, Pretending Reviewed by Philip Morrison, 1970 Jan. p. 141.

Ord-Hume, Arthur W. J. G.: Perpetual Motion: The History of an Obsession, 1977 Nov. p. 30. Ore, Oystein: Cardano, the Gambling Schelar. Reviewed by James R. Newman, 1953 June p. 105.

Osmond, Humphry, and Miriam Siegler: Models of Madness, Models of Medicine. Reviewed by Philip Morrison, 1976 Mar. p. 127.

Ottar, Arvid, and Keith Mallory: *The Architecture of War.* Reviewed by Philip Morrison, 1974 Mar. p. 117.

Owen, J. I. H., editor: Brassey's Infantry Weapons of the World:, 1975. Reviewed by Philip Morrison, 1975 Aug. p. 124.

Owens, Peter H., and Andrew Streitwieser, Jr.: Orbital and Electron Density Diagrams: An Application of Computer Graphics. Reviewed by Philip Morrison, 1973 Sept. p. 191.

P

Packe, Michael St. John: The Life of John Stuart Mill. Reviewed by James R. Newman, 1955 Feb. p. 108.

Page, Chester H., and Paul Vigoureux, editors: The International Bureau of Weights and Measures 1875-1975. Reviewed by Philip Morrison, 1975 Oct. p. 132.

Parker, Donn B.: Crime by Computer. Reviewed by Philip Morrison, 1977 Oct. p. 26.

Parks, Peter: The World You Never See: Underwater Life. Reviewed by Philip Morrison, 1977 Mar. p. 142.

Passmore, R., D. L. Bocobo, B. M. Nicol and M. Narayana Rao in collaboration with G. H. Beaton and E. M. DeMaeyer: *Handbook on Human Nutritional Requirements*. Reviewed by Philip Morrison, 1975 June p. 125.

Paul, John R.: A History of Poliomyelitis. Reviewed by Philip Morrison, 1971 Apr. p. 125.

Pauling, Linus: No More War! Reviewed by James R. Newman, 1959 Feb. p. 155.

Penfield, Wilder, and Lamar Roberts: Speech and Brain-Mechanisms Reviewed by Lord Adrian, 1960 May p. 207.

Petchenik, Barbara Bartz, and Arthur H.
Robinson: The Nature of Maps: Essays
Toward Understanding Maps and Mapping
Reviewed by Philip Morrison, 1977 Mar.
p. 144.

Pettigrew, Thomas F.: A Profile of the Negro American. Reviewed by Paul Bohannan, 1965 June p. 137.

Pfeiffer, John E.: The Emergence of Man Reviewed by Philip Morrison, 1970 Nov. p. 130.

Pickering, W. F.: Modern Analytical Chemistry. Reviewed by Philip Morrison, 1972 May p. 134.

Pirenne, M. H.: Optics, Painting & Photography. Reviewed by Philip Morrison, 1972 Aug. p. 118.

Pine, N. W.: Food Resources, Conventional and Novel. Reviewed by Philip Morrison, 1970 July p. 131.

Plate, Thomas Gordon: Understanding Doomsday: A Guide to the Arms Race for Hawks, Doves and People. Reviewed by Philip Morrison, 1971 June p. 132.

Plowden, David: Bridges: The Spans of North America Reviewed by Philip Morrison, 1974 Nov. p. 143.

Polya, George: Mathematics and Plausible Reasoning Reviewed by Morris Kline, 1955 Mar. p. 107.

- Lovell, Sir Bernard Patrick Maynard Stuart Blackett, Baron Blackett of Chelsea A Biographical Memoir Reviewed by Philip Morrison, 1976 Oct p 138
- Lowe, Adolph On Economic Knowledge Toward a Science of Political Economics Reviewed by Kenneth E Boulding, 1965 May 139
- Lowe-McConnell, R. H., editor Speciation in Tropical Environments Reviewed by Philip Morrison, 1970 Nov. p. 126
- Lowenthal, Leo, and Norbert Guterman Prophets of Decett A Study of the Techniques of the American Agitator Reviewed by Gordon W Allport, 1950 June p 56
- Lucas-Dubreton, J Daily Life in Florence in the Time of the Medici Reviewed by James R Newman, 1961 Oct p 187
- Luria, S. E. Life The Unfinished Experiment Reviewed by Philip Morrison, 1973 Aug p. 112
- Lythgoe, J N, and J D Woods, editors
 Underwater Science An Introduction to
 Experiments by Divers Reviewed by Philip
 Mortison, 1973 Jan p 124
- Lyttleton, R. A. The Comets and Their Origins Reviewed by James R. Newman, 1953 July p. 88

M

- Majno, Guido The Healing Hand Man and Would in the Ancient World Reviewed by Philip Morrison, 1976 June p. 126
- Malcolm, Norman Ludwig Writgenstein A Memoir Reviewed by James R Newman, 1959 Aug p 149
- Malinowski, Bronislaw Magic, Science and Religion Reviewed by Abram Kardiner, 1948 June p 58
- Mallory, Ketth, and Arvid Ottar *The*Architecture of War Reviewed by Philip

 Morrison, 1974 Mar p 117
- Mandelbrot Benoît Les Objets Fractals Forme, Hasard et Dimension Reviewed by Philip Morrison, 1975 Nov p 143
- Mantell, Charles L. Batteries and Energy Systems Reviewed by Philip Morrison, 1971 Mar p 120
- Manuel, Frank E The Religion of Isaac Newton Reviewed by Philip Morrison, 1975 Aug p 123
- Margaria Rodolfo Biomechanics and Energetics of Muscular Evercise Reviewed by Philip Mortison, 1977 Mar p 147
- Margulis, Lyna Origin of Eukaryotic Cells Reviewed by Philip Morrison, 1971 May p 128
- Marrou H I A History of Education in Antiquity Reviewed by James R Newman 1907 Nov p 165
- Marschak Jacob and Sam H Schurr Economic Aspects of Itomic Power An Exploratory Study Reviewed by James R Newman, 1950 Oct p 57
- Marshack Alexander The Roots of Civilization The Cognitive Beginnings of Man's First Art. Symbol and Votation Reviewed by Philip Morrison 1972 July p 117
- Martin Laurence Arms and Strategy The Borld Power Structure Today Reviewed by Philip Morrison 1975 Mar p 125
- Philip Morrison 1975 Mar p 125 Mason Brian and William G Melson The Lutar Rocks Reviewed by Philip Morrison, 1971 Feb p 125

- Massey, A. G., and J. Kane. Boron Reviewed by Philip Morrison, 1974 Jan. p. 125
- Massing, Paul W Rehearsal for Destruction A Study of Political Anti Semitism in Imperial Germany Reviewed by Gordon W Allport, 1950 June p 56
- Masters, Dexter The Accident Reviewed by James R Newman, 1955 July p 96
- Masters, William H, and Virginia E Johnson Human Sexual Response Reviewed by Frank A Beach, 1966 Aug p 107
- Mattson, Priscilla Regeneration Reviewed by Philip Morrison, 1977 Sept p 57
- Matz, Samuel A Snack Food Technology Reviewed by Philip Morrison, 1976 Aug p. 110
- Mayhew, Henry Selections from "London Labour and the London Poor" Edited by John L Bradley Reviewed by Asa Briggs, 1966 July p 123
- Mayr, Otto The Origins of Feedback Control Reviewed by Philip Morrison, 1971 July p 120
- Mazlish, Bruce, and J Bronowski The Western Intellectual Tradition From Leonardo to Hegel Reviewed by C P Snow, 1960 Sept p 249
- McArthur, Robert H Geographical Ecology Patterns in the Distribution of Species Reviewed by Philip Morrison, 1973 July p 119
- McCarthy, J, and C E Shannon, editors Automata Studies Reviewed by John R Pierce, 1956 Aug p 117
- McCown, Elizabeth R, and Glynn Ll Isaac, editors Human Origins Louis Leakey and the East African Evidence Reviewed by Philip Morrison, 1976 Sept p 216
- McCrone, Walter C, and John Gustav Delly The Particle Atlas, Edition Two An Encyclopedia of Techniques for Small Particle Identification Reviewed by Philip Morrison, 1974 July p 134
- McCullagh James C, editor Pedal Power In Work, Leisure, and Transportation Reviewed by Philip Morrison, 1978 Apr p 34
- McFarland, Marvin W, editor The Papers of Wilbur and Orville Wright Reviewed by James R Newman, 1954 May p 88
- McGee J D. D McMullan, E Kahan and B L Morgan, editors Photo Electronic Image Devices Proceedings of the Fourth Symposium Reviewed by Philip Mortison, 1970 May p 139
- McLaren, Anne, FRS Mammalion Chimaeras Reviewed by Philip Morrison, 1977 Sept n 57
- McLeavy, Roy editor Jane's Surface
 Shimmers Hovercraft and Hydrofoils, 1971 72
 Reviewed by Philip Morrison 1972 Aug
 p 120
- McMurtrie Francis editor Jane's Fighting Ships 1949 50 Reviewed by James R Newman, 1950 Apr p 62
- McPhee, John The Curve of Binding Energy Reviewed by Philip Morrison, 1974 Sept p 201
- McQuitty, William Island of Isis Philae, Temple of the Nile Reviewed by Philip Morrison, 1977 July p 151
- Medina, Pedro de A Navigator's Universe The Libro de Cosmographia of 1558. Translated and with an introduction by Ursula Lamb Reviewed by Philip Morrison, 1973 Mar p. 174
- Medvedev, Zhores A The Rise and Fall of T D Lysenko Translated by I Michael Verner

- Reviewed by Philip Morrison, 1969 Oct p 144
- Melman, Seymour, editor Inspection for Disarmament Reviewed by James R. Newman, 1959 Feb p 155
- Melson, William G, and Brian Mason The Lunar Rocks Reviewed by Philip Morrison 1971 Feb p 125
- Melzack, Ronald The Puzzle of Pain Reviewed by Philip Morrison, 1974 Aug p 115
- Menard, Henry W Anatomy of an Expedition. Reviewed by Philip Morrison, 1970 June p 150, Science Growth and Change Reviewed by Philip Morrison, 1972 May p 128
- Mendelssohn, Kurt The Riddle of the Pyramids. Reviewed by Philip Morrison, 1974 Oct p 136
- Mendlovitz, Saul H, and Richard A Falk, editors The Strategy of World Order Vol 1 Toward a Theory of War Presention, Vol 11 International Law, Vol III, The United Nations, Vol IV, Disarmament and Economic Development Reviewed by Anatol Rapoport 1966 Oct p 129
- Mendoza, E, editor A Random Walk in Science, an anthology compiled by R L Weber Reviewed by Philip Morrison 1974 Aug p 112
- Menninger, Karl, with Martin Mayman and Paul Pruyser The Vital Balance The Life Process in Mental Health and Illness Reviewed by E G Boring 1964 Apr p 145
- Menzies, Robert J, Robert Y George and Gilbert T Rowe Abyssal Environment and Ecology of the World Oceans Reviewed by Philip Morrison, 1976 Oct p 142
- Merton, Robert K Science, Technology and Society in Seventeenth Century England Reviewed by I Bernard Cohen, 1973 Feb 117. The Sociology of Science Theorenical and Empirical Investigations Edited and with an introduction by Norman W Storer Reviewed by Philip Morrison, 1974 June p 129
- Michael, Henry N., and Elizabeth K. Ralph editors. Dating Techniques for the Archaeologist. Reviewed by Philip Motrison 1972 Sept. p. 198
- Michelmore, Peter The Swift Years The Robert Oppenheimer Story Reviewed by Philip Morrison, 1970 June p 146
- Miller Howard S Dollars for Research Science and Its Patrons in Nineteenth Century America Reviewed by Philip Morrison, 1971 Jan p 117
- Miller, Morton W, and George G. Berg.
 editors. Chemical Fallout. Current Research on
 Persistent Pesticides. Reviewed by Philip
 Mortison. 1970 Sept. p. 239
- Millon, Rene editor Urbanization of Teotihuacan, Mexico Reviewed by Philip Morrison, 1975 Jan p 130
- Mills, C Wright The Causes of World War Three Reviewed by James R Newman 1959 Feb p 115
- Milne, E. A. Modern Cosmology and the Christian Idea of God Reviewed by J. Bronowski, 1952 Nov. p. 87
- Moensens Andre A Fingerprint Techniques Reviewed by Philip Morrison 1972 Apr p 116
- Moore, A. D. edutor Electrostatics and Its applications. Reviewed by Philip Morris, 2 1973 Nov. p. 133
- Moore, Ruth Mick Bier The Man His Science and the World They Changed Reviewed by O. R. Frich 1967 June p. 145

- Scheidegger, Adrian E Physical Aspects of Natural Catastrophes Reviewed by Philip Morrison, 1976 Jan p 134
- Schilpp, Paul Arthur, editor Albert Einstein Philosopher Scientist Reviewed by Sir Edmund Whittaker, 1950 May p 56
- Schlebecker, John T Whereby We Thrive A History of American Farming, 1607-1972 Reviewed by Philip Morrison, 1977 June p 140
- Schmidt-Nielsen, Knut How Animals Work Reviewed by Philip Morrison, 1972 Oct p 122
- Schnell, Donald E Carnivorous Plants of the United States and Canada Reviewed by Philip Morrison, 1977 May p 143
- Schonland, B F J The Flight of Thunderbolts Reviewed by James R. Newman, 1951 June p 71
- Schrodinger, Erwin Nature and the Greeks
 Reviewed by James R. Newman, 1954 July
 84, Mind and Matter Reviewed by James R
 Newman, 1959 Mar p 169
- Schultes, Richard Evans, and Albert Hofmann

 The Botany and Chemistry of Hallucinogens

 Reviewed by Philip Morrison, 1973 Oct
 p 129
- Schurr, Sam H, and Jacob Marschak Economic Aspects of Atomic Power An Exploratory Study Reviewed by James R Newman, 1950 Oct p 57
- Schwartz, Morris S, and Alfred H Stanton *The Mental Hospital* Reviewed by Donald A Bloch, 1955 Apr p 100
- Schweitzer, Albert Peace or Atomic War?
 Reviewed by James R Newman, 1959 Feb
 155
- Scorer, Richard Clouds of the World A Complete Color Encyclopedia Reviewed by Philip Morrison, 1973 May p 116
- Scott, J F A History of Mathematics
 Reviewed by Ernest Nagel, 1958 Oct p 141
- Segre, Emilio Enrico Fermi, Physicist
 Reviewed by Philip Morrison, 1970 June
 p 146
- Seibel, Clifford W Helium Child of the Sun Reviewed by Philip Morrison, 1968 Sept p 249
- Shannon, C E, and J McCarthy, editors Automata Studies Reviewed by John R Pierce, 1956 Aug p 117
- Shapiro, S. L., editor Ultrashort Light Pulses Picosecond Techniques and Applications Reviewed by Philip Morrison, 1978 June p. 35
- Shepherd Walter Flint Its Origin, Properties and Uses Reviewed by Philip Morrison, 1973 July p 119
- Sherrington Sir Charles Goethe on Nature and Science Reviewed by James R Newman, 1949 Sept p 56
- Shils Edward A The Torment of Secrecy Reviewed by Harry L Shapiro, 1956 July p 120
- Shine Ian and Reynold Gold Serendipity in St Helina A Genetical and Medical Study of an Isolated Community Reviewed by Philip Morrison, 1970 Nov p 126
- Shipman, Harry L. Black Holes Quasars, and the Universe. Reviewed by Philip Morrison, 1976 Aug. p. 112
 Shor, Ronald E., and Erika Fromm, editors
- Shor, Ronald L., and Erika Fromm, editors Hypnosis Research Developments and Perspectives Reviewed by Philip Morrison, 1973 Aug. p. 112
- Short Nicholas M., Paul D. Lowman, Jr., Stanley C. Freden and William A. Finch, Jr.

- Mission to Earth Landsat Views the World Reviewed by Philip Morrison, 1977 Aug p 132
- Shriver, D F The Manipulation of Air-Sensitive Compounds Reviewed by Philip Morrison, 1969 Nov p 159
- Shumaker, Wayne The Occult Sciences in the Renaissance A Study in Intellectual Patterns Reviewed by Philip Morrison, 1973 Feb p 121
- Siegler, Miriam, and Humphry Osmond Models of Madness, Models of Medicine Reviewed by Philip Morrison, 1976 Mar p 127
- Sigerist, Henry E A History of Medicine, Vol I Primitive and Archaic Medicine Reviewed by I Bernard Cohen, 1951 Feb p 66
- Sikes, Sylvia K The Natural History of the African Elephant Reviewed by Philip Morrison, 1971 Oct p 115
- Simon, Hilda The Splendor of Iridescence Structural Colors in the Animal World Reviewed by Philip Morrison, 1971 Nov p 129
- Simonett, David S, and Joseph Lintz, Jr, editors Remote Sensing of Environment Reviewed by Philip Morrison, 1977 June p 138
- Simpson, George Gaylord Life of the Past Reviewed by Julian S Huxley, 1953 Aug p 88
- Simpson, George Gaylord, Colin S Pittendrigh and Lewis H Tiffany Life An Introduction to Biology Reviewed by Jane Oppenheimer, 1957 Aug. p. 139
- Simpson, Lance L, editor Neuropoisons Their Pathophysiological Actions Volume 1 Poisons of Animal Origin Reviewed by Philip Morrison, 1973 Jan p 125
- Singer, Charles, E. J. Holmyard and A. R. Hall, editors A History of Technology Reviewed by James R. Newman, 1955 May p. 108
- Skeist, Irving, editor Handbook of Adhesives Reviewed by Philip Morrison, 1977 Nov p 37
- Stoane, N J A A Handbook of Integer Sequences Reviewed by Philip Morrison, 1974 Apr p 125
- Smith, Alice Kimball A Peril and a Hope The Scientists' Movement in America, 1945-47 Reviewed by Philip Morrison, 1965 Sept p 257
- Smith, Jon M Scientific Analysis on the Pocket Calculator Reviewed by Philip Morrison, 1975 May p 119
- Snow, Str Charles P The New Men Reviewed by James R Newman, 1955 July p 96 The Two Cultures and the Scientific Revolution Reviewed by Asa Briggs, 1959 Oct p 201 Science and Government Reviewed by P M S Blackett, 1961 Apr p 191
- Spoehr, Alexander Saipan Reviewed by James R Newman, 1954 June p 90
- Srejovic, Dragoslav Europe's First Monumental Sculpture New Discoveries at Lepenski Vir Translated from the Serbo-Croat by Lovett F Edwards Reviewed by Philip Morrison, 1972 Oct p 122
- Srole, Leo, Thomas S Langner, Stanley T
 Michael, Marvin K Opler and Thomas A C
 Rennie Mental Health in the Metropolis The
 Midtown Manhattan Study, Vol 1 Reviewed
 by Ernest M Gruenberg, 1962 Oct p 159
- Stanton, Alfred H, and Morris S Schwartz

 The Mental Hospital Reviewed by Donald A

 Bloch, 1955 Apr. p. 100

- Stein, Sir Aurel On Ancient Central Asian Tracks Reviewed by Philip Morrison, 1975 Mar p 127
- Stein, Zena, Mervyn Susser, Gerhard Saenger and Francis Marolla Famine and Human Development The Dutch Hunger Winter of 1944/45 Reviewed by Philip Morrison, 1977 July p 148
- Steiner, Gary A, and Bernard Berelson Human Behavior An Inventory of Scientific Findings Reviewed by Jules Henry, 1964 July p 129
- Steinhaus, Hugo Mathematical Snapshots Reviewed by James R Newman, 1950 Nov p 56
- Steinman, Gary, and Dean H Kenyon.

 Biochemical Predestination Reviewed by Philip Morrison, 1970 May p 142
- Stephenson, F Richard, and David H Clark

 The Historical Supernovae Reviewed by
 Philip Morrison, 1978 Jan p 28
- Stern, Arthur C, editor. Air Pollution, Vols I, II and III Reviewed by Philip Morrison, 1970 Sept p 239
- Stevens, Harvey A, and Rick Heber, editors

 Mental Retardation A Review of Research
 Reviewed by Edwin G Boring, 1965 July
 p 113
- Stevens, Peter S Patterns in Nature Reviewed by Philip Mornson, 1974 July p 133 Stewart Hilary Indian Fishing, Farly Methods
- Stewart, Hilary Indian Fishing Early Methods on the Northwest Coast Reviewed by Philip Morrison, 1978 June p 30
- Stickland, A. C., general editor. The Proton
 Flare Project (The July p., 1966 Event)
 Vol. III of the Annals of the IQSY,
 International Years of the Quiet Sun Reviewed
 by Philip Morrison, 1970 Jan. p. 143
- Stimson, Dorothy Scientists and Amateurs
 The History of the Royal Society Reviewed by
 I Bernard Cohen, 1949 July p 56
- Stockholm International Peace Research Institute World Armaments and Disarmament SIPRI Yearbook, 1975 Reviewed by Philip Morrison, 1976 July p 132
- Storko, Michael Soviet Rocketry Past, Present, and Future Reviewed by Philip Morrison, 1971 Feb p 125
- Stone, Alan, Curtis W Sabrosky, Willis W Wirth, Richard H Foote and Jack R. Coulson, editors A Catalog of the Diptera of America North of Mexico Reviewed by Howard E. Evans, 1966 Jan p 123
- Stonehouse, Bernard Animals of the Arctic The Ecology of the Far North Reviewed by Philip Morrison, 1972 Mar p 123
- Stotz, Elmer H, and Marcel Florkin, editors Comprehensive Biochemistry Reviewed by Alexander Rich, 1969 Feb p 126
- Stouffer, Samuel A Communism, Conformity and Civil Liberties Reviewed by Morton Grodzins, 1955 June p 112
- Strauss, Richard H, editor Diving Medicine Reviewed by Philip Morrison, 1978 Mar p 30
- Streitwieser, Andrew, Jr., and Peter H. Owens Orbital and Electron Density Diagrams. An Application of Computer Graphics Reviewed by Philip Motrison, 1973 Sept. p. 191
- Study of Man's Impact on Climate, Report of Inadvertent Climate Modification Reviewed by Philip Morrison, 1972 June p 134
- Sturt, George The Wheelwright's Shop Reviewed by Philip Morrison, 1976 Feb p 135

- Popper, Karl R The Logic of Scientific Discovery Reviewed by Stephen E Toulmin, 1959 May p 189
- Post, Austin, and Edward R LaChapelle Glacier Ice Reviewed by Philip Morrison, 1973 Apr p 120
- Post, John D The Last Great Subsistence Crisis in the Western World, Reviewed by Philip Morrison, 1977 July p 148

Posthumus, Cyril Land Speed Record Reviewed by Philip Morrison, 1972 Aug p 120

Price, A Grenfell, editor The Explorations of Captain James Cook in the Pacific as Told by Selections of His Own Journals 1768 1779 Illustrated by Geoffrey C Ingleton Reviewed by Philip Morrison, 1974 Nov p 137

Price, Derek de Solla Gears from the Greeks
The Antiky thera Mechanism-A Calendar
Computer from ca 80 B C Reviewed by Philip
Morrison, 1975 May p 118

Price, Don K The Scientific Estate Reviewed by Kenneth E Boulding, 1966 Apr p 131

Puck, Theodore T The Mammalian Cell as a Microorganism Genetic and Biochemical Studies in Vitro Reviewed by Philip Morrison, 1973 Feb p 120

Pugsley, Sir Alfred, editor The Works of Isambard Kingdom Brunel An Engineering Appreciation Reviewed by Philip Morrison, 1977 Apr p 144

Puharich, Andrija Uri A Journal of the Mystery of Uri Geller Reviewed by Philip Morrison, 1976 Feb p 134

Purseglove, J W Tropical Crops Dicoryledons Reviewed by Philip Morrison, 1969 Jan p 133, Tropical Crops Monocotyledons I and 2 Reviewed by Philip Morrison, 1973 June p 118

Pye, David *The Nature and Art of*Workmanship Reviewed by Philip Mortison,
1974 May p 137

Pye, David, and Gillian Sales *Ultrasonic* Communication by Animals Reviewed by Philip Morrison, 1975 Oct p 134

R

- Ralph, Elizabeth K., and Henry N. Michael editors. Dating Techniques for the Archaeologist. Reviewed by Philip Morrison, 1972 Sept. p. 198
- Randall, John Herman, Jr The Career of Philosophi From the Middle Ages to the Enlightenment Reviewed by John Passmore 1963 May p 177

Randi The Amazing *The Magic of Uri Geller* Reviewed by Philip Morrison, 1976 Feb p 134

Ransohoff Rita (captions) and Peter Gay (introduction) Berggasse 19 Signuind Freud's Home and Offices, Vicina 1938 the Photographs of Edmund Engelman Reviewed by Philip Morrison 1977 Mar p 142

Rapoport Anatol Strategy and Conscience Reviewed by Marcus G Raskin, 1964 Aug p. 109

Ratoosh Philburn and C West Churchman, editors Measurement Definitions and Theories Reviewed by Herbert Dingle, 1960 June p. 189

Rawson K J and E C Tupper Basic Ship Theory Reviewed by Philip Morrison, 1969 Sept. p. 270 Redlich, Fredrick C, and August B
Hollingshead Social Class and Mental Illness
A Community Study Reviewed by Robert W
White, 1958 Nov p 155

Reed, Graham The Psychology of Anomalous Experience A Cognitive Approach Reviewed by Philip Morrison, 1974 Jan p 126

Reichenbach, Hans The Rise of Scientific Philosophy Reviewed by Ernest Nagel, 1951 May p 70

Reid Constance Hilbert Reviewed by Philip Morrison, 1970 July p 132

Renfrew, Jane M Palaeoethnobotany The Prehistoric Food Plants of the Near East and Europe Reviewed by Philip Morrison, 1974 Feb p 119

Rice, Francis Owen, and Edward Teller *The Structure of Matter* Reviewed by E U Condon, 1949 May p 56

Richardson, Lewis F Aims and Insecurity, Statistics of Deadly Quarrels Reviewed by O G Sutton, 1961 Jan p 193

Rieff, Philip Freud The Mind of the Moralist Reviewed by Robert W White, 1959 Sept p 267

Roach, F. E., and Janet L. Gordon. The Light of the Night Ski. Reviewed by Philip Morrison, 1974 Oct. p. 135

Roberts, Lamar, and Wilder Penfield Speech and Biain Mechanisms Reviewed by Lord Adrian, 1960 May p 207

Roberts, Willard Lincoln, George Robert Rapp, Jr., and Julius Weber Encyclopedia of Minerals Reviewed by Philip Morrison, 1975 Feb p 111

Robinson, Arthus H., and Barbara Bartz Petchenik. The Nature of Maps. Essays Toward Understanding Maps and Mapping Reviewed by Philip Morrison, 1977 Mar p. 144

Roe, Daphne A A Plague of Corn The Social History of Pellagra Reviewed by Philip Morrison, 1975 Mar p 126

Roebuck, Carl, editor The Muses at Work Arts Crafts, and Professions in Ancient Greece and Rome Reviewed by Philip Morrison, 1970 Aug p 123

Rolt, L.T.C. and J.S. Allen The Steam Engine of Thomas Newcomen, Reviewed by Philip Morrison 1978 May p. 37

Romer Alfred, editor Radiochemistry and the Discovery of Isotopes Reviewed by Philip Morrison, 1970 Nov p 128 The Discovery of Radioactivity and Transmutation Reviewed by Philip Morrison, 1970 Nov p 128

Rose, Albert Vision Human and Electronic Reviewed by Philip Morrison 1975 June p 123

Rosebury, Theodor Peace or Pestilence Reviewed by James R. Newman 1949 June p. 56

Rosenberg, G D and S K Runcorn editors Growth Rhythms and the History of the Earth's Rotation Reviewed by Philip Morrison 1976 July p 137

Rosier, Bernard, and Rene Dumont *The Hungri Future* Translated from the French by Rosamund Linell and R. B. Sutcliffe Reviewed by Philip Morrison 1970 June p. 147

Ross Ralph, and Ernest van den Haaz. The Fabric of Society. An Introduction to the Social Sciences. Reviewed by M. Brewster Smith 1958 Feb. p. 123

Ross-Macdonald, M., editor and illustrator Spare Part Surgers. The Surgical Practice of the Future, by Donald Longmore. Reviewed by Philip Morrison, 1969 Jan p 133 Rothschild, Emma Paradise Lost The Decline of the Auto Industrial Age Reviewed by Philip Morrison, 1974 Feb p 118

Rozenthal, S., editor Niels Bohr His Life as d Work as Seen by His Friends and Colleagus Reviewed by O R Frisch, 1967 June p 145

Runcorn, S. K., and G. D. Rosenberg editors Growth Rhythms and the History of the Earth's Rotation Reviewed by Philip Morrison, 1976 July p. 137

Russell, Bertrand Human Knowledge Reviewed by Y H Knkorian, 1949 Feb p 56, Portnuts from Memory and Other Essais Reviewed by James R Newman, 1957 Apr p 153, Has Man a Future? Reviewed by James R Newman, 1962 Feb p 177

ς

Salam, Abdus, and E P Wigner, editors

Aspects of Quantum Theory Reviewed by
Philip Morrison, 1973 July p 117

Sales, Gilhan and David Pye Ultrasonic Communication by Animals Reviewed by Philip Morrison, 1975 Oct p 134

Salkind, Charles T The Contest Problem Book Reviewed by Morris Kline, 1962 Jan p 157

Salmon, Wesley C, editor Zeno's Paradoxes Reviewed by Philip Morrison, 1971 Mar p 122

Sandage, Allan, compiler The Hubble Atlas of Galaxies Reviewed by Philip Mornson, 1977 Apr p 140

Sandison, A.T., and Don Brothwell, editors
Diseases in Antiquity: A Survey of the Diseases
Injuries and Surgery of Early Populations
Reviewed by Philip Morrison, 1969 Sept
p. 274

Santillana, Giorgio de, editor Galileo's Dialogue on the Great World Systems Reviewed by Ernest Nagel, 1953 Oct p 140

Santillana, Giorgio de, and Hertha von Dechend Hamlet's Mill An Essay on Mith and the Frame of Time Reviewed by Philip Morrison 1969 Nov p 159

Sarton, George Introduction to the History of Science Science and Learning in the Fourteenth Century, Reviewed by I Bernard Cohen 1948 Oct p 54, A History of Science Ancient Science through the Golden Age of Greece Reviewed by Herbert Butterfield 1953 Feb p 95

Sauer, Carl O Agricultural Origins and Dispersals The Domestication of Animals and Foodstuffs Reviewed by Philip Morrison 1969 June p. 138

Savory Theodore Arachinda Reviewed by Philip Morrison 1978 Mar p 36 Savours Ann editor Scott's Last Vocace through the Antarctic Camera of Herbert Ponting, Reviewed by Philip Mortison 1975

Apr p 144

Sawyer W. W. What Is Calculus About' Reviewed by Morris Kline. 1962 Jan. p. 157 Schaaf, William, editor. Mathenatics Our Great Heritage. Reviewed by James R. Newman. 1948 Nov. p. 56

Schafer R. Murray. The Tuning of the World Reviewed by Philip Morrison. 1973 Jan. p. 29 Schaller George B. Serengett. I Kin domet Predators. Reviewed by Prilip Metrica. p. 1973 May p. 116 Watson, W H Understanding Physics Today Reviewed by Ernest Nagel, 1963 Oct p 145 Weber, R L, compiler of anthology A Random Walk in Science Edited by E Mendoza Reviewed by Philip Morrison, 1974 Aug p 112

Weinberg, Steven The First Three Minutes A Modern View of the Origin of the Universe Reviewed by Philip Morrison, 1977 Sept p 52

Welker, Robert Henry Natural Man The Life of William Beebe Reviewed by Philip Mornson, 1978 Mar p 30

Westin, Alan F Privacy and Freedom.

Reviewed by R M Fano, 1968 May p 149

Whalley, Paul E S, and Allan Watson The Dictionary of Butterflies and Moths in Color Introduction by W Donald Duckworth Reviewed by Philip Morrison, 1976 Feb p 136

Whamond, Joan, and David Taylor, editors

Non Invasive Clinical Measurement Reviewed
by Philip Morrison, 1978 Apr p 37

Wheeler, Lynde Phelps Josiah Willard Gibbs Reviewed by I Bernard Cohen, 1951 Nov p 74

White, K. D. Agricultural Implements of the Roman World Reviewed by Philip Morrison, 1970 Aug p. 123

White, Morton, editor The Age of Analysis Reviewed by James R. Newman, 1956 Feb 119

White, Oran R, editor The Solar Output and Its Variation Reviewed by Philip Morrison, 1978 Feb p 34

Whiteside, D. T., editor The Mathematical Papers of Isaac Newton, Vol. 1. 1664 1666 Reviewed by I. Bernard Cohen, 1968 Jan

Whiting, Beatrice B, and John W. M. Whiting in collaboration with Richard Longabaugh Children of Six Cultures. A Psycho Cultural Analysis Reviewed by Philip Morrison, 1975 Sept. p. 190

Whitney, Charles A The Discovery of Our Galaxy Reviewed by Philip Morrison, 1972

Feb p 113

Whitrow, G J The Natural Philosophy of Time Reviewed by Max Black, 1962 Apr p 179

Whittaker, Sir Edmund A History of the Theories of Aether and Electricity The Classical Theories Reviewed by I Bernard Cohen 1952 May p 80, A History of the Theories of Aether and Electricity, Vol II Reviewed by Freeman J Dyson 1954 Mar p 92

Whyte R R., editor Engineering Progress through Trouble Reviewed by Philip Morrison, 1976 June p 130

Migner E P and Abdus Salam, editors

Aspects of Quantum Theory Reviewed by
Philip Morrison 1973 July p 117

Willey, Gordon R An Introduction to American Archaeology, Vol 1 North and Middle America Reviewed by Kent V Flannery, 1967 Aug p 119

Williams Robley C and Harold W Fisher An Electron Vicrographic Atlas of Viruses Reviewed by Philip Morrison, 1975 Apr v 143

Wilson Edward O Sociobiology The New Synthesis Reviewed by John Tyfer Bonner, 1975 Oct p. 129, The Insect Societies. Reviewed by Philip Morrison, 1972 Sept. p. 193

Wilson, I flen Cubson A West African Cook

Book Reviewed by Philip Morrison, 1972 Nov p 129

Wilson, Mitchell Passion to Know The World's Scientists Reviewed by Philip Morrison, 1972 Oct p 121

Winkler, E. M. Stone Properties, Durability in Man's Environment Reviewed by Philip Morrison, 1974 Apr. p. 123

Wittgenstein, Ludwig Philosophical Remarks on the Foundations of Mathematics Reviewed by Gilbert Ryle, 1957 Sept p 251, The Blue and Brown Books Reviewed by James R Newman, 1959 Aug p 149

Woods, Arthur Pest Control A Survey
Reviewed by Philip Morrison, 1975 Aug

Woods, J D, and J N Lythgoe, editors

Underwater Science An Introduction to

Experiments by Divers Reviewed by Philip

Morrison, 1973 Jan p 124

Wright, Helen Explorer of the Universe A Biography of George Ellery Hale Reviewed by Harlow Shapley, 1966 Nov p 153

Wright, Helen, Joan N. Warnow and Charles Weiner, editors The Legacy of George Ellery Hale Evolution of Astronomy and Scientific Institutions, in Pictures and Documents Reviewed by Philip Morrison, 1973 Jan p. 123

Wright of Durham, Thomas An Original Theory or New Hypothesis of the Universe, 1750 Reviewed by Philip Morrison, 1972 Feb p 113

Wingley, Walter, Walter M. Hollister and William G. Denhard Gyroscopic Theory, Design, and Instrumentation Reviewed by Philip Morrison, 1970 Mar. p. 142

Y

York, Herbert Race to Oblivion A Participant's View of the Arms Race Reviewed by Philip Mortison, 1971 Sept p 229

Young, J Z Doubt and Certainty in Science Reviewed by James R Newman, 1952 Mar p 75, A Model of the Brain Reviewed by Frank A Beach, 1965 Apr p 147

Yudkin, John Sweet and Dangerous Reviewed by Philip Morrison, 1972 Oct p 126

Yukawa, Hideki Creativity and Intuition A
Physicist Looks at East and West Translated
by John Bester Reviewed by Philip Morrison,
1973 July p 117

\overline{Z}

Zaslavsky, Claudia Africa Counts Number and Pattern in African Culture Reviewed by Philip Morrison, 1974 Mar p 120

Zeisel, Hans, and Harry Kalven, Jr., with the collaboration of Thomas Callahan and Philip Ennis The American Jury Reviewed by Mark DeWolfe Howe 1966 Sept p 295

Zipf, George Kingsley Human Behavior and the Principle of Least Effort An Introduction to Human Ecology Reviewed by J L Walsh, 1949 Aug. p. 56

TITLES

A

Abortion in the United States, edited by Mary Steichen Calderone Reviewed by James R Newman, 1959 Jan p 149

Abyssal Environment and Ecology of the World Oceans, by Robert J Menzies, Robert Y George and Gilbert T Rowe Reviewed by Philip Morrison, 1976 Oct p 142

Accident, The, by Dexter Masters Reviewed by James R. Newman, 1955 July p 96

Act of Creation, The, by Arthur Koestler Reviewed by George A Miller, 1964 Nov p 145

Adventures of a Mathematician, by S. M. Ulam Reviewed by Philip Morrison, 1977 June p. 136

Aeronautics at the Mid Century, by Jerome C Hunsaker Reviewed by Edward Warner, 1953 Jan p 74

Africa Counts Number and Pattern in African Culture, by Claudia Zaslavsky Reviewed by Philip Morrison, 1974 Mar p 120

African Genesis, by Robert Ardrey Reviewed by Marshall D Sahlins, 1962 July p 169

Age of Analysis, The, edited by Morton White Reviewed by James R. Newman, 1956 Feb 119

Age of Mammals, The, by Bjorn Kurten Reviewed by Philip Morrison, 1972 Apr p 115

Agents of Bacterial Disease, by Albert S Klainer and Irving Geis Reviewed by Philip Morrison, 1974 May p 134

Agricultural Implements of the Roman World, by K. D White Reviewed by Philip Morrison, 1970 Aug p 123

Agricultural Origins and Dispersals The Domestication of Animals and Foodstuffs, by Carl O Sauer Reviewed by Philip Morrison, 1969 June p 138

Aum and Structure of Physical Theory, The, by Pierre Duhem Reviewed by Max Black, 1954 Aug p 78

Air Pollution, Volumes I, II and III, edited by Arthur C Stern Reviewed by Philip Morrison, 1970 Sept p 239

Air War in Indochina, The, edited by Raphael Littauer and Norman Uphoff Reviewed by Philip Morrison, 1972 June p 131

Airborne Camera The World from the Air and Outer Space, by Beaumont Newhall Reviewed by Philip Morrison, 1972 Apr p 113

All Their Own People and the Places They Build, by Jan Wampler Reviewed by Philip Morrison, 1977 June p 136

American Building 2 The Environmental Forces that Shape II, by James Marston Fitch Reviewed by Philip Morrison, 1975 Feb p 109

American Farm, The A Photographic History, by Maisie Conrat and Richard Conrat Reviewed by Philip Morrison, 1977 June p 140

American Jury, The, by Harry Kalven, Ir, and Hans Zeisel, with the collaboration of Thomas Callahan and Philip Ennis Reviewed by Mark DeWolfe Howe, 1966 Sept p 295 American People, The, by Geoffrey Gorer Reviewed by Ralph Linton, 1948 May p 58 Super, Donald E Appraising Vocational Fitness by Means of Psychological Tests Reviewed by Henry S Dyer, 1951 Sept p 110

Sutherland, Anne Gypsies The Hidden Americans Reviewed by Philip Morrison, 1976 Jan p 131

Swedish Nutrition Foundation and the Swedish International Development Authority Famine A Symposium Dealing with Nutrition and Relief Operations in Times of Disaster, edited by Gunnar Blix, Yngve Hofvander and Bo Vahlquist Reviewed by Philip Morrison, 1972 Sept p 194

Swenson, Loyd S, Jr The Ethereal Aether A History of the Michelson Morley-Miller Aether-Drift Experiments, 1880-1930 Reviewed by Philip Morrison, 1972 Apr p 114

Szilard, Gertrud Weiss, and Bernard T Feld, editors, with Kathleen R Winsor The Collected Works of Leo Szilard Scientific Papers Reviewed by Philip Morrison, 1973 July p 117

\mathcal{T}

Tabor, David, and Frank Philip Bowden
Friction An Introduction to Tribiology
Reviewed by Philip Morrison, 1973 Oct p 28

Tarling, D. H. Principles and Applications of Paleomagnetism. Reviewed by Philip Morrison, 1972 Sept. p. 198

Taton, R Reason and Chance in Scientific Discovery Reviewed by James R Newman, 1958 Apr p 141

Taylor, B N, and D N Langenberg, editors
Precision Measurements and Fundamental
Constants Proceedings of the International
Conference of the National Bureau of
Standards, 1970 Reviewed by Philip
Morrison, 1972 Mar p 121

Taylor, David, and Joan Whamond, editors

Non Invasive Clinical Measurement Reviewed
by Philip Morrison, 1978 Apr p 37

Taylor, John Supernunds Reviewed by Philip Morrison, 1976 Feb p 134

Teilhard de Chardin, Pierre The Phenomenon of Man Reviewed by George Gaylord Simpson, 1960 Apr p 201

Teller, Edward, with Allen Brown The Legacy of Hiroshima Reviewed by Albert Szent-Gyorgyi, 1962 May p 185

Teller, Edward, and Francis Owen Rice The Structure of Matter Reviewed by E U Condon, 1949 May p 56

Teller, Edward, Wilson K. Talley, Gary H. Higgins and Gerald W. Johnson. The Constructive Uses of Nuclear Explosives. Reviewed by Philip Morrison, 1968 Aug. p. 121

Termier, Henri and Genevieve Biologie et Ecologie des Premiers Fossiles Reviewed by Philip Morrison, 1969 Aug p 132

Thompson, E. P. The Making of the English Working Class Reviewed by Asa Briggs, 1965 Jan p. 125

Thompson, J Eric S 1 Commentary on the Dresden Codex A Maya Hieroglyphic Book Reviewed by Philip Morrison, 1973 Mar n 124

Thomson, Sir George The Foreseeable Future Reviewed by James R. Newman, 1955 Nov

p 111
Thorndike, Robert L. Personnel Selection, Test
and Measurement Techniques. Reviewed by
Henry S. Dyer, 1951 Sept. p. 110

Tiratsoo, E. N. Oilfields of the World Geology and Geography Reviewed by Philip Morrison, 1974 Sept. p. 201

Titmuss, Richard M The Gift Relationship From Human Blood to Social Policy Reviewed by Philip Morrison, 1971 June p 131

Toynbee, Arnold Civilization on Trial Reviewed by Abram Kardiner, 1948 Aug p 58

Treat, Asher E Mites of Moths and Butterflies
Reviewed by Philip Morrison, 1976 June
p 127

Treistman, Judith M The Prehistory of China An Archaeological Exploration Reviewed by Philip Morrison, 1972 May p 132

Tuan, Yi-Fu China Reviewed by Philip Morrison, 1972 May p 132

Tupper, E. C., and K. J. Rawson Basic Ship Theory Reviewed by Philip Morrison, 1969 Sept. p. 270

Turnbull, H W, editor The Correspondence of Isaac Newton Vol I Reviewed by Sir George Clark, 1960 Jan p 173

U

Ueda, Koichiro, and Robert Austin Bamboo Reviewed by Philip Morrison, 1970 Sept p 242

Ulam, S M Adventures of a Mathematician Reviewed by Philip Morrison, 1977 June p 136

United Nations Peaceful Uses of Atomic Energy Reviewed by E U Condon, 1956 Sept p 241

US Department of Agriculture Yearbook for, 1948 Grass Reviewed by W R Chapline, 1948 Sept p 56

United States Department of the Interior The National Atlas of the United States of America Reviewed by Philip Morrison, 1975 Sept p 192

Uphoff, Norman, and Raphael Littauer, editors

The Air War in Indochina Reviewed by Philip

Morrison, 1972 June p 131

Urey, Harold C The Planets, Their Origin and Development Reviewed by Otto Struve, 1952 Aug p 68

V

van den Haag Ernest, and Ralph Ross *The Fabric of Society An Introduction to the Social Sciences* Reviewed by M Brewster Smith, 1958 Feb p 123

Van Dorn, William G Oceanographs and Seamanship Reviewed by Philip Morrison 1976 May p 130

Van Helden, Albert The Invention of the Telescope Transactions of the American Philosophical Society Reviewed by Philip Morrison, 1978 June p 30

Vaucouleurs, Gerard de, Antoinette de Vaucouleurs and Harold G Corwin, Ir Second Reference Catalogue of Bright Galaxies Reviewed by Philip Morrison, 1977 Apr p 140

Vayda, Andrew P., editor Peoples and Cultures of the Pacific in Anthropological Reader Reviewed by Philip Morrison, 1969 June p 138 Velikovsky, Immanuel Earth in Upheaval. Reviewed by Harrison Brown, 1956 Mar p 127

Verman, Lal C, and Jamath Kaul, editors

Metric Change in India. Reviewed by Philip

Morrison, 1971 Jan p 118

Vigoureux, Paul, and Chester H Page, editors
The International Bureau of Weights and
Measures 1875 1975 Reviewed by Philip
Morrison, 1975 Oct p 132

Villani, Stelio Isotope Separation Reviewed by Philip Morrison, 1977 Aug p 136

Vita-Finzi, Claudio Recent Earth Histori Reviewed by Philip Morrison, 1975 Sept p 194B

Vitaliano, Dorothy B Legends of the Earth Their Geologic Origins Reviewed by Philip Morrison, 1974 July p 129

Vlastos, Gregory *Plato's Universe* Reviewed by Philip Morrison, 1977 Aug p 132

von Dechend, Hertha, and Giorgio de Santillana Hamler's Mill An Essay on Myth and the Frame of Time Reviewed by Philip Morrison, 1969 Nov p 159

von Euw, Eric, and Ian Graham Corpus of May a Hieroglyphic Inscriptions, Volume 2 Part 1 Reviewed by Philip Mornson, 1977 Sept p 46

von Neumann, John The Computer and the Brain Reviewed by S Ulam, 1958 June p 127

W

Waddams, A Lawrence Chemicals from Petroleum An Introductory Survey Reviewed by Philip Morrison, 1974 May p 142

Waddington, C H Behind Appearance A Study of the Relations Between Painting and the Natural Sciences in this Century Reviewed by Philip Morrison, 1971 Feb p 126

Wainwright, S. A., W. D. Biggs, J. D. Currev and J. M. Gosline. Mechanical Design in Organisms. Reviewed by Philip Morrison 1977 Feb. p. 132

Walker, Bruce J., and Ian F. Blake Computer Security and Protection Structures Reviewed by Philip Morrison 1977 Oct. p. 26

Walker, Ernest P and associates Mammals of the World Reviewed by Philip Mortison 1975 July p 128

Wallace Victor H editor Paths to Peace A Study of War Its Causes and Prevention Reviewed by James R Newm in 1958 Mar p 145

Wallwork John A The Distribution and Diversity of Soil Fauna Reviewed by Philip Morrison 1978 June p 36

Walter Heinrich Vegetation of the Earth Translated by Joy Wieser Reviewed by Philip Morrison, 1975 Jan p. 132

Wampler Jan All Their Own People and the Places They Build Reviewed by Philip Morrison 1977 June p 136

Warren Kenneth S. Schistosomiasis. The Evolution of a Medical Literature. Schetch Abstracts and Citations. 1852, 1972. Reviewed by Philip Morrison. 1974 Nov. p. 138.

Watson Allan and Paul F S Whalley Tre Dictionary of Batterflies and Methy in Cel r Introduction by W. Donald Duckweith Reviewed by Philip Metris n. 17'61 cb

p 136 Watson Janes D. Fre Deal e Helix Reviewed h. Andre I wolf 1963 July p 133 Brains, Machines, and Mathematics, by Michael A. Arbib. Reviewed by J. Bronowski, 1964 June p. 130.

Brassey's Infantry Weapons of the World:, 1975, edited by J. I. H. Owen. Reviewed by Philip Morrison, 1975 Aug. p. 124.

Breathing: Physiology, Environment and Lung Disease, by Arend Bouhuys. Reviewed by Philip Morrison, 1974 Sept. p. 202.

Bridges: The Spans of North America, by David Plowden. Reviewed by Philip Morrison, 1974 Nov. p. 143.

Brighter than a Thousand Suns: A Personal History of the Atomic Scientists, by Robert Jungk. Reviewed by Robert R. Wilson, 1958 Dec. p. 145.

Brunel, The Works of Isambard Kingdom: An Engineering Appreciation, edited by Sir Alfred Pugsley. Reviewed by Philip Morrison, 1977 Apr. p. 144.

Butterflies, by Thomas C. Emmel. Reviewed by Philip Morrison, 1976 Feb. p. 136.

(

- Camel and the Wheel, The, by Richard W. Bulliet. Reviewed by Philip Morrison, 1976 Feb. p. 135.
- Cardano, the Gambling Scholar, by Oystein Ore. Reviewed by James R. Newman, 1953 June p. 105.
- Career of Philosophy, The: From the Middle Ages to the Enlightenment, by John Herman Randall, Jr. Reviewed by John Passmore, 1963 May p. 177.
- Carnivorous Plants of the United States and Canada, by Donald E. Schnell. Reviewed by Philip Morrison, 1977 May p. 143
- Carmvorous Plants, The, by Francis Ernest Lloyd. Reviewed by Philip Morrison, 1977 May p. 143.
- Catalog of the Diptera of America North of Mexico, A, under the direction of Alan Stone, Curtis W. Sabrosky, Willis W. Wirth, Richard H. Foote and Jack R. Coulson. Reviewed by Howard E. Evans, 1966 Jan. p. 123

Causality and Chance in Modern Physics, by David Bohm. Reviewed by James R Newman, 1958 Jan. p. 111.

Causality The Place of the Causal Principle in Modern Science, by Mario Bunge. Reviewed by Sidney Morgenbesser, 1961 Feb. p. 175.

Causes of World War Three, The, by C. Wright Mills. Reviewed by James R. Newman, 1959 Feb p 155

Cells and Societies, by John Tyler Bonner Reviewed by Chifford Grobstein, 1956 Jan. p 109

Centuries of Childhood A Social History of Family Life, by Philippe Aries, Reviewed by Dennis H Wrong., 1963 Apr p 181.

Challenge to Affluence, by Gunnar Myrdal.
Reviewed by Leon H. Keyserling, 1964 Jan.
p 141

Chemical Fallout Current Research on Persistent Pesticides, edited by Morton W. Miller and George G. Berg. Reviewed by Philip Morrison, 1970 Sept. p. 239.

Chemicals from Petroleum: An Introductory
Sun et, by A. Lawrence Waddams, Reviewed
by Philip Morrison, 1974 May p. 142.

Children of Sanchez, The: Autobiography of a Mexican Family, by Oscar Lewis, Reviewed by Robert W. White, 1962 Mar. p. 165. Children of Six Cultures: A Psycho-Cultural Analysis, by Beatrice B. Whiting and John W. M. Whiting in collaboration with Richard Longabaugh. Reviewed by Philip Morrison, 1975 Sept. p. 190.

Children's Books. Reviews by James R.

Newman, 1949 Dec. p. 52;, 1951 Dec. p. 72;,
1952 Dec. p. 78;, 1953 Dec. p. 100;, 1954 Dec.
p. 100;, 1955 Dec. p. 112;, 1956 Dec. p. 140;,
1957 Dec. p. 162;, 1958 Dec. p. 149;, 1959
Dec. p. 201;, 1960 Dec. p. 186;, 1961 Dec.
p. 183;, 1962 Dec. p. 180;, 1963 Dec. p. 161;,
1964 Dec. p. 143;, 1965 Dec. p. 114. Reviews
by Philip and Phylis Morrison, 1966 Dec.
p. 141;, 1967 Dec. p. 140;, 1968 Dec. p. 126;,
1969 Dec. p. 136;, 1970 Dec. p. 122;, 1971
Dec. p. 106;, 1972 Dec. p. 112;, 1973 Dec.
p. 131;, 1974 Dec. p. 144;, 1975 Dec. p. 127;,
1976 Dec. p. 134;, 1977 Dec. p. 26.

Children's Games in Street and Playground:
Chasing, Catching, Seeking, Hunting, Racing,
Duelling, Exerting, Daring, Guessing, Acting,
Pretending, by Iona and Peter Opie, Reviewed
by Philip Morrison, 1970 Jan. p. 141.

China, by Yi-Fu Tuan. Reviewed by Philip Morrison, 1972 May p. 132.

China at Work, by Rudolf P. Hommel. Reviewed by Philip Morrison, 1970 Aug. p. 123.

Christo, by David Bourdon. Reviewed by Philip Morrison, 1972 June p. 133.

Ciba Foundation Symposium: Decision Making in National Science Policy. Reviewed by Amos de-Shalit, 1968 Nov. p. 159.

Cuy in History, The, by Lewis Mumford. Reviewed by Henry S. Churchill, 1961 July 175

Civilization on Trial, by Arnold Toynbee.
Reviewed by Abram Kardiner, 1948 Aug.
p. 58.

Chimate: Present, Past and Future. Reviewed by Volume 1: Fundamentals and Climate Now, by H. H. Lamb. Reviewed by Philip Morrison, 1975 June p. 124.

Clouds of the World A Complete Color Encyclopedia, by Richard Scorer. Reviewed by Philip Morrison, 1973 May p. 116.

Codex Nuttall, The, A Picture Manuscript from Ancient Mexico, edited by Zelia Nuttall, with an introduction by Arthur G. Miller. Reviewed by Philip Morrison, 1976 Mar. p. 126.

Collected Papers of Charles Sanders Peirce Vol VII, Science and Philosophy: Vol. VIII, Reviews, Correspondence and Bibliography, edited by Arthur W. Burks. Reviewed by Ernest Nagel, 1959 Apr. p. 185.

Collected Papers of Lord Rutherford of Nelson, The, Vol. II Manchester, published under the scientific direction of Sir James Chadwick, F.R.S. Reviewed by Martin J. Klein, 1965 Mar p. 129.

Collected Works of Leo Szilard, The Scientific Papers, edited by Bernard T. Feld and Gertrude Weiss Szilard, with Kathleen R. Winsor. Reviewed by Philip Morrison, 1973 July p. 117

Comets and Their Origins, The, by R. A.
Lyttleton. Reviewed by James R. Newman,
1953 July p. 88

Command the Morning, by Pearl S. Buck.
Reviewed by V. S. Pritchett, 1959 July p. 159.
Commentary on the Dresden Codex, A: A Maya
Hieroglyphic Book, by J. Eric S. Thompson,
1973 Mar. p. 124.

Communication and Persuasion, by Carl I. Hovland, Irving L. Janis and Harold H. Kelley. Reviewed by Reuel Denney, 1955 Jan. p. 88.

Communication and Social Order, by Hugh Dalziel Duncan. Reviewed by Kenneth E. Boulding, 1963 Jan. p. 157.

Communications Satellite Systems,
Communications Satellite Technology, edited by P. L. Bargellini. Reviewed by Phillip Morrison, 1974 June p. 130.

Communism, Conformity and Civil Liberties, by Samuel A. Stouffer. Reviewed by Morton Grodzins, 1955 June p. 112.

Complete Book of Fruits and Vegetables, The, by Francesco Bianchini and Francesco Corbetta. Paintings in color by Marilena Pistoia. Translated from the Italian by Italia and Alberto Manicelli. Reviewed by Philip Morrison, 1976 Sept. p. 212.

Complete Naturalist, The: A Life of Linnaeus, by Wilfrid Blunt, with the assistance of William T. Stearn. Reviewed by Philip Morrison, 1973 Apr. p. 119.

Comprehensive Biochemistry, edited by Marcel Florkin and Elmer H. Stotz. Reviewed by Alexander Rich, 1969 Feb. p. 126.

Computer and the Brain, The, by John von Neumann. Reviewed by S. Ulam, 1958 June p. 127.

Computer from Pascal to von Neumann, The, by Herman H. Goldstine. Reviewed by Philip Morrison, 1973 Mar. p. 121.

Computer Perspective, A, by the office of Charles and Ray Eames. Reviewed by Philip Morrison, 1973 Mar. p. 121.

Computer Security and Protection Structures, by Bruce J. Walker and Ian F. Blake. Reviewed by Philip Morrison, 1977 Oct. p. 26.

Concepts and Mechanisms of Perception, by R. L. Gregory. Reviewed by Philip Morrison, 1975 June p. 123.

Conceptual Development of Quantum Mechanics, The, by Max Jammer. Reviewed by Rudolf E. Peierls, 1967 Jan. p. 137.

Constructive Uses of Nuclear Explosives, The, by Edward Teller, Wilson K. Talley, Gary H. Higgins and Gerald W. Johnson. Reviewed by Philip Morrison, 1968 Aug. p. 121.

Contest Problem Book, The, by Charles T.
Salkınd. Reviewed by Morris Kline, 1962 Jan.
p. 157.

Contraception, edited by L. L. Langley. Reviewed by Philip Morrison, 1974 Feb. p. 119.

Cook in the Pacific as Told by Selections of His Own Journals 1768-1779, The Explorations of Captain James, edited by A. Grenfell Price. Illustrated by Geoffrey C. Ingleton. Reviewed by Philip Morrison, 1974 Nov. p. 137.

Cook, The Life of Captain James, by J. C. Beaglehole. Reviewed by Philip Morrison, 1974 Nov. p. 137.

Copernican Revolution, The, by Thomas S. Kuhn, Reviewed by James R. Newman, 1957 Oct. p. 155.

Copper: Its Geology and Economics, by Robert Bowen and Ananda Gunatilaka. Reviewed by Philip Morrison, 1978 Mar. p. 41.

Coral Seas, The: Wonders and Mysteries of Underwater Life, by Hans W. Fricke. Reviewed by Philip Morrison, 1974 Nov. p. 137

Corpus of Maya Hieroglyphic Inscriptions, Volume I: Introduction to the Corpus, by Ian Graham, Reviewed by Philip Morrison, 1977 Sept. p. 46.

- Anatomy of an Expedition, by Henry W. Menard. Reviewed by Philip Morrison, 1970 June p. 150.
- Animal Asymmetry, by A. C. Neville. Reviewed by Philip Morrison, 1977 Apr. p. 142.
- Animals in the Service of Man, by Edward Hyams. Reviewed by Philip Morrison, 1972 Nov. p. 129.
- Animals of the Arctic: The Ecology of the Far North, by Bernard Stonehouse. Reviewed by Philip Morrison, 1972 Mar. p. 123.
- Annual Report, 1970, by the Center for Short-Lived Phenomena. Reviewed by Philip Morrison, 1971 Aug. p. 116.
- Antarctic Ecology, Vols 1 and II, edited by M. W. Holdgate. Reviewed by Philip Morrison, 1970 Sept. p. 239.
- Antibodies and Immunity, by G. J. V. Nossal. Reviewed by Philip Morrison, 1970 June p. 149.
- Anti-Seminsm and Emotional Disorder: A
 Psychoanalytic Interpretation, by Nathan W.
 Ackerman and Marie Jahoda. Reviewed by
 Gordon W. Allport, 1950 June p. 56.
- Appraising Vocational Fitness by Means of Psychological Tests, by Donald E. Super. Reviewed by Henry S. Dyer, 1951 Sept. p. 110.
- Aquaculture in Southeast Asia: A Historical Overview, by Shao-Wen Ling. Reviewed by Philip Morrison, 1978 June p. 30.
- Arachnida, by Theodore Savory. Reviewed by Philip Morrison, 1978 Mar. p. 36.
- Archaeoastronomy in Pre-Columbian America, edited by Anthony F. Aveni. Reviewed by Philip Morrison, 1976 Mar. p. 126.
- Archaeology by Experiment, by John Coles Reviewed by Philip Morrison, 1977 Oct. p. 28. Archaeology under Water, by George F. Bass.
- Reviewed by Philip Morrison, 1973 Jan. p. 124.
- Architecture and the Esthetics of Plenty, by James Marston Fitch. Reviewed by Serge Chermayeff, 1962 June p. 183.
- Architecture of War, The, by Keith Mallory and Arvid Ottar. Reviewed by Philip Morrison, 1974 Mar. p. 117.
- Are Quanta Real? A Galilean Dialogue, by J. M. Jauch. Reviewed by Philip Morrison, 1973 Sept. p. 191.
- Arms and Insecurity, by Lewis F. Richardson. Reviewed by O. G. Sutton, 1961 Jan. p 193.
- Arms and Strategy The World Power Structure Today, by Laurence Martin. Reviewed by Philip Morrison, 1975 Mar. p. 125.
- Arms Control, Fall issue of Daedalus Reviewed by James R. Newman, 1961 Mar. p. 197.
- Articulate Mammal, The: An Introduction to Psycholinguistics, by Jean Aitchison. Reviewed by Philip Morrison, 1978 Feb. p. 44.
- Artificial Cells, by Thomas Ming Swi Chang. Reviewed by Philip Morrison, 1972 Nov p. 128.
- Ascent of Man, The, by J Bronowski. Reviewed by Philip Morrison, 1974 Aug. p. 111.
- Asian Drama An Inquiry into the Poverty of Nations, by Gunnar Myrdal, Reviewed by P. C. Mahalanobis, 1969 July p. 128.
- Aspects of Quantum Theory, edited by Abdus Salam and E. P. Wigner, Reviewed by Philip Morrison, 1973 July p. 117.
- Aspects of Scientific Explanation and Other Essays in the Philosophy of Science, by Carl G. Hempel. Reviewed by Stephen Toulmin, 1966 Feb. p. 129.

- Assessment of Men, by the Office of Strategic Services Assessment Staff, Reviewed by Henry S. Dyer, 1951 Sept. p. 110.
- Astronomy and Astrophysics for the, 1970's, Volume 1: Report of the Astronomy Survey Committee. Reviewed by Philip Morrison, 1973 Jan. p. 123.
- Asymmetric Organic Reactions, by James D. Morrison and Harry S. Mosher. Reviewed by Philip Morrison, 1971 July p. 119.
- Atlas of Optical Transforms, by G. Harburn, C. A. Taylor and T. R. Welberry. Reviewed by Philip Morrison, 1976 Mar. p. 128.
- Atom Harvest, by Leonard Betin. Reviewed by James R. Newman, 1956 June p. 141.
- Audubon for the Birds of America, The Original Water-Color Paintings by John James. Introduction by Marshall B. Davidson, Reviewed by Robert M. Mengel, 1967 May 155.
- Authenticity in Art: The Scientific Detection of Forgery, by Stuart J. Fleming. Reviewed by Philip Morrison, 1976 Nov. p. 146.
- Authoritarian Personality, The, by T. W. Adorno, Else Frenkel-Brunswik, Daniel J. Levinson and R. Nevitt Sanford. Reviewed by Gordon W. Allport, 1950 June p. 56.
- Autobiography of Benjamin Rush, The, edited by George W. Corner. Reviewed by James R. Newman, 1949 Jan. p. 56.
- Autobiography of Charles Darwin, The, 1809-1882, with Original Omissions Restored, edited by Nora Barlow. Reviewed by George Gaylord Simpson, 1958 Aug. p. 117.
- Automata Studies, edited by C. É. Shannon and J. McCarthy. Reviewed by John R. Pierce, 1956 Aug. p. 117.

R

- Bacon, Francis, by Benjamin Farrington. Reviewed by James R. Newman, 1950 Mar p. 56.
- Bamboo, by Robert Austin and Koichiro Ueda Reviewed by Philip Morrison, 1970 Sept p 242.
- Basic Ship Theory, by K. J. Rawson and E. C. Tupper. Reviewed by Philip Morrison, 1969 Sept. p. 270
- Bates in the Tropics, Wallace and An Introduction to the Theory of Natural Selection, edited by Barbara G. Beddall Reviewed by Philip Morrison, 1969 Oct. p. 146
- Batteries and Energy Systems, by Charles L Mantell. Reviewed by Philip Morrison, 1971 Mar. p. 120
- Beebe, The Life of William, Natural Man, by Robert Henry Welker. Reviewed by Philip Morrison, 1978 Mar p 30
- Behind Appearance. A Study of the Relations
 Between Painting and the Natural Sciences in
 this Century, by C H Waddington Reviewed
 by Philip Morrison, 1971 Feb p 126
- Berggasse 19: Signund Freud's Home and Offices, Vienna 1938, the Photographs of Edmund Engelman, with an introduction by Peter Gay and captions by Rita Ransoholf Reviewed by Philip Morrison, 1977 Mar
- Beyond the Edge of Certainty: Essays in Contemporary Science and Philosophy, edited by Robert G. Colodny, Reviewed by Max Black, 1965 Aug. p. 109 Biochemical Predestination, by Dean H. Kenyon

- and Gary Steinman. Reviewed by Philip Morrison, 1970 May p. 142.
- Biological Foundations of Language, by Enc H Lenneberg. Reviewed by Charles F. Hockett, 1967 Nov. p. 141.
- Biologie et Écologie des Premiers Fossiles, by Henri Termier and Geneviève Termier. Reviewed by Philip Morrison, 1969 Aug p. 132.
- Biology, by Helena Curtis. Reviewed by Salvador E. Luria, 1969 Mar. p. 131.
- Biology and the Future of Man, edited by Philip Handler. Reviewed by Alfred E. Mirsky, 1970 Oct. p. 135.
- Biology of Earthworms, by C. A. Edwards and J. R. Lofty. Reviewed by Philip Mornson, 1974 June p. 133.
- Biology of Twinning in Man, The, by M. G. Bulmer. Reviewed by Philip Morrison, 1971 Feb. p. 127.
- Biology of Ultimate Concern, The, by Theodosius Dobzhansky. Reviewed by H. Bentley Glass, 1968 Feb. p. 133.
- Biomechanics and Energetics of Muscular Exercise, by Rodolfo Margana. Reviewed by Philip Morrison, 1977 Mar. p. 147.
- Birds of the West Coast, paintings, drawings and text by J. F. Lansdowne. Reviewed by Philip Morrison, 1977 Mar. p. 142.
- Black Holes, Quasars, and the Universe, by Harry L. Shipman. Reviewed by Philip Morrison, 1976 Aug. p. 112.
- Blackett, Patrick Majnard Stuart, Baron Blackett of Chelsea A Biographical Memoir, by Sir Bernard Lovell Reviewed by Philip Morrison, 1976 Oct. p 138.
- Blepharisma The Biology of a Light-Sensitive Protozoan, by Arthur C. Giese, with the collaboration of Shōichirō Suzuki, Robert A. Jenkins, Henry I. Hirshfield, Irwin R. Isquith and Ann M. DiLorenzo Reviewed by Philip Morrison, 1973 June p. 119
- Blue and Brown Books, The, by Ludwig Wittgenstein Reviewed by James R Newman, 1959 Aug p 149
- Blue-Green Algae, The, by G. E. Fogg, W. D. P. Stewart, P. Fay and A. E. Walsby Reviewed by Philip Morrison, 1974 May p. 134
- Board and Table Games from Many Civilizations, by R C Bell Reviewed by James R. Newman, 1961 Aug p 155
- Bog People, The Iron-Age Man Preserved, by P V Glob Reviewed by Translated from the Danish by Rupert Bruce-Mitford Reviewed by Philip Morrison, 1970 Feb p 122
- Bohr, Niels His Life and Work as Seen by His Friends and Colleagues, edited by S. Rozental Reviewed by O. R. Frisch, 1967 June p. 145
- Bohr, Niels The Man, His Science, and the World They Changed, by Ruth Moore Reviewed by O R Frisch, 1967 June p. 145
- Book of a Thousand Tongues, The, edited by Eugene A Nida Reviewed by Philip Morrison, 1977 Sept. p. 46
- Boron, by A. G. Massey and J. Kane Reviewed by Philip Morrison, 1974 Jan p. 125
- Botany and Chemistry of Cannabit, The edited by C.R. B. Joyce and S. H. Curry. Reviewed by Philip Morrison, 1971 Sept. p. 233
- Botany and Chemistry of Hallucinogen: The by Richard Evans Schulte, and Albert Holmann Reviewed by Philip Morrison 1973 Oct p 129
- Bowels of the Earth, Fle, by John Flder Reviewed by Philip Morrison 1977 Feb p 133,

Escher, The Magic Mirror, by Bruno Ernst. Reviewed by Philip Morrison, 1977 July

Essays of a Humanist, by Sir Julian Huxley. Reviewed by A. E. Mirsky, 1964 Oct. p. 135. Essentials of Psychological Testing, by Lee J. Cronbach. Reviewed by Henry S. Dyer, 1951

Sept. p. 110.

Ethereal Aether, The: A History of the Michelson-Morley-Miller Aether-Drift Experiments, 1880-1930, by Loyd S. Swenson, Jr. Reviewed by Philip Morrison, 1972 Apr. p. 114.

Everything in Its Path: Destruction of Community in the Buffalo Creek Flood, by Kai T. Erikson. Reviewed by Philip Morrison, 1977 Aug. p. 135.

Evolution Emerging, by William King Gregory. Reviewed by Alfred S. Romer, 1951 July

European Discovery of America, The: The Northern Voyages A.D. 500-1600, by Samuel Eliot Morison. Reviewed by Philip Morrison, 1972 Mar. p. 122.

Europe's First Monumental Sculpture New Discoveries at Lepenski Vir, by Dragoslav Srejović. Translated from the Serbo-Croat by Lovett F. Edwards. Reviewed by Philip Morrison, 1972 Oct. p. 122

Exact Sciences in Antiquity, The, by O. Neugebauer. Reviewed by I. Bernard

Cohen, 1952 May p. 80. Explorations of Captain James Cook in the

Pacific as Told by Selections of His Own Journals 1768-1779, edited by A. Grenfell Price. Illustrated by Geoffrey C. Ingleton. Reviewed by Philip Morrison, 1974 Nov.

Explorer of the Universe. A Biography of George Ellery Hale, by Helen Wright. Reviewed by Harlow Shapley, 1966 Nov. p. 153.

External Construction by Animals, edited by Nicholas E Collias and Elsie C Collias Reviewed by Philip Morrison, 1977 June

Fabric of Society, The An Introduction to the Social Sciences, by Ralph Ross and Ernest van den Haag. Reviewed by M. Brewster Smith, 1958 Feb. p. 123

Face of the Deep, The, by Bruce C Heezen and Charles D. Hollister. Reviewed by Philip Morrison, 1972 Feb. p. 113. Facts of Life, The, by C D. Darlington

Reviewed by A. E. Mirsky, 1954 Apr. p 92. Famine A Symposium Dealing with Nutrition and Relief Operations in Times of Disaster, edited for the Swedish Nutrition Foundation and the Swedish International Development Authority by Gunnar Blix, Yngve Hofvander and Bo Vahlquist Reviewed by Philip Morrison, 1972 Sept. p. 194

Famine and Human Development The Dutch Hunger Winter of 1944/45, by Zena Stein. Mervyn Susser, Gerhard Saenger and Francis Marolla Reviewed by Philip Morrison, 1977

July p 148

Faster, Faster, by W J Eckert and Rebecca Jones Reviewed by James R. Newman, 1957

Jan p 125

Fermi, Enrico Collected Papers (Note e Memorie) Vol. 1. Italy, 1921-1938, Edited by Edoardo Amaldi, Enrico Persico, Franco

Rasetti and Emilio Segrè. Reviewed by Enrico Persico, 1962 Nov. p. 181.

Fermi, Enrico, Physicist, by Emilio Segrè. Reviewed by Philip Morrison, 1970 June p. 146.

Fibre Reinforcement, by J. A. Catherall. Reviewed by Philip Morrison, 1974 Jan.

Fingerprint Techniques, by Andre A. Moenssens. Reviewed by Philip Morrison, 1972 Apr. p. 116.

First Three Minutes, The: A Modern View of the Origin of the Universe, by Steven Weinberg. Reviewed by Philip Morrison, 1977 Sept.

Flies and Disease, Volume I: Ecology, Classification and Biotic Associations; Volume II: Biology and Disease Transmission, by Bernard Greenberg. Reviewed by Philip Morrison, 1973 Nov. p. 131.

Flight of Thunderbolts, The, by B. F. J. Schonland. Reviewed by James R. Newman, 1951 June p. 71.

Flint Its Origin, Properties and Uses, by Walter Shepherd. Reviewed by Philip Morrison, 1973 July p. 119.

Folktales Told around the World, edited by Richard M. Dorson. Reviewed by Philip Morrison, 1976 Oct. p. 139.

Food in Chinese Culture: Anthropological and Historical Perspectives, edited by K. C. Chang. Reviewed by Philip Mornson, 1978 Feb.

Food Resources, Conventional and Novel, by N. W. Pirie. Reviewed by Philip Morrison, 1970 July p. 131.

Foreseeable Future, The, by Sir George Thomson. Reviewed by James R. Newman, 1955 Nov. p. 111.

Forms and Functions of Twentieth-Century Architecture, edited by Talbot Hamlin. Reviewed by Frederick Gutheim, 1952 July

Foundations of Cyclopean Perception, by Bela Julesz. Reviewed by Philip Morrison, 1972 Aug. p. 118.

Foundations of Inductive Logic, by Roy Harrod. Reviewed by J. Bronowski, 1957 May p. 137.

Foundations of Newton's Alchemy, The, or "The Hunting of the Greene Lyon", by Betty Jo Teeter Dobbs. Reviewed by Philip Morrison. 1976 Aug. p 113.

Freud, The Life and Work of Sigmund, Vol 1, 1856-1890, by Ernest Jones. Reviewed by James R. Newman, 1953 Nov. p. 101.

Freud The Mind of the Moralist, by Philip Rieff. Reviewed by Robert W White, 1959 Sept. p 267.

Freud's Home and Offices, Vienna 1938, The Photographs of Edmund Engleman, Berggasse 19 Signund, with an introduction by Peter Gay and captions by Rita Ransohoff. Reviewed by Philip Morrison, 1977 Mar p 142

Friction An Introduction to Tribiology, by Frank Philip Bowden and David Tabor Reviewed by Philip Morrison, 1973 Oct. p. 128.

From the Closed World to the Infinite Universe, by Alexandre Koyre. Reviewed by James R. Newman, 1957 Oct p 155.

From the Tablets of Sumer, by Samuel Noah Kramer Reviewed by M. E. L. Mallowan, 1957 Feb. p 134

Functions of Sleep, The, by Ernest L. Hartmann Reviewed by Philip Morrison , 1974 May p 133

Galactic Club, The: Intelligent Life in Outer Space, by Ronald L. Bracewell. Reviewed by Philip Morrison, 1975 May p. 117.

Galileo, Discoveries and Opninions of, translation and introduction by Stillman Drake. Reviewed by James R. Newman, 1957 Oct.

Galileo's Dialogue on the Great World Systems, edited by Giorgio de Santillana. Reviewed by Ernest Nagel, 1953 Oct. p. 104.

Game of Disarmament, The: How the United States and Russia Run the Arms Race, by Alva Myrdal. Reviewed by Philip Morrison, 1977 May p. 139.

Gandhi's Truth: On the Origins of Militant Nonviolence, by Erik H. Erikson. Reviewed by S. Gopal, 1970 Apr. p. 122.

Gears from the Greeks: The Antikythera Mechanism-A Calendar Computer from ca. 80 B.C., by Derek de Solla Price, Reviewed by Philip Morrison, 1975 May p. 118.

Geller, A Journal of the Mystery of Uri, Uri:, by Andrija Puharich. Reviewed by Philip Morrison, 1976 Feb. p. 134.

Geller, The Magic of Uri, by The Amazing Randi. Reviewed by Philip Morrison, 1976 Feb. p. 134.

Genetics and the Races of Man, by William C. Boyd. Reviewed by L. C. Dunn, 1950 Dec.

Geochronology: Radiometric Dating of Rocks and Minerals, edited by C. T. Harper. Reviewed by Philip Morrison, 1974 Feb. p. 119.

Geographical Ecology: Patterns in the Distribution of Species, by Robert H. MacArthur. Reviewed by Philip Morrison, 1973 July p. 119.

Geological Hazards: Earthquakes-Tsunamis-Volcanoes-Avalanches-Landslides-Floods, by B. A. Bolt, W. L. Horn, G. A. Macdonald and R. F. Scott. Reviewed by Philip Morrison, 1976 Jan. p. 134.

Geometric Inequalities, by Nicholas D. Kazarmoff. Reviewed by Morris Kline, 1962 Jan p. 157.

Gibbs, Josiah Willard, by Lynde Phelps Wheeler. Reviewed by I. Bernard Cohen, 1951 Nov.

Gift Relationship, The: From Human Blood to Social Policy, by Richard M. Titmuss. Reviewed by Philip Morrison, 1971 June p. 131.

Glacial and Quaternary Geology, by Richard Foster Flint. Reviewed by Philip Morrison, 1973 Apr. p. 120

Glacier Ice, by Austin Post and Edward R. LaChapelle. Reviewed by Philip Morrison, 1973 Apr. p. 120.

Global Circulation of the Atmosphere, The, edited by G. A. Corby. Reviewed by Philip Mornson, 1971 July p. 118.

Gods, Graves, and Scholars. The Story of Archaeology, by C W. Ceram. Reviewed by James R. Newman, 1952 Jan. p. 74.

Goethe on Nature and Science, by Sir Charles Sherrington Reviewed by James R. Newman, 1949 Sept. p. 56.

Grand Design: The Earth from Above, by Georg Gerster. Reviewed by Philip Morrison, 1977 June p. 138

Grass, U.S. Department of Agriculture Yearbook for, 1948. Reviewed by W. R. Chapline, 1948 Sept. p. 56.

- Corpus of Maya Hieroglyphic Inscriptions, Volume 2: Part I, by Ian Graham and Eric von Euw. Reviewed by Philip Morrison, 1977 Sept. p. 46.
- Correspondence of Isaac Newton, The: Vol. I, edited by H. W. Turnbull. Reviewed by Sir George Clark, 1960 Jan. p 173.
- Correspondence Principle and Growth of Science, by Wladyslaw Krajewski. Reviewed by Philip Morrison, 1977 Nov. p. 32.
- Cows, Pigs, Wars and Witches: The Riddles of Culture, by Marvin Harris. Reviewed by Philip Morrison, 1975 Aug. p. 126.
- Creativity and Intuition: A Physicist Looks at East and West, by Hideki Yukawa. Translated by John Bester. Reviewed by Philip Morrison, 1973 July p. 117.
- Crime by Computer, by Donn B. Parker. Reviewed by Philip Morrison, 1977 Oct. p. 26.
- Cristofano and the Plague: A Study in the History of Public Health in the Age of Galileo, by Carlo M. Cipolla. Reviewed by Philip Morrison, 1973 Sept. p. 192.
- Crops and Man, by Jack R. Harlan. Reviewed by Philip Morrison, 1976 Sept. p. 212.
- Culture against Man, by Jules Henry. Reviewed by Marshall D. Sahlins, 1964 May p. 139.
- Curve of Binding Energy, The, by John McPhee. Reviewed by Philip Morrison, 1974 Sept. p. 201.

D

- Daily Life in Florence in the Time of the Medici, by J. Lucas-Dubreton. Reviewed by James R. Newman, 1961 Oct. p. 187.
- Darwin and the Darwinian Revolution, by Gertrude Himmelfarb. Reviewed by Ernst Mayr, 1959 Nov. p. 209.
- Darwin on Man: A Psychological Study of Scientific Creativity, by Howard E. Gruber, together with Darwin's early and unpublished notebooks, transcribed and annotated by Paul H. Barrett. Reviewed by Philip Morrison, 1974 Oct. p. 138.
- Darwin, The Autobiography of Charles, 1809-1882, with Original Ommissions Restored, edited by Nora Barlow. Reviewed by George Gaylord Simpson, 1958 Aug. p. 117.
- Darwin, The Illness of Charles, To Be an Invalid, by Ralph Colp, Jr. Reviewed by Philip Morrison, 1977 Oct. p. 30.
- Dating Techniques for the Archaeologist, edited by Henry N. Michael and Elizabeth K. Ralph. Reviewed by Philip Morrison, 1972 Sept p. 198.
- Davy, Humphry, by Sir Harold Hartley. Reviewed by L. Pearce Williams, 1967 Oct. p. 145.
- Death in Life: Survivors of Hiroshima, by Robert Jay Lifton. Reviewed by J. Bronowski, 1968 June p. 131.
- Desert Locust, The, by Stanley Baron. Reviewed by Philip Morrison, 1972 Nov. p. 127.
- Design for a Brain, by W Ross Ashby. Reviewed by Warren S. McCulloch, 1953 May p. 96.
- Design of Inquiring Systems, The Basic Concepts of Systems and Organization, by C. West Churchman. Reviewed by Philip Morrison, 1972 May p. 128
- Design of Racing Sport Cars, by Colin Campbell. Reviewed by Philip Morrison, 1974 Sept. p. 204.

- Detection of Fish, The, by David Cushing. Reviewed by Philip Morrison, 1974 Mar. p. 119.
- Determinism and Indeterminism in Modern Physics, by Ernst Cassirer. Reviewed by James R. Newman, 1957 Mar. p. 147.
- Dictionary of Butterflies and Moths in Color, The, by Allan Watson and Paul E. S. Whalley, with an introduction by W. Donald Duckworth. Reviewed by Philip Morrison, 1976 Feb. p. 136.
- Discoveries and Opinions of Galileo, translation and introduction by Stillman Drake.
 Reviewed by James R. Newman, 1957 Oct. p. 155.
- Discovery of Neptune, The, by Morton Grosser. Reviewed by James R. Newman, 1963 Mar. p. 169.
- Discovery of Our Galaxy, The, by Charles A. Whitney. Reviewed by Philip Morrison, 1972 Feb. p. 113.
- Discovery of Radioactivity and Transmutation, The, edited by Alfred Romer. Reviewed by Philip Morrison, 1970 Nov. p. 128.
- Diseases in Antiquity: A Survey of the Diseases, Injuries and Surgery of Early Populations, compiled and edited by Don Brothwell and A. T. Sandison. Reviewed by Philip Morrison, 1969 Sept. p. 274.
- Distribution and Diversity of Soil Fauna, The, by John A. Wallwork. Reviewed by Philip Morrison, 1978 June p. 36.
- Dividing, Ruling and Mask-making, by D. F. Horne. Reviewed by Philip Morrison, 1976 Jan. p. 130.
- Diving Medicine, edited by Richard H. Strauss. Reviewed by Philip Morrison, 1978 Mar.
- Dollars for Research: Science and Its Patrons in Nineteenth-Century America, by Howard S. Miller. Reviewed by Philip Morrison, 1971 Jan. p. 117.
- Domination of Nature, The, by William Leiss. Reviewed by Philip Morrison, 1973 June p. 117.
- Double Helix, The, by James D. Watson. Reviewed by André Lwoff, 1968 July p. 133. Doubt and Certainty in Science, by J. Z. Young, Reviewed by James R. Newman, 1952 Mar.
- Dreams of Reason, The Science and Utopias, by Renè Dubos. Reviewed by Ernest Nagel, 1961 Nov. p. 189.
- Dying Patient, The, edited by Orville G. Brim, Jr., Howard E. Freeman, Sol Levine and Norman A. Scotch. Reviewed by Philip Morrison, 1971 Nov. p. 129
- Dynamics of Prejudice A Psychological and Sociological Study of Veterans, by Bruno Bettelheim and Morris Janowitz. Reviewed by Gordon W. Allport, 1950 June p. 56.

E

- Early Hydraulic Civilization in Egypt A Study in Cultural Ecology, by Karl W. Butzer Reviewed by Philip Morrison, 1977 July p. 151
- Earth as a Planet, The, edited by Gerard P Kuiper. Reviewed by Lloyd V Berkner, 1955 Sept. p. 177.
- Earth in Upheaval, by Immanuel Velikovsky Reviewed by Harrison Brown, 1956 Mar p. 127.

- East African Manimals: An Atlas of Evolution in Africa, Volume I, by Jonathan Kingdon. Reviewed by Philip Morrison, 1972 Feb. p. 114.
- East African Mammals: An Atlas of Evolution in Africa. Volume II, Part A (Insectivores and Bats), Volume II, Part B (Hares and Rodents), by Jonathan Kingdon. Reviewed by Philip Morrison, 1975 July p. 128.
- Ecology and Behaviour of Nocturnal Primates Prosimians of Equatorial West Africa, by Pierre Charles-Dominique. Translated by R. D. Martin. Reviewed by Philip Mornson, 1978 Feb. p. 40.
- Ecology of Stray Dogs, The: A Study of Free-Ranging Urban Animals, by Alan M. Beck. Reviewed by Philip Morrison, 1973 Aug. p. 115.
- Economic Aspects of Atomic Power: An
 Exploratory Study, under the direction of Sam
 H. Schurr and Jacob Marschak. Reviewed by
 James R. Newman, 1950 Oct. p. 57
- Eddington, Arthur Stanley, by A. Vibert Douglas. Reviewed by James R. Newman, 1958 July p. 116.
- Education in a Divided World, by James B. Conant. Reviewed by James R. Newman, 1948 Dec. p. 54.
- Educational Measurement, edited by Everet F. Lindquist. Reviewed by Henry S. Dyer, 1951 Sept. p. 110.
- Einstein, Albert: Creator and Rebel, by Banesh Hoffmann, with the collaboration of Helen Dukas. Reviewed by Philip Morrison, 1973 Mar. p. 122.
- Einstein, Albert Philosopher-Scientist, edited by Paul Arthur Schilpp. Reviewed by Sir Edmund Whittaker, 1950 May p. 56.
- Electron Micrographic Atlas of Viruses, An, by Robley C. Williams and Harold W. Fisher. Reviewed by Philip Morrison, 1975 Apr. p. 143.
- Electrostatics and Its Applications, edited by A.
 D. Moore. Reviewed by Philip Morrison, 1973
 Nov p. 133.
- Emergence of Man, The, by John E. Pfeisser. Reviewed by Philip Morrison, 1970 Nov.
- Emergence of Probability, The A Philosophical Study of Early Ideas about Probability, Induction and Statistical Inference, by Ian Hacking Reviewed by Philip Morrison, 1976 Apr. p 133.
- Encyclopedia of Minerals, by Willard Lincoln Roberts, George Robbert Rapp, Jr., and Julius Weber. Reviewed by Philip Morrison, 1975 Feb. p. 111
- Energy Crises in Perspective, by John C Fisher Reviewed by Philip Morrison, 1974 July
- Energy Transformation in Biological Systems
 Ciba Foundation Symposium 31 In Tribute to
 Fritz Lipmann on His 75th Birthday Reviewed
 by Philip Morrison, 1976 Aug p 111
- Engelman, The Photographs of Edmund, Berggasse 19 Sigmund Freud's Home and Offices, Vienna 1938, with an introduction by Peter Gay and captions by Rita Ransohoff Reviewed by Philip Morrison, 1977 Mar p 142
- Engineering Progress through Frouble, selected and edited by R. R. Whyte Renewed by Philip Morrison, 1976 June p. 130
- Epidemic and Peace 1916, by Alfred W. Croshy, Ir Reviewed by Philip Morrison, 1916 Nov. p. 133

Insect Societies, The, by Edward O. Wilson. Reviewed by Philip Morrison, 1972 Sept.

p. 193.

Insects in Flight: A Glimpse Behind the Scenes in Biophysical Research, by Werner Nachtigall. Translated by Harold Oldroyd, Roger H. Abbott and Marguerite Biederman-Thorson. Reviewed by Philip Morrison, 1974 Nov.

Insight and Outlook, by Arthur Koestler. Reviewed by James R. Newman, 1949 Mar.

p. 56.

Insights from the Blind: Comparative Studies of Blind and Sighted Infants, by Selma Fraiberg, with the collaboration of Louis Fraiberg. Reviewed by Philip Morrison, 1977 Nov. p. 32.

Inspection for Disarmament, edited by Seymour Melman. Reviewed by James R. Newman,

1959 Feb. p. 155.

Intellectual Migration, The: Europe and America, 1930-1960, edited by Donald Fleming and Bernard Bailyn, Reviewed by Philip Morrison, 1969 Aug. p. 131.

Intelligent Eye, The, by Richard L. Gregory. Reviewed by Philip Morrison, 1970 Nov.

p. 129.

International Bureau of Weights and Measures 1875-1975, The, edited by Chester H. Page and Paul Vigoureux. Reviewed by Philip Mornson, 1975 Oct. p. 132.

Interstellar Communication, edited by A. G. W. Cameron. Reviewed by James R. Newman,

1964 Feb. p. 141.

Introduction to American Archaeology, An, Vol. I. North and Middle America, by Gordon R. Willey Reviewed by Kent V. Flannery, 1967 Aug. p. 119.

Introduction to Inequalities, An, by Edwin Beckenbach and Richard Bellman. Reviewed by Morris Kline, 1962 Jan. p. 157.

Introduction to Newton's 'Principia', by I. Bernard Cohen. Reviewed by Philip Morrison, 1972 June p 132.

Introduction to Population Genetics Theory, An, by James F. Crow and Motoo Kimura. Reviewed by Philip Morrison, 1970 Nov.

Introduction to the History of Science. Science and Learning in the Fourteenth Century, by George Sarton. Reviewed by I. Bernard Cohen, 1948 Oct. p 54.

Invention of the Telescope, The Transactions of the American Philosophical Society, by Albert Van Helden. Reviewed by Philip Mornson, 1978 June p. 30.

Island of Isis Philae, Temple of the Nile, by William MacQuitty. Reviewed by Philip Morrison, 1977 July p 151

Isotope Separation, by Stelio Villani. Reviewed by Philip Mornson, 1977 Aug. p 136.

Jane's All The World's Aircraft, 1949-50. compiled and edited by Leonard Bridgman. Reviewed by James R. Newman, 1950 Apr. p 62

Jane's Fighting Ships, 1949-50, edited by Francis McMurtne Reviewed by James R. Newman,

1950 Apr p 62

Jane's Surface Skimmers Hovercraft and Hydrofolls, 1971-72, edited by Roy McLeavy. Reviewed by Philip Morrison, 1972 Aug.

Kangaroos, by H. J. Frith and J. H. Calaby. Reviewed by Philip Morrison, 1971 Mar. p. 118.

Kepler, by Max Caspar. Reviewed by Gerald Holton, 1960 Aug. p. 173.

Key Problems of Physics and Astrophysics, by V. Ginzburg. Translated from the Russian by Oleg Glebov. Reviewed by Philip Morrison, 1978 Feb. p. 44.

Keynes, The Life of John Maynard, by R. F. Harrod. Reviewed by James R. Newman, 1951 Apr. p. 71.

Lamp Phosphors, by H. L. Burrus. Reviewed by Philip Morrison, 1974 Jan. p. 125.

Land Speed Record, by Cyril Posthumus. Reviewed by Philip Morrison, 1972 Aug. p. 120.

Last Great Subsistence Crisis in the Western World, The, by John D. Post. Reviewed by Philip Morrison, 1977 July p. 148.

Leakey and the East African Evidence, Louis, Human Origins:, edited by Glynn Ll. Isaac and Elizabeth R. McCown. Reviewed by Philip Morrison, 1976 Sept. p. 216.

Leakey's Luck The Life of Louis Seymour Bazett Leakey, 1903-1972, by Sonia Cole. Reviewed by Philip Morrison, 1976 Sept. p. 216.

Lectures on Psychical Research, by C. D. Broad. Reviewed by George A. Miller, 1963 Nov.

Legacy of George Ellery Hale, The: Evolution of Astronomy and Scientific Institutions, in Pictures and Documents, edited by Helen Wright, Joan N. Warnow and Charles Weiner. Reviewed by Philip Morrison, 1973 Jan. p. 123.

Legacy of Hiroshima, The, by Edward Teller with Allen Brown. Reviewed by Albert Szent-Gyorgyi, 1962 May p. 185.

Legends of the Earth: Their Geologic Origins, by Dorothy B. Vitaliano. Reviewed by Philip Morrison, 1974 July p. 129.

Leprosy: Diagnosis and Management, by Harry L. Arnold, Jr., and Paul Fasal. Reviewed by Philip Morrison, 1975 Mar. p. 126.

Les Objects Fractals Forme, Hasard et Dimension, by Benoît Mandelbrot, Reviewed by Philip Morrison, 1975 Nov. p. 143.

Life: An Introduction to Biology, by George Gaylord Simpson, Colin S. Pittendrigh and Lewis H. Tiffany. Reviewed by Jane Oppenheimer, 1957 Aug. p. 139. Life and Work of Sigmund Freud, The, Vol. I,

1856-1890, by Ernest Jones. Reviewed by James R. Newman, 1953 Nov. p. 101.

Life of Captain James Cook, The, by J. C. Beaglehole Reviewed by Philip Morrison, 1974 Nov p. 137.

Life of David Hume, The, by Ernest Campbell Mossner Reviewed by Stuart Hampshire, 1955 Aug p 84.

Life of John Maynard Keynes, The, by R. F. Harrod. Reviewed by James R. Newman, 1951 Apr p 71

Life of John Stuart Mill, The, by Michael St. John Packe, Reviewed by James R. Newman, 1955 Feb p. 108.

Life of the Past, by George Gaylord Simpson. Reviewed by Julian S. Huxley, 1953 Aug. p. 88.

Life: The Unfinished Experiment, by S. E. Luria. Reviewed by Philip Morrison, 1973 Aug.

Light of the Night Sky, The, by F. E. Roach and Janet L. Gordon. Reviewed by Philip Morrison, 1974 Oct. p. 135.

Linnaeus, A Life of, The Complete Naturalist: by Wilfrid Blunt, with the assistance of William T. Stearn. Reviewed by Philip Morrison, 1973 Apr. p. 119.

Lipmann on His 75th Birthday, In Tribute to Fritz. Energy Transformation in Biological Systems. Ciba Foundation Symposium 31. Reviewed by Philip Morrison, 1976 Aug.

Lisbon Earthquake, The, by T. D. Kendrick. Reviewed by James R. Newman, 1957 July

Literature and Science, by Aldous Huxley. Reviewed by Max Black, 1964 Mar. p. 141.

Living Arts of Nigeria, The, edited by William Fagg, Illustrated by Michael Foreman. Photographs by Harri Peccinotti. Reviewed by Philip Morrison, 1973 Aug. p. 113.

Logic of Scientific Discovery, The, by Karl R. Popper. Reviewed by Stephen E. Toulmin, 1959 May p. 189.

Lonely Furrow, The: Farming in the United States, Japan, and India, by Kusum Nair. Reviewed by Philip Morrison, 1970 July

Lore of Large Numbers, The, by Philip J. Davis. Reviewed by Morris Kline, 1962 Jan. p. 157.

Loyal and the Disloyal, The, by Morton Grodzins. Reviewed by Harry L. Shapiro, 1956 July p. 120.

Lunar Rocks, The, by Brian Mason and William G. Melson. Reviewed by Philip Morrison, 1971 Feb. p. 125.

Lysenko, The Rise and Fall of T. D., by Zhores A. Medvedev. Translated by I. Michael Lerner, Reviewed by Philip Morrison, 1969 Oct. p. 144.

Magic of Uri Geller, The, by The Amazing Randi. Reviewed by Philip Morrison, 1976 Feb. p. 134.

Magic Mirror of M. C. Escher, The, by Bruno Ernst. Reviewed by Philip Morrison, 1977 July p. 146.

Magic, Science and Religion, by Bronislaw Malinowksi. Reviewed by Abram Kardiner, 1948 June p. 58.

Magnetic Compasses and Magnetometers, by Alfred Hine. Reviewed by Philip Morrison, 1969 June p. 140.

Makers of Mathematics, by Alfred Hooper. Reviewed by James R. Newman, 1948 Nov. p. 56.

Making of the English Working Class, The, by E. P. Thompson. Reviewed by Asa Briggs, 1965 Jan. p. 125

Malpighi, Marcello, and the Evolution of Embry ology, by Howard B. Adelmann. Reviewed by Maxwell H. Braverman, 1967 Apr. p. 135.

Mammalian Cell as a Microorganism, The: Genetic and Biochemical Studies in Vitro, by Theodore T. Puck. Reviewed by Philip Morrison, 1973 Feb. p. 120.

- Great Barrier Reef, The, by Isobel Bennett. Reviewed by Philip Morrison, 1974 Nov. p. 137.
- Great Zimbabwe, by P. S. Garlake. Reviewed by Philip Morrison, 1974 Jan. p. 123.
- Growth Rhythms and the History of the Earth's Rotation, edited by G. D. Rosenberg and S. K. Runcorn. Reviewed by Philip Morrison, 1976 July p. 137.
- Gypsy on 18 Wheels: A Trucker's Tale, by Robert Krueger. Reviewed by Philip Morrison, 1976 Jan. p. 131.
- Gypsies: The Hidden Americans, by Anne Sutherland. Reviewed by Philip Morrison, 1976 Jan. p. 131.
- Gyroscopic Theory, Design, and Instrumentation, by Walter Wrigley, Walter M. Hollister and William G. Denhard. Reviewed by Philip Morrison, 1970 Mar. p. 142.

H

- Haldane and Modern Biology, edited by K. R. Dronamraju. Reviewed by Philip Morrison, 1969 Jan. p. 134.
- Hale, A Biography of George Ellery, Explorer of the Universe:, by Helen Wright. Reviewed by Harlow Shapley, 1966 Nov. p. 153.
- Hale, The Legacy of George Ellery: Evolution of Astronomy and Scientific Institutions, in Pictures and Documents, edited by Helen Wright, Joan N. Warnow and Charles Weiner. Reviewed by Philip Morrison, 1973 Jan. p. 123.
- Hallucinogens and Shamanism, edited by Michael J. Harner. Reviewed by Philip Morrison, 1973 Oct. p. 129.
- Hamlet's Mill: An Essay on Myth and the Frame of Time, by Giorgio de Santillana and Hertha von Dechend. Reviewed by Philip Morrison, 1969 Nov. p. 159.
- Handbook of Adhesives, edited by Irving Skeist. Reviewed by Philip Morrison, 1977 Nov. p. 37.
- Handbook on Human Nutritional Requirements, by R. Passmore, D. L. Bocobo, B. M. Nicol and M. Narayana Rao in collaboration with G. H. Beaton and E. M. DeMaeyer. Reviewed by Philip Morrison, 1975 June p. 125.
- Handbook of Integer Sequences, A, by N. J. A. Sloane. Reviewed by Philip Morrison, 1974 Apr. p. 125.
- Handling the Big Jets, by D. P. Davies. Reviewed by Philip Morrison., 1976 July p. 134.
- Harry's Cosmeticology, Formerly the Principles and Practice of Modern Cosmetics, by Ralph G. Harry, revised by J. B. Wilkinson, in cooperation with P. Alexander, E. Green, B. A. Scott and D. L. Wedderburn. Reviewed by Philip Morrison, 1973 Oct. p. 127.
- Harvest of the Palm: Ecological Change in Eastern Indonesia, by James J. Fox. Reviewed by Philip Morrison, 1978 Mar. p. 33.
- Has Man a Future? by Bertrand Russell. Reviewed by James R. Newman, 1962 Feb. 177.
- Healing Hand, The: Man and Wound in the Ancient World, by Guido Majno. Reviewed by Philip Morrison, 1976 June p. 126.
- Health and Disease in Tribal Societies. Ciba Foundation Symposium 49 (new series). Reviewed by Philip Morrison, 1978 May p. 38.

- Hegel: Reinterpretation, Texts, and Commentary, by Walter Kaufmann. Reviewed by Ernest Nagel, 1965 Nov. p. 133.
- Helium: Child of the Sun, by Clifford W. Seibel. Reviewed by Philip Morrison, 1968 Sept. p. 249.
- Helmholtz, Selected Writings of Hermann von, edited, with an introduction, by Russell Kahl. Reviewed by Philip Morrison, 1972 Apr. p. 114.
- Heredity, East and West: Mendel versus Lysenko, by Julian Huxley. Reviewed by James R. Newman, 1949 Nov. p. 54.
- Hilbert, by Constance Reid. Reviewed by Philip Morrison, 1970 July p. 132.
- Historical Supernovae, The, by David H. Clark and F. Richard Stephenson. Reviewed by Philip Morrison, 1978 Jan. p. 28.
- History of Antarctic Exploration and Scientific Investigation, Antarctic Map Folio Series, Folio 19, edited by Vivian C. Bushnell. Reviewed by Philip Morrison, 1977 Aug. p. 132.
- History of Education in Antiquity, A, by H. I. Marrou. Reviewed by James R. Newman, 1957 Nov. p. 165.
- History of Mathematics, A, by J. F. Scott. Reviewed by Ernest Nagel, 1958 Oct. p. 141. History of Medicine, A. Vol. I: Primitive and Archaic Medicine, by Henry E. Sigerist. Reviewed by I. Bernard Cohen, 1951 Feb. p. 66.
- History of Photography, The, by Helmut and Alison Gernsheim. Reviewed by James R. Newman, 1956 May p. 133.
- History of Poliomyelitis, A, by John R. Paul. Reviewed by Philip Morrison, 1971 Apr. p. 125.
- History of Science, A: Ancient Science through the Golden Age of Greece, by George Sarton. Reviewed by Herbert Butterfield, 1953 Feb. 95.
- History of Technology, A, edited by Charles Singer, E. J. Holmyard and A. R. Hall. Reviewed by James R. Newman, 1955 May 108
- History of the Theories of Aether and Electricity: The Classical Theories, by Sir Edmund Whittaker, Reviewed by I. Bernard Cohen, 1952 May p. 80.
- History of the Theories of Aether and Electricity, A, Vol. II, by Sir Edmund Whittaker. Reviewed by Freeman J. Dyson, 1954 Mar.
- Hohokam, The: Desert Farmers & Craftsmen (Excavations at Snaketown, 1964-1965), by Emil W. Haury. Reviewed by Philip Morrison, 1976 Oct. p. 140.
- Honey: A Comprehensive Survey, edited by Eva Crane. Reviewed by Philip Morrison, 1976 Apr. p. 132.
- Hound of Earth, The, by Vance Bourjaily. Reviewed by James R. Newman, 1955 July p. 96.
- How Animals Work, by Knut Schmidt-Nielsen. Reviewed by Philip Morrison, 1972 Oct.
- Hubble Atlas of Galaxies, The, compiled by Allan Sandage. Reviewed by Philip Morrison, 1977 Apr. p. 140.
- Human Animal, The, by Weston La Barre. Reviewed by Marston Bates, 1954 Nov. p. 106.
- Human Behavior: An Inventory of Scientific Findings, by Bernard Berelson and Gary A. Steiner. Reviewed by Jules Henry, 1964 July p. 129.

- Human Behavior and the Principle of Least Effort: An Introduction to Human Ecology, by George Kingsley Zipf. Reviewed by J. L. Walsh, 1949 Aug. p. 56.
- Human Fertility: The Modern Dilemma, by Robert C. Cook. Reviewed by L. S. Penrose, 1951 Aug. p. 65.
- Human Group, The, by George C. Homans. Reviewed by Charles A. Cofer, 1951 Mar. p. 64.
- Human Knowledge, by Bertrand Russell. Reviewed by Y. H. Krikorian, 1949 Feb. p. 56.
- Human Origins: Louis Leakey and the East African Evidence, edited by Glynn Ll. Isaac and Elizabeth R. McCown. Reviewed by Philip Morrison, 1976 Sept. p. 216.
- Human Sexual Response, by William H. Masters and Virginia E. Johnson. Reviewed by Frank A. Beach, 1966 Aug. p. 107.
- Humboldt and the Cosmos, by Douglas Botting. Reviewed by Philip Morrison, 1974 Feb. p. 117.
- Hume, The Life of David, by Ernest Campbell Mossner. Reviewed by Stuart Hampshire, 1955 Aug. p. 84.
- Hungry Fly, The: A Physiological Study of the Behavior Associated with Feeding, by V. G. Dethier. Reviewed by Philip Morrison, 1977 Jan. p. 122.
- Hungry Future, The, by René Dumont and Bernard Rosier. Translated from the French by Rosamund Linell and R. B. Sutcliffe. Reviewed by Philip Morrison, 1970 June p. 147.
- Huxleys, The, by Ronald W. Clark. Reviewed by Robert M. Adams, 1968 Oct. p. 135.
- Hypnosis: Research Developments and Perspectives, edited by Erika Fromm and Ronald E. Shor. Reviewed by Philip Morrison, 1973 Aug. p. 112.

I

- Illusion in Nature and Art, edited by R. L. Gregory and E. H. Gombrich. Reviewed by Philip Morrison, 1975 June p. 123. Illustrated History of Brain Function, An, by Edwin Clarke and Kenneth Dewhurst. Reviewed by Philip Morrison, 1973 Nov.
- p. 132. Impact of New Technologies on the Arms Race, edited by B. T. Feld, T. Greenwood, G. W. Rathjens and S. Weinberg. Reviewed by Philip Morrison, 1971 June p. 132
- Impact of the Natural Sciences on Archaeology.
 The: A Joint Symposium of the Royal Society and the British Academy, edited by T. E. Allibone F.R.S, et al. Reviewed by Philip Morrison, 1971 July p. 117.
- Inadvertent Climate Modification, (Report of the Study of Man's Impact on Climate) Philip Morrison, 1972 June p. 134
- Indian Fishing, Early Methods on the Northwest Coast, by Hilary Stewart, Reviewed by Philip Morrison, 1978 June p. 30.
- Infrared Detectors, edited by Richard D Hudson, Jr., and Jacqueline Wordsworth Hudson, Reviewed by Philip Morrison, 1975 Nov. p. 139
- Infrared System Engineering by Richard D Hudson, Jr. Reviewed by Philip Mortison, 1969 Oct. p. 144

Neuropoisons Their Pathophysiological Actions
Volume 1 Poisons of Animal Origin, edited by
Lance L Simpson Reviewed by Philip
Morrison, 1973 Jan p 125

New Brahmins, The Scientific Life in America, by Spencer Klaw Reviewed by Dorothy Zinberg and Paul Doty, 1969 May p 139 New Maps of Hell, by Kingsley Amis Reviewed

by James R. Newman, 1960 July p 179
New Men, The, by C P Snow Reviewed by
James R. Newman, 1955 July p 96

New World Primates, The Adaptive Radiation and the Evolution of Social Behavior, Languages, and Intelligence, by Martin Moynihan Reviewed by Philip Morrison, 1977 July p 152

New World, The, 1939/1946, by Richard G Hewlett and Oscar E. Anderson, Jr Reviewed by James R Newman, 1962 Aug. p 141 Newcomen, The Steam Engine of Thomas, by L

Newcomen, The Steam Engine of Thomas, by L T C Rolt and J S Allen Reviewed by Philip Morrison, 1978 May p 37

Newton, The Correspondence of Isaac Vol 1, edited by H W Turnbull Reviewed by Sir George Clark, 1960 Jan p 173

Newton, The Mathematical Papers of Isaac, Vol I 1664 1666, edited by D T Whiteside Reviewed by I Bernard Cohen, 1968 Jan p 134

Newton, The Religion of Isaac, by Frank E Manuel Reviewed by Philip Morrison, 1975 Aug p 123

Newton's Alchemy, The Foundations of, or "The Hunting of the Greene Lyon," by Betty Jo Teeter Dobbs Reviewed by Philip Morrison, 1976 Aug p 113

Newton's Tercentenary Celebration Reviewed by

James R. Newman, 1948 July p 56

Next Million Years, The, by Charles Galton
Darwin Reviewed by James R. Newman,
1952 Sept p 165

No More War! by Linus Pauling Reviewed by James R. Newman, 1959 Feb p 155 No Place to Hide, by David Bradley Reviewed

by James R. Newman, 1949 Jan p 59
Nobel Symposium 12 Radiocarbon Variations
and Absolute Chronology, edited by Ingrid U
Olsson Reviewed by Philip Morrison, 1971
July p 117

Nomads of the Long Bow The Striono of Eastern Bolivia, by Allan R. Holmberg Reviewed by Philip Morrison, 1969 Oct p 142

Non Invasive Clinical Measurement, edited by David Taylor and Joan Whamond Reviewed by Philip Morrison, 1978 Apr. p. 37

Non Linear Wave Mechanics A Causal Interpretation, by Louis de Broglie Reviewed by P W Bridgman, 1960 Oct p 201

Not From the Apes, by Bjorn Kurten Reviewed by Philip Morrison, 1972 Apr p 115 Now It Can Be Told, by Leslie R. Groves Reviewed by Longe P. November 1982

Reviewed by James R. Newman, 1962 Aug p 141

Vuclear Tracks in Solids Principles & Applications, by Robert L. Fleischer P. Buford Price and Robert M. Walker Reviewed by Philip Morrison, 1976 May p. 124

Numbers Rational and Irrational, by Ivan Niven Reviewed by Morris Kline, 1962 Jan p 157 0

Occult Sciences in the Renaissance, The A Study in Intellectual Patterns, by Wayne Shumaker Reviewed by Philip Morrison, 1973 Feb p 121

Oceanography and Seamanship, by William G Van Dorn Reviewed by Philip Morrison, 1976 May p 130

Of Time, Work, and Leisure, by Sebastian de Grazia. Reviewed by Kenneth E Boulding, 1963 Jan p 157

Oilfields of the World Geology and Geography, by E N Tiratsoo Reviewed by Philip Morrison, 1974 Sept p 201

Old Ways of Working Wood, by Alex W Bealer Reviewed by Philip Morrison, 1973 Aug p 113

On Aggression, by Konrad Lorenz. Reviewed by S A Barnett, 1967 Feb p 135

On Ancient Central Asian Tracks, by Sir Aurel Stein Reviewed by Philip Morrison, 1975 Mar p 127

On Economic Knowledge Toward a Science of Political Economics, by Adolph Lowe Reviewed by Kenneth E. Boulding, 1965 May 139

On Thermonuclear War, by Herman Kahn Reviewed by James R. Newman, 1961 Mar p 197

Oppenheimer Case, The, by Charles P Curtis Reviewed by Alfred McCormack, 1955 Oct p 112

Oppenheimer Story, The Robert, The Swift Years, by Peter Michelmore Reviewed by Philip Morrison, 1970 June p 146

Optical Production Technology, by D F Horne Reviewed by Philip Morrison, 1973 Aug p 111

Optics, Painting & Photography, by M H
Pirenne Reviewed by Philip Morrison,
1972 Aug. p 118

Orbital and Electron Density Diagrams An Application of Computer Graphics, by Andrew Streitwieser, Jr., and Peter H. Owens Reviewed by Philip Morrison, 1973 Sept p. 191

Origin of Eukaryotic Cells, by Lynn Margulis Reviewed by Philip Morrison, 1971 May p 128

Origin of Races, The, by Carleton S Coon Reviewed by Theodosius Dobzhansky, 1963 Feb p 169

Original Theory or New Hypothesis of the Universe, 1750, An, by Thomas Wright of Durham Reviewed by Philip Morrison, 1972 Feb p 113

Original Water Color Paintings by John James Audubon for the Birds of America, The. Introduction by Marshall B Davidson Reviewed by Robert M Mengel, 1967 May 155

Originality and Competition in Science A Study of the British High Energy Physics Community, by Jerry Gaston Reviewed by Philip Morrison, 1974 June p 129

Origins of Feedback Control, The, by Otto Mayr Reviewed by Philip Morrison, 1971 July p 120

Origins of Modern Science, The, by Herbert Butterfield Reviewed by James R. Newman, 1950 July p 56

Our World from the 1tr, by E. A. Gutkind Reviewed by James R. Newman, 1953 Mar p. 96 \boldsymbol{F}

Palaeoethnobotany The Prehistoric Food Plants of the Near East and Europe, by Jane M Renfrew Reviewed by Philip Morrison, 1974 Feb p 119

Papers of Wilbur and Orville Wright, The, edited by Marvin W McFarland Reviewed by James R. Newman, 1954 May p 88

Paradise Lost The Decline of the Auto Industrial Age, by Emma Rothschild Reviewed by Philip Morrison, 1974 Feb p 118

Parasitic Animals, by Geoffrey Lapage Reviewed by James R. Newman, 1952 Feb p 77

Particle Atlas, Edition Two, The An
Encyclopedia of Techniques for Small Particle
Identification, by Walter C McCrone and
John Gustav Delly Reviewed by Philip
Morrison, 1974 July p 134

Pascal, Blasse The Life and Work of a Realist, by Ernest Mortimer Reviewed by James R. Newman, 1959 Dec p 191

Passion to Know The World's Scientists, by Mitchell Wilson Reviewed by Phillip Morrison, 1972 Oct p 121

Pasteur, Louis Free Lance of Science, by Rene J Dubos Reviewed by I Bernard Cohen, 1950 Feb p 56

Path of the Double Helix, The, by Robert Olby Reviewed by Philip Morrison, 1975 Oct p 136

Paths to Peace A Study of War, Its Causes and Prevention, edited by Victor H Wallace Reviewed by James R Newman, 1958 Mar p 145

Patterns in Nature, by Peter S Stevens
Reviewed by Philip Morrison, 1974 July
p. 133

Peace of Atomic War², by Albert Schweitzer Reviewed by James R Newman, 1959 Feb 155

Peace or Pestilence, by Theodor Rosebury
Reviewed by James R. Newman, 1949 June
p 56

Peaceful Uses of Atomic Energy (United Nations) Reviewed by E. U. Condon, 1956 Sept. p. 241

Pedal Power In Work, Lessure, and Transportation, edited by James C McCullagh Reviewed by Philip Morrison, 1978 Apr p 34

Peirce, Collected Papers of Charles Sanders Vol. VII, Science and Philosophy, Vol VIII, Reviews, Correspondence and Bibliography, edited by Arthur W Burks Reviewed by Ernest Nagel, 1959 Apr p 185

Peoples and Cultures of the Pacific An Anthropological Reader, edited by Andrew P Vayda Reviewed by Philip Morrison, 1969 June p 138

Peril and a Hope, A The Scientists' Movement in America, 1945-47, by Alice Kimball Smith Reviewed by Philip Morrison 1965 Sept p 257

Perpetual Motion The History of an Obsession, by Arthur W J G Ord-Hume. Reviewed by Philip Morrison, 1977 Nov p 30

Perrin, Molecular Reality A Perspective on the Scientific Work of Jean, by Mary Jo Nye Reviewed by Philip Morrison, 1972 July p. 118

Personnel Selection, Test and Measurement Techniques, by Robert L. Thorndike Reviewed by Henry S. Dyer, 1951 Sept p. 110

- Mammalian Chimaeras, by Ann McLaren, FRS Reviewed by Philip Morrison, 1977 Sept p 57
- Mammals of the World, by Ernest P Walker and associates Reviewed by Philip Morrison, 1975 July p 128
- Man Discovers the Galaxies, by Richard Berendzen, Richard Hart and Daniel Seeley Reviewed by Philip Morrison, 1977 Apr p 140
- Man-Made Crystals, by Joel E Arem Reviewed by Philip Morrison, 1974 Aug p 113
- Man The Hunter, edited by Richard B Lee and Irven DeVore Reviewed by Philip Morrison, 1969 Oct p 142
- Manipulation of Air-Sensitive Compounds, The, by D F Shriver Reviewed by Philip Morrison, 1969 Nov p 159
- Mankind Evolving The Evolution of the Human Species, by Theodosius Dobzhansky Reviewed by Sir Gavin de Beer, 1962 Sept p 265
- Marine Animals Partnerships and Other Associations, by R V Gotto Reviewed by Philip Morrison, 1970 Feb p 122
- Mars and the Mind of Man, by Ray Bradbury, Arthur C Clarke, Bruce Murray, Carl Sagan and Walter Sullivan Reviewed by Philip Morrison, 1973 Oct p 127
- Mathematical Papers of Isaac Newton, The, Vol I 1664 1666, edited by D T Whiteside Reviewed by I Bernard Cohen, 1968 Jan p 134
- Mathematical Snapshots, by Hugo Steinhaus Reviewed by James R. Newman, 1950 Nov p. 56
- Mathematics and Plausible Reasoning, by George Polya Reviewed by Morris Kline, 1955 Mar p 107
- Mathematics in Western Culture, by Morris Kline Reviewed by James R Newman, 1954 Feb p 92
- Mathematics, Our Great Heritage, edited by William Schaaf Reviewed by James R Newman, 1948 Nov p 56 Maxwell, James Clerk Physicist and Natural
- Maxwell, James Clerk Physicist and Natural Philosopher, by C W F Everitt Reviewed by Philip Morrison, 1976 May p 127
- May p Man Prevail? by Erich Fromm Reviewed by James R Newman, 1962 Feb p 177
- McBurney's Point The Story of Appendicitis, by Stewart M Brooks Reviewed by Philip Morrison, 1972 Aug p 122
- Measure of the Universe, The, by J D North Reviewed by Dennis Sciama, 1967 Sept p 293
- Measurement Definitions and Theories, edited by C West Churchman and Philburn Ratoosh Reviewed by Herbert Dingle, 1960 June p 189
- Mechanical Design in Organisms, by S A
 Wainwright, W D Biggs, J D Currey and J
 M Gosline Reviewed by Philip Morrison,
 1977 Feb p 132
- Mechanics and Energetics of Animal Locomotion, edited by R McN Alexander and G Goldspink Reviewed by Philip Morrison, 1978 Apr p 34
- Mechanization of the World Picture, The, by E. J. Dijksterhuis Reviewed by A. Rupert Hall, 1961 Dec. p. 177
- Memories, Dreams, Reflections, by C. G. Jung Recorded and edited by Aniela Jaffe Translated from the German by Richard and Clara Winston. Reviewed by Erich Fromm, 1963 Sept. p. 283

- Men and Dinosaurs The Search in Field and Laboratory, by Edwin H Colbert Reviewed by Philip Morrison, 1969 Jan p 134
- Mental Health in the Metropolis The Midtown Manhattan Study, Vol I, by Leo Srole, Thomas S Langner, Stanley T Michael, Marvin K Opler and Thomas A C Rennie Reviewed by Ernest M Gruenberg, 1962 Oct p 159
- Mental Hospital, The, by Alfred H Stanton and Morris S Schwartz Reviewed by Donald A Bloch, 1955 Apr p 100
- Mental Retardation A Review of Research, edited by Harvey A Stevens and Rick Heber Reviewed by E G Boring, 1965 July p 113
- Merchant Ship Types, by R. Munro-Smith Reviewed by Philip Morrison, 1977 Jan p 126
- Methods of Operations Research, by Philip M Morse and George E Kimball Reviewed by J Bronowski, 1951 Oct p 75
- Metric Change in India, edited by Lal C Verman and Jainath Kaul Reviewed by Philip Morrison, 1971 Jan p 118
- Metric System, The A Critical Study of Its
 Principles and Practice, by Maurice DanlouxDumesnils Translated from the French by
 Anne Garrett and J S Rowlinson Reviewed
 by Philip Morrison, 1971 Jan p 118
- Michelson-Morley Miller Aether Drift Experiments, 1880 1930, The Ethereal Aether A History of the, by Loyd S Swenson, Jr Reviewed by Philip Morrison, 1972 Apr p 114
- Military and Civilian Pyrotechnics, by Herbert Ellern Reviewed by Philip Morrison, 1969 Apr p 140
- Mill, The Life of John Stuart, by Michael St John Packe Reviewed by James R Newman, 1955 Feb p 108
- Mimbres Painted Pottery, by J J Brody Reviewed by Philip Morrison, 1978 Apr p 36
- Mind and Matter, by Erwin Schrodinger Reviewed by James R. Newman, 1959 Mar p. 169
- Mind of Man, The, by Nigel Calder Reviewed by Philip Morrison, 1971 May p 129 Mission to Earth Landsat Views the World, by Nicholas M Short, Paul D Lowman, Jr, Stanley C Freden and William A Finch, Jr Reviewed by Philip Morrison, 1977 Aug
- p 132
 Mites of Moths and Butterflies, by Asher E
 Treat Reviewed by Philip Morrison, 1976
- June p 127

 Model of the Brain, A, by J Z Young Reviewed by Frank A Beach, 1965 Apr p 147
- Models of Madness, Models of Medicine, by Miriam Siegler and Humphry Osmond Reviewed by Philip Morrison, 1976 Mar p. 127
- Modern Analytical Chemistry, by W F Pickering Reviewed by Philip Morrison, 1972 May p 134
- Modern Cosmology and the Christian Idea of God, by E A Milne Reviewed by J Bronowski, 1952 Nov p 87
- Molecular Reality A Perspective on the Scientific Work of Jean Perrin, by Mary Jo Nye Reviewed by Philip Morrison 1972 July p 118
- Moon as Viewed by Lunar Orbiter Tie by L. J. Kosofsky and Farouk El Baz. Reviewed by Philip Morrison. 1971 Feb. p. 125
- Masquitos, by J. D. Gillett Resigned by Philip Morrison 1972 May p. 130

- Mound People, The Danish Bronze Age Man Preserved, by P V Glob Translated from the Danish by Joan Bulman Reviewed by Philip Morrison, 1975 Apr p 143
- Moving the Obelisks, by Bern Dibner Reviewed by Philip Morrison, 1970 Aug p 123
- Muses at Work, The Arts, Crafts, and Professions in Ancient Greece and Rome, edited by Carl Roebuck Reviewed by Philip Morrison, 1970 Aug p 123
- Muybridge Man in Motion, by Robert Bartlett Haas Reviewed by Philip Morrison 1976 June p 128
- My Story, by Uri Geller Reviewed by Philip Morrison, 1976 Feb p 134
- My World Line An Informal Autobiographi, by George Gamow Reviewed by Philip Morrison, 1970 June p 146
- Mycenaean World, The, by John Chadwick Reviewed by Philip Morrison, 1977 Feb p 128

N

- National Atlas of the United States of America, The, United States Department of the Interior Reviewed by Philip Morrison, 1975 Sept p 192
- Natural History of Aggression, The, edited by JD Carthy and FJ Ebling Reviewed by Anatol Rapoport, 1965 Oct p 115
- Natural History of Flies, The, by Harold Oldroyd Reviewed by Howard E. Evans. 1966 Jan p 123
- Natural History of Palms, The, by E J H
 Corner Reviewed by Philip Morrison, 1970
 Sept p 242
- Natural History of the African Elephant, The, by Sylvia K Sikes Reviewed by Philip Morrison 1971 Oct p 115
- Natural Man The Life of William Beebe, by Robert Henry Welker Reviewed by Philip Morrison, 1978 Mar p 30
- Natural Philosophy of Cause and Chance, by Max Born Reviewed by Sir Edmund Whittaker, 1950 Jan p 56
- Natural Philosophy of Time, The, by G J
 Whitrow Reviewed by Max Black, 1962 Apr
 p 179
- Nature and Art of Workmanship, The, by David Pye Reviewed by Philip Morrison 1974 May 137
- Nature and the Greeks, by Erwin Schrödinger Reviewed by James R. Newman, 1954 July p. 84
- Nature Books Review by James R Newman 1952 June p 83
- Nature of Maps, The Essays Toward
 Understanding Maps and Mapping by Arthur
 H Robinson and Barbara Bartz Petchenik
 Reviewed by Philip Morrison 1977 Mar
 p 144
- Nature of the Stratigraphical Record The by Derek V Ager Reviewed by Philip Morrison 1975 Sept. p. 194B
- Vavigator's Universe, (The Libro de Cosmo-raphia of 1334 by Pedro de Medina Franslated and with an introduction by Ursula Lamb Reviewed by Fhilip Merria n 1973 Mar p 124
- Veureplarmaco'ozy and Ber war by V. G. Longo. Reviewed by Philip Metri en 1373. Oct. p. 122

Rutherford at Manchester, edited by J B Birks Reviewed by Martin J Klein, 1965 Mar p 129

Rutherford of Nelson, The Collected Papers of Lord, Vol II Manchester, published under the scientific direction of Sir James Chadwick, F.R.S. Reviewed by Martin J. Klein, 1965 Mar. p. 129

S

- Saipan, by Alexander Spoehr Reviewed by James R Newman, 1954 June p 90
- Schistosomiasis The Evolution of a Medical Literature, Selected Abstracts and Citations, 1852 1972, by Kenneth S Warren Reviewed by Philip Morrison, 1974 Nov p 138
- Schools of Psychoanalytic Thought, by Ruth L Munroe Reviewed by Robert P Knight, 1956 Apr p 143
- Science and Civilisation in China, by Joseph Needham Reviewed by James R Newman, 1954 Oct p 86
- Science and Civilisation in China, Volume 4
 Physics and Physical Technology, Part III
 Civil Engineering and Nautics, by Joseph
 Needham, with the collaboration of Wang
 Ling and Lu Gwei-Djen Reviewed by N
 Sivin, 1972 Jan p 113
- Science and English Poetry, by Douglas Bush Reviewed by James R. Newman, 1950 Aug
- Science and Ethics of Equality, The, by David Hawkins Reviewed by Philip Morrison, 1978 Jan p 28
- Science and Government, by Sir Charles Snow Reviewed by P M S Blackett, 1961 Apr p 191
- Science and Politics of I Q, The, by Leon J
 Kamin Reviewed by David Layzer 1975 July
 p 126
- Science Growth and Change, by Henry W Menard Reviewed by Philip Morrison, 1972 May p. 128
- Science in France in the Revolutionary Era,
 Described by Thomas Bugge edited by
 Maurice P Crosland Reviewed by Philip
 Morrison, 1971 Jan p 118
- Science in History, by J D Bernal Reviewed by N W Pine, 1966 Mar p 131
- Science of Yachts, Wind & Waier, The, by H F Kay Reviewed by Philip Morrison 1972 Sept p 204
- Science, Technology and Society in Seventeenth Century England, by Robert K. Merton Reviewed by I. Bernard Cohen. 1973 Feb. p. 117
- Scientific Analysis on the Pocket Calculator, by Jon M. Smith. Reviewed by Philip Morrison 1975 May p. 119
- Scientific Estate, The, by Don K. Price
 Reviewed by Kenneth E. Boulding, 1966 Apr
 p. 131
- Scientific Explanation, by R. B. Braithwaite. Reviewed by J. Bronowski, 1953 Sept. p. 140 Scientific Intellectual. The The Psychological & Sociological Origins of Modern Science, by Lewis S. Feuer Reviewed by A. Rupert Hall 1963 Aug. p. 129
- Scientific Methods in Medieval Archaeology, edited by Rainer Berger Reviewed by Philip Morrison, 1971 July p. 117
- Scientific Papers of Sir Geoffrey Ingram Taylor, The Volume IV, Mechanics of Fluids Miscellar ceas Pepers, edited by G.K.

- Batchelor Reviewed by Philip Morrison, 1971 Nov p 130
- Scientific Results of the Viking Project, reprinted from Journal of Geophysical Research, September 30, 1977 Reviewed by Philip Morrison, 1978 May p 37
- Scientific Study of Unidentified Flying Objects, under the scientific direction of Edward U Condon Edited by Daniel S Gillmor Reviewed by Philip Morrison, 1969 Apr p 139
- Scientist Speculates, The, edited by I J Good Reviewed by James R. Newman, 1964 Sept p. 243
- Scientists and Amateurs The History of the Roy al Society, by Dorothy Stimson Reviewed by I Bernard Cohen, 1949 July p 56
- Scientists under Hitler Politics and the Physics Community in the Third Reich, by Alan D Beyerchen Reviewed by Philip Morrison, 1978 May p 33
- Scott's Last Voyage through the Antarctic Camera of Herbert Ponting, edited by Ann Savours Reviewed by Philip Morrison, 1975 Apr p 144
- Sea Routes to Polynesia American Indians and Early Asiatics in the Pacific, by Thor Heyerdahl Reviewed by Philip Morrison, 1969 June p 138
- Second Reference Catalogue of Bright Galaxies, by Gerard de Vaulcouleurs, Antoinette de Vaucouleurs and Harold G Corwin, Jr Reviewed by Philip Morrison, 1977 Apr p 140
- Second Sex, The, by Simone de Beauvoir Reviewed by Abraham Stone, 1953 Apr p 105
- Secret Sentries in Space, by Philip J Klass Reviewed by Philip Morrison, 1971 Sept p 229
- Security, Loyalty and Science, by Walter Gellhorn Reviewed by I I Rabi, 1951 Jan p 56
- Seeds of Change The Green Revolution and Development in the, 1970's, by Lester R. Brown Reviewed by Philip Morrison, 1970 June p 147
- Selected Writings of Hermann von Helmholtz, edited, with an introduction, by Russell Kahl Reviewed by Philip Morrison, 1972 Apr p 114
- Selections from "London Labour and the London Poor," by Henry Mayhew Edited by John L Bradley Reviewed by Asa Briggs, 1966 July p 123
- Serendipity in St. Reviewed by Helena. A
 Genetical and Medical Study of an Isolated
 Community, by Ian Shine and Reynold Gold
 Reviewed by Philip Morrison, 1970 Nov.
- Serengen A Kingdom of Predators, by George B Schaller Reviewed by Philip Morrison, 1973 May p 116
- Settlement of Polynesia, The A Computer Simulation, by Michael Levison, R. Gerard Ward and John W Webb, with the assistance of Trevor I Fenner and W Alan Sentance Reviewed by Philip Morrison, 1974 Mar p 118
- Sexual Behavior in the Human Female, by Alfred C Kinsey Wardell B Pomeroy, Clyde E. Martin, Paul H Gebhard and others Reviewed by Cora Du Bois 1954 Jan p 82
- Shamanism The Beginnings of Art, by Andreas Lommel Reviewed by Philip Morrison, 1968 Aug. p. 120

- Shapes, Space, and Symmetry, by Alan Holden, with photographs by Doug Kendall Reviewed by Philip Morrison, 1972 Mar p 124
- Silent Spring, by Rachel Carson Reviewed by LaMont C Cole, 1962 Dec p 173
- Sleep Physiology and Pathology, edited by Anthony Kales Reviewed by Philip Morrison, 1970 Aug p 126
- Sleepwalkers, The A History of Man's Changing View of the Universe, by Arthur Koestler Reviewed by I Bernard Cohen, 1959 June p 187
- Slow Virus Diseases of Animals and Man, edited by R. H. Kimberlin. Reviewed by Philip Morrison, 1977 May p. 140
- Slow Viruses, by David H Adams and Thomas M Bell Reviewed by Philip Morrison, 1977 May p 140
- Smugglers, The An Investigation into the World of the Contemporary Smuggler, by Timothy Green Reviewed by Philip Morrison, 1970 Mar p 141
- Snack Food Technology, by Samuel A Matz. Reviewed by Philip Morrison, 1976 Aug p 110
- Social Class and Mental Illness A Community Study, by August B Hollingshead and Fredrick C Redlich Reviewed by Robert W White, 1958 Nov p 155
- Social Stratification in Science, by Jonathan R Cole and Stephen Cole Reviewed by Philip Morrison, 1974 June p 129
- Sociobiology The New Synthesis, by Edward O Wilson Reviewed by John Tyler Bonner, 1975 Oct p 129
- Sociology of Science, The Theoretical and Empirical Investigations, by Robert K. Merton Edited and with an introduction by Norman W Storer Reviewed by Philip Morrison, 1974 June p 129
- Solar Output and Its Variation, The, edited by Oran R. White Reviewed by Philip Morrison, 1978 Feb p 34
- Sons of Science The Story of the Smithsoman Institution and Its Leaders, by Paul H Oehser Reviewed by I Bernard Cohen, 1949 July p 56
- Sounds from Silence Recent Discoveries in Ancient Near Eastern Music, by Anne Draffkorn Kilmer, Richard L. Crocker and Robert R. Brown Reviewed by Philip Morrison, 1977 Oct. p. 28
- Soviet Rocketry Past, Present, and Future, by Michael Stoiko Reviewed by Philip Morrison, 1971 Feb p 125
- Spare Part Surgery The Surgical Practice of the Future, by Donald Longmore. Edited and illustrated by M Ross-Macdonald Reviewed by Philip Morrison, 1969 Jan p 133
- Speciation in Tropical Environments, edited by R. H. Lowe-McConnell Reviewed by Philip Morrison, 1970 Nov. p. 126
- Speech and Brain Mechanisms, by Wilder Penfield and Lamar Roberts Reviewed by Lord Adrian, 1960 May p 207
- Splendor Iridescence, The Structural Colors in the Animal World, by Hilda Simon Reviewed by Philip Morrison, 1971 Nov p 129
- Spotted Hyena, The 1 Study of Predation and Social Behavior, by Hans Kruuk Reviewed by Philip Morrison, 1973 May p 116
- Stanford Two Mile Accelerator, The, edited by R B Neal et al Reviewed by Philip Morrison, 1969 June p 139
- Statistical Theory, by Lancelot Hogben Reviewed by Morris Kline, 1958 May p 143

- Persons at High Risk of Cancer An Approach to Cancer Etiology and Control, edited by Joseph F Fraumeni, Jr Reviewed by Philip Morrison, 1976 Sept p 213
- Pest Control A Survey, by Arthur Woods Reviewed by Philip Morrison, 1975 Aug p 126
- Phage, and the Origins of Molecular Biology, edited by John Cairns, Gunther S Stent and James D Watson Reviewed by John C Kendrew, 1967 Mar p 141

Phenomenon of Man, The, by Pierre Teilhard de Chardin Reviewed by George Gaylord Simpson, 1960 Apr p 201

Philosophiae Naturalis Principia Mathematica Volume I and Volume II, edited by Alexandre Koyre and I Bernard Cohen Reviewed by Philip Morrison, 1972 June p 132

Philosophical Remarks on the Foundations of Mathematics, by Ludwig Wittgenstein Reviewed by Gilbert Ryle, 1957 Sept p 251

Photo Electronic Image Devices Proceedings of the Fourth Symposium, edited by J D McGee, D McMullan, E. Kahan and B L Morgan Reviewed by Philip Morrison, 1970 May p 139

Physical Aspects of Natural Catastrophes, by Adrian E. Scheidegger Reviewed by Philip Morrison, 1976 Jan p 134

Physical Control of the Mind Toward a Psycho crulized Society, by Jose M. R. Delgado Reviewed by Philip Morrison, 1970 Jan p. 141

Physics and Beyond Encounters and Conversations, by Werner Heisenberg Translated from the German by Arnold J Pomerans Reviewed by Philip Morrison, 1971 May p 127

Physics and Philosophy The Revolution in Modern Science, by Werner Heisenberg Reviewed by Victor F Weisskopf, 1958 Sept p 215

Physics of Time Asymmetry, The, by P C W Davies Reviewed by Philip Morrison, 1975 Aug p 124

Physiological Clock, The Circadian Rhythms and Biological Chronometry, by Erwin Bunning Reviewed by Philip Morrison, 1974 Apr p 123

Place and the Early History of the Greenwich Observatory, Francis, by Derek Howse Reviewed by Philip Morrison, 1975 Oct p 132

Plague of Corn, A The Social History of Pellagra, by Daphne A Roe Reviewed by Philip Morrison, 1975 Mar p 126

Planets, Stars and Nebulae Studies with Photopolarimetry, edited by T. Gehrels Reviewed by Philip Morrison, 1974 Nov p 140

Planets, Their Origin and Development, The, by Harold C Urey Reviewed by Otto Struve, 1952 Aug p 68

Plants in the Service of Man 10,000 Years of Domestication, by Edward Hyams Reviewed by Philip Morrison, 1972 Nov p 129 Plato's Universe, by Gregory Vlastos Reviewed

by Philip Mornosn, 1977 Aug. p. 132
Politics of Pure Science, The, by Daniel S
Greenberg, Reviewed by Victor F. Weisskopf,

1968 Mar p 139
Ponting, Scott's Last Voyage through the
Antarctic Camera of Herbert, edited by Ann
Savours. Reviewed by Philip Morrison, 1975
Apr p 144

Popularization of Science, The Review by James R. Newman, 1950 Sept. p 97 Population Growth and Land Use, by Colin Clark Reviewed by Kingsley Davis, 1968 Apr p 133

Portraits from Memory and Other Essays, by Bertrand Russell Reviewed by James R. Newman, 1957 Apr p 153

Precision Measurements and Fundamental
Constants Proceedings of the International
Conference of the National Bureau of
Standards, 1970, edited by D N Langenberg
and B N Taylor Reviewed by Philip
Morrison, 1972 Mar p 121

Pre Columbian Cities, by Jorge E. Hardoy Translated by Judith Thorne Reviewed by Philip Morrison, 1975 Jan p 130

Prehistory of China, The An Archeological Exploration, by Judith M Treistman Reviewed by Philip Morrison, 1972 May p 132.

Prepare Now for a Metric Future, by Frank Donovan Reviewed by Philip Morrison, 1971 Jan p 118

Prevention of Cancer Pointers from Epidemiology, by Richard Doll Reviewed by Philip Morrison, 1970 May p. 140

Principles and Applications of Paleomagnetism, by D H Tarling Reviewed by Philip Morrison, 1972 Sept. p 198

Privacy and Freedom, by Alan F Westin Reviewed by R. M. Fano, 1968 May p. 149 Probability and Scientific Inference, by G. Spencer Brown Reviewed by Ernest Nagel, 1957 Dec. p. 155

Profile of the Negro American, A, by Thomas F Pettigrew Reviewed by Paul Bohannan, 1965 June v 137

Prophets of Decent A Study of the Techniques of the American Agitator, by Leo Lowenthal and Norbert Guterman Reviewed by Gordon W Allport, 1950 June p 56

Proton Flare Project (The July p., 1966 Event),
The Vol. III of the Annals of the IQSY,
International Years of the Quiet Sun, edited by
A C Stickland Reviewed by Philip
Morrison, 1970 Jan p 143

Psychoanalysis, Scientific Method and Philosophy, edited by Sidney Hook Reviewed by Robert W White, 1909 Sept p 267

Psychology in the Wry, edited by Robert A
Baker Reviewed by James R. Newman, 1964
Sept. p. 243

Psychology of Anomalous Experience, The A Cognitive Approach, by Graham Reed Reviewed by Philip Morrison, 1974 Jan p 126

Ps, chology of Left and Right, The, by Michael C Corballis and Ivan L. Beale Reviewed by Philip Morrison, 1977 Apr p 142

Psychotomunetic Drugs, edited by Daniel H Efron Reviewed by Philip Morrison, 1970 Aug p 126

Aug p 126
Pursuit of Science in Revolutionary America, The,
by Brooke Hindle Reviewed by James R
Newman, 1956 Oct. p 141

Puzzle of Pain, The, by Ronald Melzack. Reviewed by Philip Morrison, 1974 Aug p 115

Pyranuds, The, by Ahmed Fakhry Reviewed by Philip Morrison 1974 Oct p 136

R

Race to Oblivion 4 Participant's View of the 4rms Race by Herbert York Reviewed by Philip Morrison, 1971 Sept. p. 229 Radiochemistry and the Discovery of Isotopes, edited by Alfred Romer Reviewed by Phihp Morrison, 1970 Nov p 128

Ramelli, The Various and Ingenious Machines of Agostino, (1588), translated from the Italian and the French, with a biographical study of the author, by Martha Teach Gnudi Technical annotations and a pictorial glossary by Eugene S Ferguson. Reviewed by Philip Morrison, 1977 Feb p 128

Random Walk in Science, A, an anthology compiled by R. L. Weber Edited by E. Mendoza Reviewed by Philip Morrison 1974 Aug p. 112

Reason and Chance in Scientific Discovers, by R. Taton, Reviewed by James R. Newman, 1938 Apr p 141

Recent Earth History, by Claudio Vita Finzi Reviewed by Philip Morrison, 1975 Sept. p 194B

Recommended Dietary Allowances, by National Academy of Sciences Reviewed by Philip Morrison, 1975 June p 125

Red Linut, The The Search for the Edge of tre Universe, by Timothy Ferris Reviewed by Philip Morrison, 1977 Sept. p. 52.

Redshift Controversy, The, by George B Field Halton Arp and John N Bahcall Reviewed by Philip Morrison, 1974 Sept p 206

Regeneration, by Priscillia Mattson. Reviewed by Philip Morrison, 1977 Sept p 57 Rehearsal for Destruction A Study of Political Anti Semitism in Imperial Germany, by Paul

Anti Semitism in Imperial Germany, by Paul W Massing Reviewed by Gordon W Allport, 1950 June p 26

Religion of Isaac Newton, The, by Frank E. Manuel Reviewed by Philip Morrison 1975 Aug p 123

Remote Sensing of Environment, by Joseph Lintz, Jr., and David S. Simonett. Reviewed by Philip Morrison, 1977 June p. 138

Renaissance Rediscovery of Linear Perspective, The, by Samuel Y Edgerton Jr Reviewed by Philip Morrison, 1977 July p 146

Restless Earth A Report on the New Geologs, by Nigel Calder Reviewed by Philip Morrison, 1972 July p 120

Ruddle of the Pyramids, The, by Kurt Mendelssohn Reviewed by Philip Morrison 1974 Oct. p 136

Rise and Fall of T. D. Lysenko, The, by Zhores
A. Medvedev Translated by I. Michael
Lerner Reviewed by Philip Morrison, 1969
Oct. p. 144

Rise of Scientific Philosophy, The by Hans Reichenbach Reviewed by Ernest Nagel 1951 May 70

Rocket Development, by Robert Hutchins Goddard Reviewed by Peter van Dresser 1949 Apr p 56

Roman Roads by Raymond Chevalher Translated by N H Field Reviewed by Philip Morrison 1977 Sept p 52

Roots of Civilization, The The Cognitive Beginings of Man's First 4rt Symbol and Notation, by Alexander Marshack, Reviewed by Philip Morrison, 1972 July p. 117

Royal Society, The Its Origins and Fow ders edited by Sir Harold Hartley Reviewed by Charles E. Raven 1961 May p. 191

Rush, The Autobiography of Benjan in edited by George W Corner Reviewed by Jaires R. Newman 1949 Jan p 56

Ruti erford and the Valure of the 11tom, by E.N. da C. Andrade Reviewed by Martin J. Klein 1965 Mar. p. 123

Vital Balance, The: The Life Process in Mental Health and Illness, by Karl Menninger, with Martin Mayman and Paul Pruyser. Reviewed by E. G. Boring, 1964 Apr. p. 145.

Voyages to the Moon, by Marjorie Hope Nicolson. Reviewed by James R. Newman, 1948 Dec. p. 54.

W

Wallace and Bates in the Tropics: An Introduction to the Theory of Natural Selection, edited by Barbara G. Beddall. Reviewed by Philip Morrison, 1969 Oct. p. 146.

Wandering Albatross, The, by William Jameson. Reviewed by James R. Newman, 1960 Feb.

Water: A Primer, by Luna B. Leopold. Reviewed by Philip Morrison, 1975 Feb. p. 111.

Water: A View from Japan, text by Bernard Barber, photographs by Dana Levy. Reviewed by Philip Morrison, 1975 Feb. p. 111.

Weather Business, The: Observation, Analysis, Forecasting, and Modification, by Bruce W. Atkinson. Reviewed by Philip Morrison, 1970 May p. 140.

Weather Machine, The, by Nigel Calder. Reviewed by Philip Morrison, 1975 June p. 124.

Weeds in Winter, written and illustrated by Lauren Brown. Reviewed by Philip Morrison, 1977 Mar. p. 142.

Wells, H. G., by Richard Hauer Costa. Reviewed by Robert M. Adams, 1967 July 174

West African Cook Book, A, by Ellen Gibson Wilson. Reviewed by Philip Morrison, 1972 Nov. p. 129.

Western Intellectual Tradition, The: From Leonardo to Hegel, by J. Bronowski and Bruce Mazlish. Reviewed by C. P. Snow, 1960 Sept. p. 249.

What is Calculus About? by W. W. Sawyer. Reviewed by Morris Kline, 1962 Jan. p. 157. Wheelwright's Shop, The, by George Sturt. Reviewed by Philip Morrison, 1976 Feb.

p. 135.

Whereby We Thrive A History of American Farming, 1607-1972, by John T. Schlebecker. Reviewed by Philip Morrison, 1977 June p 140.

Whistled Languages, by R. G. Busnel and A. Classe Reviewed by Philip Morrison, 1977 May p. 141

Wild Boy of Aveyron, The, by Harlan Lane. Reviewed by Philip Morrison, 1977 Jan. p. 124

Wildlife in Danger, by James Fisher, Noel Simon, Jack Vincent et al. Reviewed by Philip Morrison, 1969 Nov. p. 162

Wittgenstein, Ludwig A Memoir, by Norman Malcolm, Reviewed by James R. Newman, 1959 Aug. p. 149

Words and Trings A Critical Account of Linguistic Philosophy and a Study in Ideology, by Ernest Gellner Reviewed by Morton White, 1960 Mar p 205

Work and Play Ideas and Experience of Work and Leisure, by Alasdair Clayre, Reviewed by Philip Morrison, 1976 July p. 135.

Works of Isambard Kingdom Brunel, The An Engineering Appreciation, edited by Sir Alfred Pugsley Reviewed by Philip Morrison, 1977 Apr. p. 144.

World Armaments and Disarmament: SIPRI Yearbook, 1975, Stockholm International Peace Research Institute. Reviewed by Philip Morrison, 1976 July p. 132.

World of Leonardo da Vinci, The: Man of Science, Engineer, and Dreamer of Flight, by Ivor B. Hart. Reviewed by J. Bronowski, 1963 June p. 169.

World of Mathematics, The, edited by James R. Newman. Reviewed by Max Black, 1956 Nov. p. 147.

World of Ps, chology, The, edited by G. B. Levitas. Reviewed by Edwin G. Boring, 1963 July p. 159.

World of Strangers, A: Order and Action in Urban Public Space, by Lyn H. Lofland. Reviewed by Philip Morrison, 1974 Aug. p. 112.

World You Never See, The: Underwater Life, written and photographed by Peter Parks. Reviewed by Philip Morrison, 1977 Mar. p. 142.

Wright, The Papers of Wilbur and Orville, edited by Marvin W. McFarland. Reviewed by James R. Newman, 1954 May p. 88.

Y

Yiwara: Foragers of the Australian Desert, by Richard A. Gould. Reviewed by Philip Morrison, 1970 Nov. p. 130.

Z

Zeno's Paradoxes, edited by Wesley C. Salmon. Reviewed by Philip Morrison, 1971 Mar. p. 122.

REVIEWERS

A

Adams, Robert M. Reviews: H G. Wells, by Richard Hauer Costa, 1967 July p. 124; The Huxleys, by Ronald W. Clark, 1968 Oct. p. 135.

Adrian, Lord. Review: Speech and Brain-Mechanisms, by Wilder Penfield and Lamar Roberts, 1960 May p. 207.

Allport, Gordon W. Reviews: Studies in Prejudice, edited by Max Horkheimer and Samuel H. Flowerman; The Authoritarian Personality, by T. W. Adorno, Else Frenkel-Brunswik, Daniel J. Levinson and R. Nevitt Sanford; Dynamics of Prejudice: A Psychological and Sociological Study of Veterans, by Bruno Bettelheim and Morns Janowitz, Anti-Semitism and Emotional Disorder A Psychoanalytic Interpretation, by Nathan W. Ackerman and Marie Jahoda; Rehearsal for Destruction: A Study for Political Anti-Semitism in Imperial Germany, by Paul W. Massing; Prophets of Deceit: A Study of the Techniques of the American Agitator, by Leo Lowenthal and Norbert Guterman, 1950 June p 56.

Ayer, A. J. Review: The Structure of Science, by Ernest Nagel, 1961 June p. 197.

E

Barnett, S. A. Review: On Aggression, by Konrad Lorenz, 1967 Feb. p. 135.

Baskin, Marcus G. Review: Strategy and Conscience, by Anatol Rapoport, 1964 Aug. p. 109.

Bates, Marston. Review: The Human Animal, by Weston La Barre, 1954 Nov. p. 106.

Beach, Frank A. Reviews: A Model of the Brain, by J. Z. Young, 1965 Apr. p. 147; Human Sexual Response, by William H. Masters and Virginia E. Johnson, 1966 Aug. p. 107.

Beer, Sir Gavin de. Review: Mankind Evolving: The Evolution of the Human Species, by Theodosius Dobzhansky, 1962 Sept. p. 265.

Berkner, Lloyd V. Review: The Earth as a Planet, edited by Gerard P. Kuiper, 1955 Sept. p. 177.

Black, Max. Reviews: The Aim and Structure of Physical Theory, by Pierre Duhem, 1954 Aug. p. 78; The World of Mathematics, edited by James R. Newman, 1956 Nov. p. 147; The Natural Philosophy of Time, by G. J. Whitrow, 1962 Apr. p. 179; Literature and Science, by Aldous Huxley, 1964 Mar. p. 141; Bey ond the Edge of Certainty: Essays in Contemporary Science and Philosophy, by Robert G. Colodny, 1965 Aug. p. 109.

Blackett, P. M. S. Review: Science and Government, Sir Charles Snow, 1961 Apr. p. 191.

Bloch, Donald A. Review: *The Mental Hospital*, by Alfred H. Stanton and Morris S. Schwartz, 1955 Apr. p. 100.

Bohannan, Paul. Review: A Profile of the Negro American, by Thomas F. Pettigrew, 1965 June p. 137

Bonner, John Tyler. Review: Sociobiology: The New Synthesis, by Edward O. Wilson, 1975 Oct. p. 129.

Boring, Edwin G. Reviews: The World of Psychology, edited by G. B. Levitas, 1963 July 159; The Vital Balance: The Life Process in Mental Health and Illness, by Karl Menninger with Martin Mayman and Paul Pruyser, 1964 Apr. p. 145; Mental Retardation: A Review of Research, edited by Harvey A. Stevens and Rich Heber, 1965 July p. 113.

Boulding, Kenneth E. Reviews: Of Time, Work, and Leisure, by Sebastian de Grazia; Communication and Social Order, by Hugh Dalziel Duncan, 1963 Jan. p. 157; On Economic Knowledge: Toward a Science of Political Economics, by Adolph Lowe, 1965 May p. 139; The Scientific Estate, by Don K. Price, 1966 Apr. p. 131.

Braverman, Maxwell H. Review: Marcello Malpiglii and the Evolution of Embryology, by Howard B. Adelmann, 1967 Apr. p. 135.

Bridgman, P. W. Review: Non-Linear Wave Mechanics: A Causal Interpretation, by Louis de Broglie, 1960 Oct. p. 201.

Briggs, Asa. Reviews: Technology and the Academics, by Sir Eric Ashby; The Two Cultures and the Scientific Revolution, by C. P. Snow, 1959 Oct. p. 201; The Making of the English Working Class, by E. P. Thompson, 1965 Jan. p. 125; Selections from "London Labour and the London Poor," by Henry Mayhew. Edited by John L. Bradley, 1966 July 123.

- Statistics of Deadly Quarrels, by Lewis F Richardson Reviewed by O G Sutton, 1961 Jan p 193
- Steam Engine of Thomas Newcomen, The, by L T C Rolt and J S Allen Reviewed by Philip Morrison, 1978 May p 37
- Stereochemistry, by G Natta and M Farina Translated by A Dempster, Reviewed by Philip Morrison, 1974 Mar p 122
- Stone Properties, Durability in Man's
 Environment, by E. M. Winkler Reviewed by
 Philip Morrison, 1974 Apr. p. 123
- Stones, Bones and Skin Ritual and Shamanic Art, edited by Anne Trueblood Brodzky, Rose Danesewich and Nick Johnson Reviewed by Philip Morrison, 1977 Nov p 31
- Story of Maps, The, by Lloyd A Brown Reviewed by James R Newman, 1949 Oct p 56
- Strategy and Conscience, by Anatol Rapoport Reviewed by Marcus G Raskin, 1964 Aug p 109
- Strategy of World Order, The Vol I, Toward a
 Theory of War Prevention, Vol II,
 International Law, Vol III, The United
 Nations, Vol IV, Disarmament and Economic
 Development Edited by Richard A Falk and
 Saul H Mendlovitz Reviewed by Anatol
 Rapoport, 1966 Oct p 129
- Stress Analysis of a Strapless Evening Gown, A, edited by Robert A Baker Reviewed by James R Newman, 1964 Sept p 243
- Structural Anthropology, by Claude Levi-Strauss Reviewed by Marshall D Sahlins, 1966 June p 131
- Structural Materials in Animals, by C. H. Brown Reviewed by Philip Morrison, 1976 Apr p. 134
- Structure and Properties of Water, The, by D Eisenberg and W Kauzmann Reviewed by Philip Morrison, 1969 Sept p 265
- Structure of Matter, The, by Francis Owen Rice and Edward Teller Reviewed by E U Condon, 1949 May p 56
- Structure of Science, The, by Ernest Nagel
 Reviewed by A J Ayer, 1961 June p 197
 Structures of the Elements, The, by Jerry

Donohue Reviewed by Philip Morrison, 1976 May p 126

- Studies in Prejudice, edited by Max Horkheimer and Samuel H. Flowerman. Reviewed by Gordon W. Allport, 1950 June p. 56
- Study of Thinking, A, by Jerome S Bruner, Jacqueline J Goodnow and George A Austin Reviewed by Ernest Nagel, 1957 June p. 153
- Study of Writing, A, by I J Gelb Reviewed by James R Newman, 1952 Oct p 85
- Submersibles and Their Use in Oceanography and Ocean Engineering, edited by Richard A Geyer Reviewed by Philip Morrison, 1978 Mar p 30
- Sudden Infant Death Syndrome, edited by Abraham B Bergman, J Bruce Beckwith and C George Ray Reviewed by Philip Morrison, 1971 Mar p 118
- Sun, The, edited by Gerard P Kuiper Reviewed by Jesse L Greenstein, 1954 Sept p 157 Superminds, by John Taylor Reviewed by Philip
- Morrison, 1976 Feb p 134
 Supersting by Noel Mostert Reviewed by Philip
- Supership, by Noel Mostert Reviewed by Philip Morrison, 1975 Jan p 127
- Sweet and Dangerous, by John Yudkin Reviewed by Philip Morrison, 1972 Oct p 126
- Sweetness and Sweeteners, edited by G G Birch, L F Green and C B Coulson

- Reviewed by Philip Morrison, 1972 Oct p 126
- Swift Years, The The Robert Oppenheumer Story, by Peter Michelmore Reviewed by Philip Morrison, 1970 June p 146
- Symmetry A Stereoscopic Guide for Chemists, by Ivan Bernal, Walter C Hamilton and John S Ricci Reviewed by Philip Morrison, 1972 July p 118
- Szılard, The Collected Works of Leo Scientific Papers, edited by Bernard T Feld and Gertrud Weiss Szilard, with Kathleen R Winsor Reviewed by Philip Morrison, 1973 July p 117

T

- Tallest Tower Eiffel and the Bell Epoque, The, by Joseph Harriss Reviewed by Philip Morrison, 1975 Sept p 196
- Taylor, The Scientific Papers of Sir Geoffrey Ingram Volume IV, Mechanics of Fluids Miscellaneous Papers, edited by G K Batchelor Reviewed by Philip Morrison, 1971 Nov p 130
- Technological Society, The, by Jacques Ellul Reviewed by A Rupert Hall, 1965 Feb p 125
- Technology and the Academics, by Sir Eric Ashby Reviewed by Asa Briggs, 1959 Oct p 201
- Think Tanks, by Paul Dickson Reviewed by Philip Morrison, 1972 July p 119
- Thinkers and Tinkers Early American Men of Science, by Silvio A Bedini Reviewed by Philip Morrison, 1976 July p 132
- Therteen The Flight That Failed, by Henry S F Cooper, Jr Reviewed by Philip Morrison, 1973 May p 115
- Time's Arrow and Evolution, by H F Blum Reviewed by Sir George Thomson, 1952 Apr p 88
- Titus Bode Law of Planetary Distances, The Its
 History and Theory, by Michael Martin Nieto
 Reviewed by Philip Morrison, 1973 Sept
 p 194
- To Be an Invalid The Illness of Charles Darwin, by Ralph Colp, Jr Reviewed by Philip Morrison, 1977 Oct p 30
- Top, The Universal Toy, Enduring Pastime, by D W Gould Reviewed by Philip Morrison, 1974 Apr p 124
- Torment of Secrecy, The, by Edward A Shils Reviewed by Harry L Shapiro, 1956 July p 120
- Treatise on Limnology, A Vol 1, Part 1,
 Geography and Physics of Lakes, Part 2,
 Chemistry of Lakes, Vol 11, Introduction to
 Lake Biology and the Limnoplankton, Vol 111,
 Limnological Botany, by G Evelyn
 Hutchinson Reviewed by Philip Morrison,
 1976 Nov p 141
- Tribes of the Sahara, by Lloyd Cabot Briggs Reviewed by James R Newman, 1960 Nov p 217
- Tropical Africa, by George H T Kimble Reviewed by F Fraser Darling, 1961 Sept p. 279
- Tropical Crops Dicotyledons, by J W Purseglove Reviewed by Philip Morrison, 1969 Jan p 133
- Tropical Crops Monocotyledons I and 2, by J W Purseglove Reviewed by Philip Morrison, 1973 June p. 118

- Tuning of the World, The, by R Murray Schafer Reviewed by Philip Morrison, 1978 Jan p 29 Two Cultures and the Scientific Revolution, The, by C P Snow Reviewed by Asa Briggs, 1959 Oct p 201
- Two Cybernetic Frontiers, by Stewart Brand Reviewed by Philip Morrison, 1974 Aug p 112

U

- UFO's Explained, by Philip J Klass Reviewed by Philip Morrison, 1975 May p 117 Ultrashort Light Pulses Picosecond Techniques and Applications, edited by S L Shapiro Reviewed by Philip Morrison, 1978 June p 35
- Ultrasonic Communication by Animals, by Gillian Sales and David Pye Reviewed by Philip Morrison, 1975 Oct. p. 134
- Understanding Doomsday A Guide to the Arms Race for Hawks, Doves and People, by Thomas Gordon Plate Reviewed by Philip Morrison, 1971 June p 132
- Understanding Physics Today, by W H Watson Reviewed by Ernest Nagel, 1963 Oct p 145 Underwater Science An Introduction to
- Experiments by Dners, edited by J D Woods and J N Lythgoe Reviewed by Philip Morrison, 1973 Jan p 124
- U.S. Observatories A Directory and Travel Guide, by H. T. Kirby-Smith Reviewed by Philip Morrison, 1977 Apr. p. 140
- Unsafe at Any Speed The Designed in Dangers of the American Automobile, by Ralph Nader Reviewed by David Hawkins, 1966 May
- Wrbanization at Teotihuacan, Mexico, edited by Rene Millon Reviewed by Philip Morrison, 1975 Jan p 130
- Uri A Journal of the Mystery of Uri Geller, by Andrija Puharich Reviewed by Philip Morrison, 1976 Feb p 134

V

- Vacuum Manual, edited by L. Holland, W. Steckelmacher and J. Yarwood. Reviewed by Philip Morrison, 1975 Feb. p. 110
- Various and Ingenious Machines of Agostino Ramelli (1588), The, translated from the Italian and the French, with a biographical study of the author, by Martha Teach Gnudi Technical annotations and a pictorial glossary by Eugene S Ferguson Reviewed by Philip Morrison, 1977 Feb p 128
- Vegetation of the Earth, by Heinrich Walter Translated by Joy Wieser Reviewed by Philip Morrison, 1975 Jan p 132
- Velocity of Light and Radio Waves, The, by K D Froome and L Essen Reviewed by Philip Morrison, 1970 Aug p 124
- View from Space, The Photographic Exploration of the Planets, by Merton E Davies and Bruce C Murray Reviewed by Philip Morrison, 1972 Apr p 113
- Vinci, The World of Leonardo da Man of Science, Engineer, and Dreamer of Flight by Ivor B Hart Reviewed by J Bronowski 1963 June p 169
- Vision Human and Electronic, by Albert Rose Reviewed by Philip Morrison 1975 June p 123

Kendrew, John C. Review: Phage and the Origins of Molecular Biology, edited by John Cairns, Gunther S. Stent and James D. Watson, 1967 Mar. p. 141.

Keyserling, Leon H. Review: Challenge to Affluence, by Gunnar Myrdal, 1964 Jan.

p. 141.

Klein, Martin J. Reviews: Rutherford and the Nature of the Atom, by E. N. da C. Andrade; Rutherford at Manchester, edited by J. B. Birks; The Collected Papers of Lord Rutherford of Nelson, Vol. II: Manchester, published under the scientific direction of Sir James Chadwick, F.R.S., 1965 Mar. p. 129.

Kline, Morris. Reviews: Mathematics and Plausible Reasoning, by George Polya, 1955 Mar. p. 107; Statistical Theory, by Lancelot Hogben, 1958 May p. 143; The Lore of Large Numbers, by Philip J. Davis; What is Calculus About? by W. W. Sawyer; Geometric Inequalities, by Nicholas D. Kazarinoff; An Introduction to Inequalities, by Edwin Beckenbach and Richard Bellman; Numbers. Rational and Irrational, by Ivan Niven; The Contest Problem Book, by Charles T. Salkind, 1962 Jan. p. 157.

Knight, Robert P. Review: Schools of
Psychoanalytic Thought, by Ruth L. Munroe,

1956 Apr. p. 143.

Krikorian, Y. H. Review: Human Knowledge, by Bertrand Russell, 1949 Feb. p. 56.

I

Layzer, David. Review The Science and Politics of I.Q., by Leon J Kamin, 1975 July p. 126. Linton, Ralph. Review: The American People, by Geoffrey Gorer, 1948 May p. 58. Luria, Salvador E. Review: Biology, by Helena Curtis, 1969 Mar. p. 131. Lwoff, André. Review: The Double Helix, by James D Watson, 1968 July p. 133.

M

Mahalanobis, P. C. Review: Asian Drama. An Inquiry into the Poverty of Nations, by Gunnar Mirdel, 1960 Library 129

Myrdal, 1969 July p 128

Mallowan, M. E. L. Review. From the Tablets of Sumer, by Samuel Noah Kramer, 1957 Feb 134

Mayr, Ernst Review Darwin and the Darwinian Revolution, by Gertrude Himmelfarb, 1959 Nov p 209

McCormack, Alfred Review The Oppenheimer Case, by Charles P Curtis, 1955 Oct p 112.

McCulloch, Warren S. Review Design for a Brain, by W Ross Ashby, 1953 May p 96

Mengel, Robert M Review The Original Water Color Paintings by John James Audubon for the Birds of America. Introduction by Marshall B Davidson, 1967 May p 155

Miller, George A Reviews Lectures on Psychical Research, by C D Broad, 1963

Nov p 171, The Act of Creation, by Arthur

Mirsky, Affred E. Reviews' The Facts of Lafe, by C. D. Darlington, 1954 Apr. p. 92; Essays of a Humanist, by Sir Julian Huxley, 1964 Oct. p. 135, Biology and the Future of Man, edited by Philip Windley, 1970 Co.

Koestler, 1964 Nov. p. 145.

Morgenbesser, Sidney. Review: Causality: The Place of the Causal Principle in Modern Science, by Mario Bunge, 1961 Feb. p. 175. Morrison, Philip. Reviews: A Peril and a Hope: The Scientists' Movement in America 1945-47, by Alice Kimball Smith, 1965 Sept. p. 257; Shamanism: The Beginnings of Art, by Andreas Lommel, 1968 Aug. p. 120; The Constructive Uses of Nuclear Explosives, by Edward Teller, Wilson K. Talley, Gary H. Higgins and Gerald W. Johnson, 1968 Aug. p. 121; Helium: Child of the Sun, by Clifford W. Seibel, 1968 Sept. p. 249; Haldane and Modern Biology, edited by K. R. Dronamraju; Men and Dinosaurs: The Search in Field and Laboratory, by Edwin H. Colbert, 1969 Jan. p. 134; Spare-Part Surgery: The Surgical Practice of the Future, by Donald Longmore. Edited and illustrated by M. Ross-Macdonald; Tropical Crops: Dicotyledons, by J. W. Purseglove, 1969 Jan. p. 133; Military and Civilian Pyrotechnics, by Herbert Ellern, 1969 Apr. p. 140; Scientific Study of Unidentified Flying Objects, under the scientific direction of Edward U. Condon. Edited by Daniel S. Gillmor, 1969 Apr. p. 139; Agricultural Origins and Dispersals: The Domestication of Animals and Foodstuffs, by Carl O. Sauer; Peoples and Cultures of the Pacific: An Anthropological Reader, edited by Andrew P. Vayda; Sea Routes to Polynesia: American Indians and Early Asiatics in the Pacific, by Thor Heyerdahl, 1969 June p. 138; Magnetic Compasses and Magnetometers, by Alfred Hine, 1969 June p. 140; The Stanford Two-Mile Accelerator, edited by R. B. Neal, 1969 June p. 139; Biologie et Ecologie des Prenuers Fossiles, by Henri and Geneviève Termier, 1969 Aug. p. 132; The Intellectual Migration: Europe and America 1930-1960, edited by Donald Fleming and Bernard Bailyn, 1969 Aug. p. 131; Basic Ship Theory, by K. J. Rawson and E. C. Tupper, 1969 Sept. p. 270; Diseases in Antiquity: A Survey of the Diseases, Injuries and Surgery of Early Populations, compiled and edited by Don Brothwell and A. T. Sandison, 1969 Sept. p. 274; The Structure and Properties of Water, by D. Eisenberg and W. Kauzmann, 1969 Sept. p. 265; Infrared System Engineering, by Richard D. Hudson, Jr.; The Rise and Fall of T D Lysenko, by Zhores A. Medvedev. Translated by I. Michael Lerner, 1969 Oct. p 144; Man the Hunter, edited by Richard B. Lee and Irven DeVore; Nomads of the Long Bow The Siriono of Eastern Bolivia, by Allan R. Holmberg, 1969 Oct. p. 142; Wallace and Bates in the Tropics. An Introduction to the Theory of Natural Selection, edited by Barbara G. Beddall, 1969 Oct. p. 146; Hamlet's Mill. An Essay on Myth and the Frame of Time, by Giorgio de Santillana and Heriha von Dechend; The Manipulation of Air-Sensitive Compounds, by D F Shriver, 1969 Nov. p. 159; Wildlife in Danger, by James Fisher, Noel Simon, Jack Vincent et al., 1969 Nov. p 162; Children's Games in Street and Play ground. Chasing, Catching, Seeking, Hunting, Racing, Duelling, Exerting, Daring, Guessing, Acting, Pretending, by Iona and Peter Opie, Physical Control of the Mind: Toward a Psychocustized Society, by Jose M. R Delgado, 1970 Jan p. 141; The Proton Flure Project (The July p. 1966 Event): Vol. 111 of the Annals of the IQSY, International Years of the Quiet Sun, edited by A. C. Suckland, 1970 Jan. p. 143; Marine Animals

Partnerships and Other Associations, by R. V. Gotto: The Bog People: Iron-Age Man Presened by P. V. Glob. Translated from the Danish by Rupert Bruce-Mitford, 1970 Feb. p. 122: Giroscopic Theory, Design, and Instrumentation, by Walter Wrigley, Walter M. Hollister and William G. Denhard, 1970 Mar. p. 142; The Smugglers: An Investigation into the World of the Contemporary Smuggler, by Timothy Green, 1970 Mar. p. 141; Biochemical Predestination, by Dean H. Kenyon and Gary Steinman, 1970 May p. 142; Photo-Electronic Image Devices: Proceedings of the Fourth Symposium, edited by J. D. McGee, D. McMullan, E. Kahan and B. L. Morgan, 1970 May p. 139; Prevention of Cancer: Pointers from Epidemiology, by Richard Doll; The Weather Business: Observation, Analysis, Forecasting, and Modification, by Bruce W. Atkinson, 1970 May 140; Anatomy of an Expedition, by Henry W. Menard, 1970 June p. 150; Antibodies and Immunity, by G. J. V. Nossal, 1970 June p. 149; Enrico Fermi, Physicist, by Emilio Segrè; My World Line: An Informal Autobiography, by George Gamow; The Swift Year: The Robert Oppenheimer Story, by Peter Michelmore, 1970 June p. 146; Seeds of Change: The Green Revolution and Development in the, 1970's, by Lester R. Brown; The Hungry Future, by Rene Dumont and Bernard Rosier. Translated from the French by Rosamund Linell and R. B. Sutcliffe, 1970 June p. 147; Food Resources, Conventional and Novel, by N. W. Pirie; The Lonely Furrow: Farming in the United States, Japan, and India, by Kusum Nair, 1970 July 131; Hilbert, by Constance Reid, 1970 July 132; The Muses at Work: Arts, Crafts, and Professions in Ancient Greece and Rome, edited by Carl Roebuck; Agricultural Implements of the Roman World, by K. D. White; China at Work, by Rudolf P. Hommel; Moving the Obelisks, by Bern Dibner, 1970 Aug. p. 123; Psychotomimetic Drugs, edited by Daniel H. Efron; Sleep: Physiology and Pathology, edited by Anthony Kales, 1970 Aug. p. 126; The Velocity of Light and Radio Waves, by K. D. Froome and L. Essen, 1970 Aug. p. 124; Air Pollution, Vols. I, II and III, edited by Arthur C. Stern; Antarctic Ecology, Vols. I and II, edited by M. W. Holdgate; Chemical Fallout: Current Research on Persistent Pesticides, edited by Morton W. Miller and George G. Berg, 1970 Sept. p. 239; Bamboo, by Robert Austin and Koichiro Ueda; The Natural History of Palms, by E. J. H. Corner, 1970 Sept. p. 242; An Introduction to Population Genetics Theory, by James F. Crow and Motoo Kimura; Serendipity in St. Helena: A Genetical and Medical Study of an Isolated Community, by Ian Shine and Reynold Gold; Speciation in Tropical Environments, edited by R. H. Lowe-McConnell, 1970 Nov. p. 126; The Discovery of Radioactivity and Transmutation, edited by Alfred Romer; Radiochemistry and the Discovery of Isotopes, edited by Alfred Romer, 1970 Nov. p. 128; The Emergence of Man, by John E. Pfeisser: Ymara: Foragers of the Australian Desert, Richard A. Gould, 1970 Nov. p 130; The Intelligent Eye, by Richard L. Gregory, 1970 Nov. p. 129; Dollars for Research: Science and Its Patrons in Nineteenth-Century America, by Howard S. Miller, 1971 Jan. p. 117; Metric Change in India, edited by Lal C. Verman and Jainath

Bronowski, J. Reviews: Methods of Operations Research, by Philip M. Morse and George E. Kimball, 1951 Oct. p. 75; Modern Cosmology and the Christian Idea of God, by E. A. Milne, 1952 Nov. p. 87; Scientific Explanation, by R. B. Braithwaite, 1953 Sept. p. 140; Foundations of Inductive Logic, by Roy Harrod, 1957 May 137; The World of Leonardo da Vinci: Man of Science, Engineer, and Dreamer of Flight, by Ivor B. Hart, 1963 June p. 169; Brains, Machines, and Mathematics, by Michael A. Arbib, 1964 June p. 130; Death in Life: Survivors of Hiroshima, by Robert Jay Lifton, 1968 June p. 131.

Brown, Harrison. Review: Earth in Upheaval, by Immanuel Velikovsky, 1956 Mar. p. 127.

Butterfield, Herbert. Review: A History of Science: Ancient Science through the Golden Age of Greece, by George Sarton, 1953 Feb. p. 95.

(

Chapline, W. R. Review: *Grass*, U.S. Department of Agriculture Yearbook for 1948, 1948 Sept. p. 56.

Chermayeff, Serge. Review: Architecture and the Esthetics of Plenty, by James Marston Fitch, 1962 June p. 183.

Churchill, Henry S. Review: *The City in History*, by Lewis Mumford, 1961 July p. 175.

Clark, Sir George. Review: The Correspondence of Isaac Newton: Vol. I, edited by H. W. Turnbull, 1960 Jan. p. 173.

Cofer, Charles A. Review: The Human Group, by George C. Homans, 1951 Mar. p. 64. Cohen, I. Bernard. Reviews: Introduction to the History of Science: Science and Learning in the Fourteenth Century, by George Sarton, 1948 Oct. p. 54; Scientists and Amateurs: The History of the Royal Society, by Dorothy Stimson; Sons of Science: The Story of the Smithsonian Institution and Its Leaders, by Paul H. Oehser, 1949 July p. 56; Louis Pasteur: Free Lance of Science, by René Dubos, 1950 Feb. p. 56; A History of Medicine, Vol. I: Primitive and Archaic Medicine, by Henry E. Sigerist, 1951 Feb. p. 66; Josiah Willard Gibbs, by Lynde Phelps Wheeler, 1951 Nov. p. 74; The Exact Sciences in Antiquity, by O. Neugebauer; History of the Theories of Aether and Electricity: The Classical Theories, by Sir Edmund Whittaker, 1952 May p. 80; The Sleepwalkers: A History of Man's Changing View of the Universe, by Arthur Koestler, 1959 June p. 187; The Mathematical Papers of Isaac Newton, Vol. I: 1664-1666, edited by D. T. Whiteside, 1968

Merton, 1973 Feb. p. 117. Cole, LaMont C. Review: Silent Spring, by Rachel Carson, 1962 Dec. p. 173.

Jan. p. 134; Science, Technology and Society in

Seventeenth-Century England, by Robert K.

Condon, E. U. Reviews: The Structure of Matter, by Francis Owen Rice and Edward Teller, 1949 May p. 56; Peaceful Uses of Atomic Energy, United Nations, 1956 Sept. p. 241.

Γ

Darling, F. Fraser. Review: Tropical Africa, by George H. T. Kimble, 1961 Sept. p. 279. Davis, Kingsley. Review: Population Growth and Land Use, by Colin Clark, 1968 Apr. p. 133. de Beer, Sir Gavin. Review: Mankind Evolving: The Evolution of the Human Species, by Theodosius Dobzhansky, 1962 Sept. p. 265.

Denney, Reuel. Review: Communication and Persuasion, by Carl I. Hovland, Irving L. Janis and Harold H. Kelley, 1955 Jan. p. 88.

de-Shalit, Amos. Review: Ciba Foundation Symposium: Decision Making in National Science Policy, 1968 Nov. p. 159.

Dingle, Herbert. Review: Measurement:
Definitions and Theories, edited by C. West
Churchman and Philburn Ratoosh, 1960 June
p. 189.

Dobzhansky, Theodosius. Review: The Origin of Races, by Carleton S. Coon, 1963 Feb. p. 169. Doty, Paul, and Dorothy Zinberg. Review: The

New Brahmins: Scientific Life in America, by Spencer Klaw, 1969 May p. 139.

Dresser, Peter van. Review: Rocket
Development, by Robert Hutchins Goddard,
1949 Apr. p. 56.

Du Bois, Cora. Review: Sexual Behavior in the Human Female, by Alfred C. Kinsey, Wardell B. Pomeroy, Clyde E. Martin, Paul H. Gebhard and others, 1954 Jan. p. 82.

Dunn, Leslie C. Review: Genetics and the Races of Man, by William C. Boyd, 1950 Dec. p. 58.

Dyer, Henry S. Reviews: Essentials of Psychological Testing, by Lee J. Cronbach; Personnel Selection, Test and Measurement Techniques, by Robert L. Thorndike; Appraising Vocational Fitness by Means of Psychological Tests, by Donald E. Super; Assessment of Men, by the Office of Strategic Services Assessment Staff; Educational Measurement, edited by Everet F. Lindquist, 1951 Sept. p. 110.

Dyson, Freeman J. Review: A History of the Theories of Aether and Electricity, Vol. II, by Sir Edmund Whittaker, 1954 Mar. p. 92.

E

Evans, Howard E. Reviews: A Catalog of the Diptera of America North of Mexico, under the direction of Alan Stone, Curtis W. Sabrosky, Willis W. Wirth, Richard H. Foote and Jack R. Coulson; The Natural History of Flies, by Harold Oldroyd, 1966 Jan. p. 123.

F

Fano, R. M. Review: Privacy and Freedom, by Alan F. Westin, 1968 May p. 149.

Flannery, Kent V. Review: An Introduction to American Archaeology, Vol. 1: North and Middle America, by Gordon R. Willey, 1967 Aug. p. 119.

Frisch, O. R. Reviews: Niels Bohr: His Life and Work as Seen by His Friends and Colleagues, edited by S. Rozenthal; Niels Bohr: The Man, His Science, and the World They Changed, by Ruth Moore, 1967 June p. 145. Fromm, Erich. Review: Memories, Dreams, Reflections, by C. G. Jung. Recorded and edited by Aniela Jaffé. Translated from the German by Richard and Clara Winston, 1963 Sept. p. 283.

G

Glass, H. Bentley. Review: The Biology of Ultimate Concern, by Theodosius Dobzhansky, 1968 Feb. p. 133.

Gopal, S. Review: Gandhi's Truth: On the Origins of Militant Nonviolence, by Erik H. Erikson, 1970 Apr. p. 122.

Greenstein, Jesse L. Review: The Sun, edited by Gerard P. Kuiper, 1954 Sept. p. 157. Grobstein, Clifford. Review: Cells and Societies,

by John Tyler Bonner, 1956 Jan. p. 109. Grodzins, Morton. Review: Communism, Conformity and Civil Liberties, by Samuel A.

Stouffer, 1955 June p. 112.
Gruenberg, Ernest M. Review: Mental Health in the Metropolis: The Midtown Manhattan Study, Vol. 1, by Leo Srole, Thomas S. Langner, Stanley T. Michael, Marvin K. Opler and Thomas A. C. Rennie, 1962 Oct. p. 159.

Gutheim, Frederick. Review: Forms and Functions of Twentieth-Century Architecture, edited by Talbot Hamlin, 1952 July p. 77.

H

Hall, A. Rupert. Reviews: The Mechanization of the World Picture, by E. J. Dijksterhuis, 1961 Dec. p. 177; The Scientific Intellectual: The Psychological & Sociological Origins of Modern Science, by Lewis S. Feuer, 1963 Aug. p. 129; The Technological Society, by Jacques Ellul, 1965 Feb. p. 125.

Hampshire, Stuart. Review: The Life of David Hume, by Ernest Campbell Mossner, 1955 Aug. p. 84.

Hawkins, David. Review: Unsafe at Any Speed: The Designed-in Dangers of the American Automobile, by Ralph Nader, 1966 May p. 137.

Henry, Jules. Review: Human Behavior: An Inventory of Scientific Findings, by Bernard Berelson and Gary A. Steiner, 1964 July p. 129.

Hockett, Charles F. Review: Biological Foundations of Language, by Eric H. Lenneberg, 1967 Nov. p. 141.

Holton, Gerald. Review: Kepler, by Max Caspar, 1960 Aug. p. 173.

Howe, Mark DeWolfe. Review: The American Jury, by Harry Kalven, Jr., and Hans Zeisel, with the collaboration of Thomas Callahan and Philip Ennis, 1966 Sept. p. 295

Huxley, Julian S. Review: Life of the Past, by George Gaylord Simpson, 1953 Aug. p 88.

K

Kardiner, Abram. Reviews: Magic, Science and Religion, by Bronislaw Malinowski, 1948 June p. 58; Civilization on Trial, by Arnold Toynbee, 1948 Aug. p. 58.

Looks at East and West, by Hideki Yukawa. Translated by John Bester, 1973 July 117; Flint: Its Origin, Properties and Uses, by Walter Shepherd; Geographical Ecology: Patterns in the Distribution of Species, by Robert H. MacArthur, 1973 July p. 119; The Ecology of Stray Dogs: A Study of Free-Urban Animals, by Alan M. Beck, 1973 Aug. p. 115; Hypnosis: Research Developments and Perspectnes, edited by Erika Fromm and Ronald E. Shor; Life: The Unfinished Experiment, by S. E. Luria, 1973 Aug. p. 112; The Living Aris of Nigeria, edited by William Fagg. Illustrated by Michael Foreman. Photographs by Harri Peccinotti; Old Ways of Working Wood, by Alex W. Bealer, 1973 Aug. p. 113; Optical Production Technology, by D. F. Horne, 1973 Aug. p. 111; Are Quanta Real? A Galilean Dialogue, by J. M. Jauch; Orbital and Electron Density Diagrams: An Application of Computer Graphics, by Andrew Streitwieser, Jr., and Peter H. Owens, 1973 Sept. p. 191; Cristofano and the Plague: A Study in the History of Public Health in the Age of Galileo, by Carlo M. Cipolla, 1973 Sept. p. 192; The Tittus-Bode Law of Planetary Distances: Its History and Theory, by Michael Martin Nieto, 1973 Sept. p. 194; The Botany and Chemistry of Hallucinogens, by Richard Evans Schultes and Albert Hofmann; Hallucinogens and Shamanism, edited by Michael J. Harner; Neuropharmacology and Behavior, by V. G. Long, 1973 Oct. p. 129; Friction An Introduction to Tribiology, by Frank Philip Bowden and David Tabor, 1973 Oct. p. 128; Harry's Cosmeticology, Formerly the Principles and Practice of Modern Cosmetics, by Ralph G. Harry, revised by J B. Wilkinson, in cooperation with P. Alexander, E. Green, B. A. Scott and D. L. Wedderburn, Mars and the Mind of Man, by Ray Bradbury, Arthur C. Clarke, Bruce Murray, Carl Sagan and Walter Sullivan, 1973 Oct. p. 127; Electrostatics and Its Applications, edited by A. D Moore, 1973 Nov. p. 133; Flies and Disease, Volume I Ecology, Classification and Biotic Associations; Volume II Biology and Disease Transmission, by Bernard Greenberg. 1973 Nov. p 131, An Illustrated History of Brain Function, by Edwin Clarke and Kenneth Dewhurst, 1973 Nov p. 132; Boron, by A. G. Massey and J. Kane; Fibre Reinforcement, by J A Catherall; Lamp Phosphors, by H. L. Burrus, 1974 Jan p 125, Great Zimbabwe, by P. S. Garlake, 1974 Jan p 123. The Psychology of Anomalous Experience A Cogmine Approach, by Graham Reed, 1974 Jan. p 126, Contraception, edited by L L Langley; Geochronology Radiometric Dating of Rocks and Minerals, edited by C T Harper, Palaeoethnobotany The Prehistoric Food Plants of the Near East and Europe, by Jane M Renfrew, 1974 Feb p 119; Humboldt and the Cosmos, by Douglas Botting, 1974 Feb p 117, Paradise Lost The Decline of the Auto Industrial Age, by Emma Rothschild, 1974 Feb p 118, Africa Counts Number and Pattern in African Culture, by Claudia Zaslavsky, 1974 Mar p 120, The Architecture of War, Kenth Mallory and Arvid Ottar, 1974 Mar p 117. The Detection of Fish, by David Cushing, 1974 Mar p 119; The Settlement of Polynesia 1 Computer Simulation, by Michael Levison, R. Gerard Ward and John W. Webb, with the assistance of Trevor I. Fenner and W Alan Sentance, 1974 Mar. p. 118; Stereochemistry, by G. Natta and M. Farina.

Translated by A. Dempster, 1974 Mar. p. 122; A Handbook of Integer Sequences, by N. J. A. Sloane, 1974 Apr. p. 125; The Physiological Clock: Circadian Rhythms and Biological Chronometry, by Erwin Bunning; Stone: Properties, Durability in Man's Environment, by E. M. Winkler, 1974 Apr. p. 123; The Top: Universal Toy, Enduring Pastime, by D. W. Gould, 1974 Apr. p. 124; Agents of Bacterial Disease, by Albert S. Klainer and Irving Geis; The Blue-Green Algae, by G. E. Fogg, W. D. P. Stewart, P. Fay and A. E. Walsby, 1974 May p. 134; Chemicals from Petroleum: An Introductory Survey, by A. Lawrence Waddams, 1974 May p. 142; The Functions of Sleep, by Ernest L. Hartmann, 1974 May p. 133; The Nature and Art of Workmanship, by David Pye, 1974 May p. 137; Biology of Earthworms, by C. A. Edwards and J. R. Lofty, 1974 June p. 133; Communications Satellite Systems, Communications Satellite Technology, edited by P. L. Bargellini, 1974 June p. 130; Originality and Competition in Science: A Study of the British High Energy Physics Community, by Jerry Gaston; Social Straufication in Science, by Jonathan R. Cole and Stephen Cole; The Sociology of Science: Theoretical and Empirical Investigations, by Robert K. Merton. Edited and with an introduction by Norman W. Storer, 1974 June p. 129; Energy Crises in Perspective, by John C. Fisher, 1974 July p. 132; Legends of the Earth: Their Geologic Origins, by Dorothy B. Vitaliano, 1974 July p. 129; The Particle Atlas, Edition Two: An Encyclopedia of Techniques for Small Particle Identification, by Walter C. McCrone and John Gustav Delly, 1974 July 134; Patterns in Nature, by Peter S. Stevens, 1974 July p. 133; The Ascent of Man, by J. Bronowski, 1974 Aug. p. 111; Man-Made Crystals, by Joel E. Arem, 1974 Aug. p. 113; The Puzzle of Pain, by Ronald Melzack, 1974 Aug. p. 115; A Random Walk in Science, an anthology compiled by R. L. Weber. Edited by E. Mendoza; Two Cybernetic Frontiers, by Stewart Brand; A World of Strangers Order and Action in Urban Public Space, by Lyn H. Lofland, 1974 Aug. p. 112; Breathing: Physiology, Environment and Lung Disease, by Arend Bouhuys, 1974 Sept. p. 202; The Curve of Binding Energy, by John McPhee; Oilfields of the World Geology and Geography, by E. N. Tiratsoo, 1974 Sept. p. 201; Design of Racing Sports Cars, by Colin Campbell, 1974 Sept. p. 204; The Redshift Controversy, by George B. Field, Halton Arp and John N. Bahcall. 1974 Sept. p 206; Darwin on Man. A Psychological Study of Scientific Creativity, by Howard E. Gruber, together with Darwin's early and unpublished notebooks, transcribed and annotated by Paul H. Barrett, 1974 Oct. p. 138, The Light of the Night Sky, by F. E. Roach and Janet L. Gordon, 1974 Oct. p. 135; The Pyranuds, by Ahmed Fakhry; The Riddle of the Pyramids, by Kurt Mendelssohn, 1974 Oct p 136, Bridges The Spans of North America, by David Plowden, 1974 Nov. p. 143, The Coral Seas Wonders and Mysteries of Underwater Life, by Hans W. Fricke, The Explorations of Captain James Cook in the Pacific as Told by Selections of His Own Journals 1768-1779, edited by A. Grenfell Price Illustrated by Geoffrey C. Ingleton, The Great Barrier Reef, by Isobel Bennett, The Life of Captain James Cock, by J C Beaglehole, 1974 Nov. p 137; Insects in Flight A Glimpse Behind the Scenes in

Biophysical Research, by Werner Nachitgall. Translated by Harold Oldroyd, Roger H. Abbott and Marguerite Biederman-Thorson, 1974 Nov. p. 142; Planets, Stars and Nebulae Studies with Photopolarimetry, edited by T. Gehrels, 1974 Nov. p. 140; Schistosomiasis: The Evolution of a Medical Literature. Selected Abstracts and Citations, 1852-1972, by Kenneth S. Warren, 1974 Nov. p. 138; Pre-Columbian Cities, by Jorge E. Hardoy. Translated by Judith Thorne; Urbanization at Teotihuacán, Mexico, edited by René Millon, 1975 Jan. p. 130; Supership, by Noel Mostert, 1975 Jan. p. 127; Vegetation of the Earth, by Heinrich Walter. Translated by Joy Wieser, 1975 Jan. p. 132; American Building 2: The Environmental Forces that Shape It, by James Marston Fitch, 1975 Feb. p. 109; Encyclopedia of Minerals, by Willard Lincoln Roberts, George Robert Rapp, Jr., and Julius Weber; Water: A Primer, by Luna B. Leopold; Water: A View from Japan, text by Bernard Barber, photographs by Dana Levy, 1975 Feb. p. 111; Vacuum Manual, edited by L. Holland, W. Steckelmacher and J. Yarwood, 1975 Feb. p. 110; Arms and Strategy: The World Power Structure Today, by Laurence Martin, 1975 Mar. p. 125; Leprosy: Diagnosis and Management, by Harry L. Arnold, Jr., and Paul Fasal; A Plague of Corn: The Social History of Pellagra, by Daphne A. Roe, 1975 Mar. p. 126; On Ancient Central-Asian Tracks, by Sir Aurel Stein, 1975 Mar. p. 127; An Electron Micrographic Atlas of Viruses, by Robley C. Williams and Harold W. Fisher; The Mound People: Danish Bronze-Age Man Preserved, by P. V. Glob. Translated from the Danish by Joan Bulman, 1975 Apr. p. 143; Scott's Last Voyage through the Antarctic Camera of Herbert Ponting, edited by Ann Savours, 1975 Apr. p. 144; The Galactic Club Intelligent Life in Outer Space, by Ronald L. Bracewell; UFOs Explained, by Philip J. Klass, 1975 May p. 117; Gears from the Greeks: The Antiky thera Mechanism-A Calendar Computer from ca. 80 B.C., by Derek de Solla Price, 1975 May p. 118; Scientific Analysis on the Pocket Calculator, by John M. Smith, 1975 May p. 119; Climate: Present, Past and Future. Volume 1: Fundamentals and Climate Now, by H. H. Lamb; The Weather Machine, by Nigel Calder, 1975 June p. 124; Concepts and Mechanisms of Perception, by R. L. Gregory; Illusion in Nature and Art, edited by R. L. Gregory and E. H. Gombrich; Vision-Human and Electronic, by Albert Rose, 1975 June p. 123; Handbook on Human Nutritional Requirements, by R. Passmore, D. L. Bocobo, B. M. Nicol and M. Narayana Rao in collaboration with G. H. Beaton and E. M. DeMaeyer; Recommended Dietary Allowances, by National Academy of Sciences, 1975 June p. 125; East African Mammals: An Atlas of Evolution in Africa. Volume II. Part A (Insectivores and Bats), Volume II, Part B (Hares and Rodents), by Jonathan Kingdon; Mammals of the World, by Ernest P. Walker and associates, 1975 July p. 128; Brassey's Infantry Weapons of the World:, 1975, edited by J. I. H. Owen; The Physics of Time Asymmetry, by P. C. W. Davies, 1975 Aug. p. 124; Cons, Pigs, Wars and Witches. The Ruddles of Culture, by Marvin Harris; Pest Control. A Survey, by Arthur Woods, 1975 Aug. p. 126; The Religion of Isuac Newton, by Frank E. Manuel, 1975 Aug. p. 123; Children

Kaul; Prepare Now for a Metric Future, by Frank Donovan; Science in France in the Revolutionary Era, Described by Thomas Bugge, edited by Maurice P. Crosland; The Metric System: A Critical Study of Its Principles and Practice, by Maurice Danloux-Dumesnils. Translated from the French by Anne Garrett and J. S. Rowlinson, 1971 Jan. p. 118; Behind Appearance: A Study of the Relations Between Painting and the Natural Sciences in this Century, by C. H. Waddington, 1971 Feb. p. 126; The Lunar Rocks, by Brian Mason and William G. Melson; The Moon as Viewed by Lunar Orbiter, by L. J. Kosofsky and Farouk El-Baz, Soviet Rocketry: Past, Present, and Future, by Michael Storko, 1971 Feb. p. 125; The Biology of Twinning in Man, by M. G. Bulmer, 1971 Feb. p. 127; Batteries and Energy Systems, by Charles L. Mantell, 1971 Mar. p. 120; Kangaroos, by H. J. Frith and J. H. Calaby; Sudden Infant Death Syndrome, edited by Abraham B. Bergman, J. Bruce Beckwith and C. George Ray, 1971 Mar. p. 118; Zeno's Paradoxes, edited by Wesley C. Salmon, 1971 Mar. p. 122; A History of Poliomyelitis, by John R. Paul, 1971 Apr. p. 125; Origin of Eukaryouc Cells, by Lynn Margulis, 1971 May p. 128; Physics and Beyond: Encounters and Conversations, by Werner Heisenberg. Translated from the German by Arnold J. Pomerans, 1971 May p. 127; The Mind of Man, by Nigel Calder, 1971 May p. 129, The Gift Relationship: From Human Blood to Social Policy, by Richard M. Titmuss, 1971 June p. 131; Impact of New Technologies on the Arms Race, edited by B. T. Feld, T. Greenwood, G. W. Rathjens and S. Weinberg; Understanding Doomsday: A Guide to the Arms Race for Hawks, Doves and People, by Thomas Gordon Plate, 1971 June p. 132; Asymmetric Organic Reactions, by James D. Morrison and Harry S. Mosher, 1971 July p. 119; Nobel Symposium 12: Radiocarbon Variations and Absolute Chronology, edited by Ingrid U. Olsson; Scientific Methods in Medieval Archaeology, edited by Rainer Berger; The Impact of the Natural Sciences on Archaeology: A Joint Symposium of the Royal Society and the British Academy, edited by T. E. Allibone, F. R. S., et al., 1971 July p. 117; The Global Circulation of the Atmosphere, edited by G. A. Corby, 1971 July p. 118; The Origins of Feedback Control, by Otto Mayr, 1971 July p. 120; Annual Report, 1970, by the Center for Short-Lived Phenomena, 1971 Aug. p. 116; Race to Oblivion: A Participant's View of the Arms Race, by Herbert York; Secret Sentries in Space, by Philip J. Klass, 1971 Sept. p. 229; The Botany and Chemistry of Cannabis, edited by C. R. B. Joyce and S. H. Curry, 1971 Sept. p. 238; The Natural History of the African Elephant, by Sylvia K Sikes, 1971 Oct. p. 115; The Dying Patient, by Orville G. Brim, Jr., Howard E. Freeman, Sol Levine and Norman A. Scotch; The Splendor of Iridescence: Structural Colors in the Animal World, by Hilda Simon, 1971 Nov. p. 129; The Scientific Papers of Sir Geoffrey Ingram Taylor Volume IV, Mechanics of Fluids: Miscellaneous Papers, edited by G. K. Batchelor, 1971 Nov. p. 130; The Discovery of Our Galaxy, by Charles A. Whitney; The Face of the Deep, by Bruce C. Heezen and Charles D. Hollister; An Original Theory or New Hypothesis of the Universe, 1750, by Thomas Wright of Durham, 1972 Feb. p. 113; East

African Mammals: An Atlas of Evolution in Africa, Volume I, by Jonathan Kingdon, 1972 Feb. p. 114; Animals of the Arctic: The Ecology of the Far North, by Bernard Stonehouse, 1972 Mar. p. 123; The European Discovery of America: The Northern Voyages A.D. 500-1600, by Samuel Eliot Morison, 1972 Mar. p. 122; Precision Measurements and Fundamental Constants: Proceedings of the International Conference of the National Bureau of Standards, 1970, edited by D. N. Langenberg and B. N. Taylor, 1972 Mar. p. 121; Shapes, Space, and Symmetry, by Alan Holden, with photographs by Doug Kendall, 1972 Mar. p. 124. The Age of Mammals, by Bjorn Kurten; Not from the Apes, by Bjorn Kurten, 1972 Apr. p. 115; Airborne Camera: The World from the Air and Outer Space, by Beaumont Newhall; The from Space: Photographic Exploration of the Planets, by Merton E. Davies and Bruce C. Murray, 1972 Apr. p. 113; The Ethereal Aether: A History of the Michelson-Morley-Miller Aether-Drift Experiments, 1880-1930, by Loyd S. Swenson, Jr.,; Selected Writings of Hermann von Helmholtz, edited, with an introduction, by Russell Kahl, 1972 Apr. p. 114; Fingerprint Techniques, by Andre A. Moenssens, 1972 Apr. p. 116; China, by Yi-Fu Tuan; The Prehistory of China An Archaeological Exploration, by Judith M. Treistman, 1972 May p. 132; The Design of Inquiring Systems, Basic Concepts of Systems and Organization, by C. West Churchman; Science Growth and Change, by Henry W. Menard, 1972 May p. 128; Modern Analytical Chemistry, by W F Pickering, 1972 May p. 134; Mosquitos, by J D. Gillett, 1972 May p. 130; The Air War in Indochina, edited by Raphael Littauer and Norman Uphoff, 1972 June p 131; Christo, by David Bourdon, 1972 June p. 133, Inadvertent Climate Modification (Report of the Study of Man's Impact on Climate), 1972 June p. 134; Introduction to Newton's "Principia", by I. Bernard Cohen, Philosophiac Naturalis Principia Mathematica Volume I and Volume II, edited by Alexandre Koyrė and I. Bernard Cohen, 1972 June p. 132; Molecular Reality A Perspective on the Scientific Work of Jean Perrin, by Mary Jo Nye; Symmetry A Stereoscopic Guide for Chemists, by Ivan Bernal, Walter C Hamilton and John S Ricci, 1972 July p 118; Restless Earth A Report on the New Geology, by Nigel Calder, 1972 July p. 120; The Roots of Civilization The Cognitive Beginnings of Man's First Art, Symbol and Notation, by Alexander Marshack, 1972 July p 117, Think Tanks, by Paul Dickson, 1972 July p 119, Foundations of Cyclopean Perception, by Bela Julesz; Optics, Painting & Photography, by M H Pirenne, 1972 Aug p 118; Jane's Surface Skimmers Hovercraft and Hydrofoils, 1971 72, edited by Roy McLeavy; Land Speed Record, by Cyril Posthumus, 1972 Aug p 120, McBurney's Point The Story of Appendicitis, by Stewart M. Brooks, 1972 Aug. p. 122, Dating Techniques for the Archaeologist, edited by Henry N Michael and Elizabeth K Ralph; Principles and Applications of Paleomagnetism, by D. H. Tarling, 1972 Sept p. 198; Famine A Symposium Dealing with Nutrition and Relief Operations in Times of Disaster, edited for the Swedish Nutrition Foundation and the Swedish International Development Authority by Gunnar Blix, Yngve Hofvander and Bo Vahlquist, 1972

Sept. p. 194; The Insect Societies, by Edward O. Wilson, 1972 Sept. p. 193; The Science of Yachts, Wind & Water, by H. F. Kay, 1972 Sept. p. 204; Europe's First Monumental Sculpture: New Discoveries at Lepenski Vir, by Dragoslav Srejović. Translated from the Serbo-Croat by Lovett F. Edwards; How Animals Work, by Knut Schmidt-Nielsen, 1972 Oct. p. 122; Passion to Know The World's Scientists, by Mitchell Wilson, 1972 Oct. p. 121; Sweet and Dangerous, by John Yudkin; Sweetness and Sweeteners, edited by G. G. Birch, L. F. Green and C. B. Coulson, 1972 Oct. p. 126; Animals in the Service of Man, by Edward Hyams; Plants in the Service of Man 10,000 Years of Domestication, by Edward Hyams; A West African Cook Book, Ellen Gibson Wilson, 1972 Nov. p. 129, Artificial Cells, by Thomas Ming Swi Chang, 1972 Nov. p. 128; The Desert Locust, by Stanley Baron, 1972 Nov. p. 127; Archaeology under Water, by George F. Bass; Underwater Science. An Introduction to Experiments by Divers, edited by J. D Woods and J. N. Lythgoe, 1973 Jan. p. 124; Astronomy and Astrophysics for the, 1970's, Volume 1. Report of the Astronomy Survey Committee, The Legacy of George Ellery Hale: Evolution of Astronomy and Scientific Institutions, in Pictures and Documents, edited by Helen Wright, Joan N. Warnow and Charles Weiner, 1973 Jan p. 123; Neuropoisons. Their Pathophysiological Actions Volume 1: Poisons of Animal Origin, edited by Lance L. Simpson. 1973 Jan p 125, The Mammalian Cell as a Microorgamsm Genetic and Biochemical Studies in Vitro, by Theodore T Puck, 1973 Feb. p 120, The Occult Sciences in the Renaissance A Study in Intellectual Patterns, by Wayne Shumaker, 1973 Feb. p. 121: Albert Einstein Creator and Rebel, by Banesh Hoffmann, with the collaboration of Helen Dukas, 1973 Mar p 122, The Computer from Pascal to son Neumann, by Herman H Goldstine, A Computer Perspective, by the office of Charles and Ray Eames, 1973 Mar 121, A Commentary on the Dresden Codes A Maya Hieroglyphic Book, by J Eric S Thompson, A Navigator's Universe The Libro de Cosmographia of 1538, by Pedro de Medina Translated and with an introduction by Ursula Lamb, 1973 Mar p 124, The Complete Naturalist A Life of Linnaeus, by Wilfrid Blunt, with the assistance of William T Stearn, 1973 Apr p 119, Glacial and Quaternary Geology, by Richard Foster Flint. Glacier Ice, by Austin Post and Edward R LaChapelle, 1973 Apr p 120, Clouds of the World A Complete Color Encyclopedia, by Richard Scorer, Serengett A Kingdom of Predators, by George B Schaller, The Spotted Hyena A Study of Predation and Social Behavior, by Hans Kruuk, 1973 May p 116. Thirteen The Flight That Failed, by Henry S F Cooper, Jr., 1973 May p. 115, Blepharisma The Biology of a Light Sensitive Protozoan, by Arthur C Giese, with the collaboration of Shōichirō Suzuki, Robert A. Jenkins, Henry I. Hirshfield, Irwin R. Isquith and Ann M DiLotenzo, 1973 June p. 117, Tropical Crips Monocotyledons I and 2, by J. W. Purseglove 1973 June p. 118, Aspects of Quantum Theory edited by Abdus Salam and E. P. Wigner. The Collected Works of Lo Szilard Scientific Papers, edited by Bernard T Feld and Gertrud Weiss Sizlard with Kathleen R Winsot, Creativity and Intuition A Physicist

Introduction to the Corpus, by Ian Graham; Corpus of Maya Hieroglyphic Inscriptions, Volume 2: Part 1, by Ian Graham and Eric von Euw, 1977 Sept. p. 46; The First Three Minutes: A Modern View of the Origin of the Universe, by Steven Weinberg; The Red Limit: The Search for the Edge of the Universe, by Timothy Ferris; Roman Roads, by Raymond Chevallier. Translated by N. H. Field, 1977 Sept. p. 52; Mammalian Chimaeras, by Ann McLaren, F. R. S.; Regeneration, by Priscilla Mattson, 1977 Sept. p. 57; Archaeology by Experiment, by John Coles; Sounds from Silence: Recent Discoveries in Ancient Near Eastern Music, by Anne Draffkorn Kilmer, Richard L. Crocker and Robert R. Brown, 1977 Oct. p. 28; Computer Security and Protection Structures, by Bruce J. Walker and Ian F. Blake; Crime by Computer, by Donn B. Parker, 1977 Oct. p. 26; To Be an Invalid: The Illness of Charles Darwin, by Ralph Colp, Jr., 1977 Oct. p. 30; Correspondence Pinciple and Growth of Science, by Wladyslaw Krajewski; Insights from the Blind: Comparative Studies of Blind and Sighted Infants, by Selma Fraiberg, with the collaboration of Louis Fraiberg, 1977 Nov. p. 32; Handbook of Adhesives, edited by Irving Skeist, 1977 Nov. p. 37; Perpetual Motion: The History of an Obsession, by Arthur W. J. G. Ord-Hume, 1977 Nov. p. 30; Stones, Bones and Skin: Ritual and Shamanic Art, edited by Anne Trueblood Brodzky, Rose Danesewich and Nick Johnson, 1977 Nov. p. 31; The Historical Supernovae, by David H. Clark and F. Richard Stephenson; The Science and Ethics of Equality, by David Hawkins, 1978 Jan. p. 28; The Tuning of the World, by R. Murray Schafer, 1978 Jan. p. 29; The Articulate Mammal: An Introduction to Psycholinguistics, by Jean Aitchison; Key Problems of Physics and Astrophysics, by V. L. Ginzburg. Translated from the Russian by Oleg Glebov, 1978 Feb. p. 44; Ecology and Behaviour of Nocturnal Primates: Prosimians of Equatorial West Africa, by Pierre Charles-Dominique. Translated by R. D. Martin, 1978 Feb. p. 40; Food in Chinese Culture: Anthropological and Historical Perspectives, edited by K. C. Chang; The Solar Output and Its Variation, edited by Oran R. White, 1978 Feb. p. 34; Arachnida, by Theodore Savory, 1978 Mar. p. 36; Copper: Its Geology and Economics, by Robert Bowen and Ananda Gunatilaka, 1978 Mar. p. 41; Diving Medicine, edited by Richard H. Strauss; Natural Man: The Life of William Beebe, by Robert Henry Welker; Submersibles and Their Use in Occangraphy and Ocean Engineering, edited by Richard A. Geyer, 1978 Mar. p. 30; Harvest of the Palm: Ecological Change in Eastern Indonesia, by James J. Fox, 1978 Mar. p. 33; Mechanics and Energetics of Animal Locomotion, edited by R. McN. Alexander and G. Goldspink; Pedal Power: In Work, Leisure, and Transportation, edited by James C. McCullagh, 1978 Apr. p. 34; Mimbres Painted Pottery, by J. J. Brody, 1978 Apr. p. 36; Non-Invasive Clinical Measurement, edited by David Taylor and Joan Whamond, 1978 Apr. p. 37; Scientists under Hitler: Politics and the Physics Community in the Third Reich, by Alan D. Beyerchen, 1978 May p. 33; Health and Disease in Tribal Societies. Ciba Foundation Symposium 49 (new series). 1978 May p. 38; Scientific Results of the Viking Project, reprinted from Journal of Geophysical Research, September 30, 1977;

The Steam Engine of Thomas Newcomen, by L. T. C. Rolt and J. S. Allen, 1978 May p. 37; Aquaculture in Southeast Asia: A Historical

Overview.

by Shao-Wen Ling; Indian Fishing: Early Methods on the Northwest Coast, by Hilary Stewart; The Invention of the Telescope: Transactions of the American Philosophical Society, by Albert Van Helden, 1978 June p. 30; The Distribution and Diversity of Soil Fauna, by John A. Wallwork, 1978 June p. 36; Ultrashort Light Pulses: Picosecond Techniques and Applications, edited by S. L. Shapiro, 1978 June p. 35.

Morrison, Philip and Phylis. Children's Books, 1966 Dec. p. 141;, 1967 Dec. p. 140;, 1968 Dec. p. 126;, 1969 Dec. p. 136;, 1970 Dec. p. 122; 1971 Dec. p. 106; 1972 Dec. p. 112; 1973 Dec. p. 131;, 1974 Dec. p. 144;, 1975 Dec. p. 127;, 1976 Dec. p. 134;, 1977 Dec.

Nagel, Ernest. Reviews: The Rise of Scientific Philosophy, by Hans Reichenbach, 1951 May 70; Galileo's Dialogue on the Great World Systems, edited by Giorgio de Santillana, 1953 Oct. p. 104; A Study of Thinking, by Jerome S. Bruner, Jacqueline J. Goodnow and George A. Austin, 1957 June p. 153; Probability and Scientific Inference, by G. Spencer Brown, 1957 Dec. p. 155; A History of Mathematics, by J. F. Scott, 1958 Oct. p. 141; Collected Papers of Charles Sanders Peirce: Vol. VII, Science and Philosophy; Vol. VIII, Reviews, Correspondence and Bibliography, edited by Arthur W. Burks, 1959 Apr. p. 185; The Dreams of Reason: Science and Utopias, by René Dubos, 1961 Nov. p. 189; Understanding Physics Today, by W. H. Watson, 1963 Oct. p. 145; Hegel: Reinterpretation, Texts, and Commentary, by Walter Kaufmann, 1965 Nov. p. 133.

Newman, James R. Reviews: Newton's Tercentenary Celebration, 1948 July p. 56; Makers of Mathematics, by Alfred Hooper; Mathematics, Our Great Heritage, edited by William Schaaf, 1948 Nov. p. 56; Education in a Divided World, by James B. Conant; Voyages to the Moon, by Marjorie Hope Nicolson, 1948 Dec. p. 54; The Autobiography of Benjamin Rush, edited by George W. Corner, 1949 Jan. p. 56; No Place to Hide, by David Bradley, 1949 Jan. p. 59; Insight and Outlook, by Arthur Koestler, 1949 Mar. p. 56; Peace or Pestilence, by Theodor Rosebury, 1949 June p. 56; Goethe on Nature and Science, by Sir Charles Sherrington, 1949 Sept. p. 56; The Story of Maps, by Lloyd A. Brown, 1949 Oct. p. 56; Heredity, East and West: Mendel Versus Lysenko, by Julian Huxley, 1949 Nov. p. 54; Children's Books, 1949 Dec. p. 52; Francis Bacon, by Benjamin Farrington, 1950 Mar. p. 56; Jane's Fighting Ships, 1949-50, edited by Francis McMurtrie; All the World's Aircraft, 1949-50, edited by Leonard Bridgman, 1950 Apr. p. 62; The Origins of Modern Science, by Herbert Butterfield, 1950 July p. 56; Science and English Poetry, by Douglas Bush, 1950 Aug. p. 56; The Popularization of Science, 1950 Sept. p. 97; Economic Aspects of Atomic Power: An Exploratory Study, under the direction of Sam H. Schurr and Jacob

Marschak, 1950 Oct. p. 57; Mathematical Snapshots, by Hugo Steinhaus, 1950 Nov. p. 56; The Life of John Maynard Keynes, by R. F. Harrod, 1951 Apr. p. 71; The Flight of Thunderbolts, by B. F. J. Schonland, 1951 June p. 71; Children's Books, 1951 Dec. p. 72; Gods, Graves and Scholars: The Story of Archaeology, by C. W. Ceram, 1952 Jan. p. 74; Parasitic Animals, by Geoffrey Lapage, 1952 Feb. p. 77; Doubt and Certainty in Science, by J. Z. Young, 1952 Mar. p. 75; Books on Nature, 1952 June p. 83; The Next Million Years, by Charles Galton Darwin, 1952 Sept. p. 165; A Study of Writing, by I. J. Gelb, 1952 Oct. p. 85; Children's Books, 1952 Dec. p. 78; Our World from the Air, by E. A. Gutkind, 1953 Mar. p. 96; Cardano, the Gambling Scholar, by Oystein Ore, 1953 June p. 105; The Comets and Their Origins, by R. A. Lyttleton, 1953 July 88; The Life and Work of Sigmund Freud, Vol. 1, 1856-1890, by Ernest Jones, 1953 Nov. p. 101; Children's Books, 1953 Dec. p. 100; Mathematics in Western Culture, by Morris Kline, 1954 Feb. 92; The Papers of Wilbur and Orville Wright, edited by Marvin W. McFarland, 1954 May 88; Saipan, by Alexander Spoehr, 1954 June p. 90; Nature and the Greeks, by Erwin Schrödinger, 1954 July p. 84; Science and Civilization in China, by Joseph Needham, 1954 Oct. p. 86; Children's Books, 1954 Dec. p. 100; The Life of John Stuart Mill, by Michael St. John Packe, 1955 Feb. p. 108; A History of Technology, edited by Charles Singer, E. J. Holmyard and A. R. Hall, 1955 May p. 108; The New Men, by C. P. Snow; The Accident, by Dexter Masters; The Hound of Earth, by Vance Bourjaily, 1955 July p. 96; The Foreseeable Future, by Sir George Thomson, 1955 Nov. p. 111; Children's Books, 1955 Dec. p. 112; The Age of Analysis, edited by Morton White, 1956 Feb. p. 119; The History of Photography, by Helmut and Alison Gernsheim, 1956 May p. 133; Atom Harvest, by Leonard Bertin, 1956 June p. 141; The Pursuit of Science in Revolutionary America, by Brooke Hindle, 1956 Oct. p. 141; Children's Books, 1956 Dec. p. 140; Faster, Faster, by W. J. Eckert and Rebecca Jones, 1957 Jan. p. 125; Determinism and Indeterminism in Modern Physics, by Ernst Cassirer, 1957 Mar. p. 147; Portraits from Memory and Other Essays, by Bertrand Russell, 1957 Apr. p. 153; The Lisbon Earthquake, by T. D. Kendrick, 1957 July p. 164; The Copernican Revolution, by Thomas S. Kuhn; From the Closed World to the Infinite Universe, by Alexandre Koyrė; Discoveries and Opinions of Galileo, translation and introduction by Stillman Drake, 1957 Oct. p. 155; A History of Education in Antiquity, by H. I. Marrou, 1957 Nov. p. 165; Children's Books, 1957 Dec. p. 162; Causaluy and Chance, by David Bohm, 1958 Jan. p. 111: Paths to Peace: A Study of War, Its Causes and Prevention, edited by Victor H. Wallace, 1958 Mar. p. 145; Reason and Chance in Scientific Discovery, by R. Taton, 1958 Apr. p. 141; Arthur Stanley Eddington, by A. Vibert Douglas, 1958 July 116; Children's Books, 1958 Dec. p. 149; Abortion in the United States, edited by Mary Steichen Calderone, 1959 Jan. p. 149; The Causes of World War Three, by C. Wright Mills: Inspection for Disarmament, edited by Seymour Melman; No More War! by Linus Pauling; Peace or Atomic War? by Albert Schweitzer, 1959 Feb.

of Six Cultures: A Psycho-Cultural Analysis, by Beatrice B. Whiting and John W. M. Whiting in collaboration with Richard Longabaugh, 1975 Sept. p. 190; The National Atlas of the United States of America, United States Department of the Interior, 1975 Sept. p. 192; The Nature of the Strattgraphical Record, by Derek V. Ager; Recent Earth History, by Claudio Vita-Finzi, 1975 Sept. p. 194B; The Tallest Tower: Eiffel and the Belle Epoque, by Joseph Harriss, 1975 Sept. p. 196; Francis Place and the Early History of the Greenwich Observatory, by Derek Howse; The International Bureau of Weights and Measures 1875-1975, by Chester H. Page and Paul Vigoureux, 1975 Oct. p. 132; Ultrasonic Communication by Animals, by Gillian Sales and David Pye, 1975 Oct. p. 134; Infrared Detectors, edited by Richard D. Hudson, Jr., and Jacqueline Wordsworth Hudson, 1975 Nov. p. 139; Les Objets Fractals: Forme, Hasard et Dimension, by Benoît Mandelbrot, 1975 Nov. p. 143; The Path of the Double Helix, by Robert Olby, 1975 Nov. p. 136; Dividing, Ruling and Mask-making, by D. F. Horne, 1976 Jan. p. 130; Geological Hazards: Earthquakes-Tsunamus-Volcanoes-Avalanches-Landshdes-Floods, by B. A. Bolt, W. L. Horn, G. A. Macdonald and R. F. Scott; Physical Aspects of Natural Catastrophes, by Adrian E. Scheidegger, 1976 Jan. p. 134; Gypsies: The Hidden Americans, by Anne Sutherland; Gypsy on 18 Wheels: A Trucker's Tale, by Robert Krueger, 1976 Jan. p. 131; Butterflies, by Thomas C. Emmel; The Dictionary of Butterflies and Moths in Color, by Allan Watson and Paul E. S. Whalley, with an introduction by W. Donald Duckworth, 1976 Feb. p. 136; The Camel and the Wheel, by Richard W. Bulliet; The Wheelwright's Shop, by George Sturt, 1976 Feb. p. 135; The Magic of Uri Geller, by The Amazing Randi; My Story, by Uri Geller; Superminds, by John Taylor: Uri. A Journal of the Mystery of Uri Geller, by Andrija Puharich, 1976 Feb. p. 134; Archaeoastronomy in Pre-Columbian America, edited by Antony F Aveni; The Codex Nuttall: A Picture Manuscript from Ancient Mexico, edited by Zelia Nuttall, with an introduction by Arthur G. Miller, 1976 Mar p. 126; Atlas of Optical Transforms, by G. Harburn, C. A. Taylor and T. R. Welberry, 1976 Mar. p. 128; Models of Madness, Models of Medicine, by Miriam Siegler and Humphry Osmond, 1976 Mar p 127; The Emergence of Probability A Philosophical Study of Early Ideas about Probability, Induction and Statistical Inference, by Ian Hacking, 1976 Apr. p. 133; Honey A Comprehensive Survey, edited by Eva Crane, 1976 Apr p 132. Structural Materials in Animals, by C. H. Brown, 1976 Apr p. 134; James Clerk Maxwell Physicist and Natural Philosopher, by C. W. F. Eventt, 1976 May p. 127; Nuclear Tracks in Solids Principles & Applications, by Robert L. Fleischer, P. Buford Price and Robert M Walker, 1976 May p. 124 Oceanography and Seamanship, by William G. van Dom, 1976 May p 130; The Structures of the Elements, by Jerry Donohue, 1976 May p. 126; Engineering Progress through Trouble, selected and edited by R. R. Whyte, 1976 June p. 130; The Healing Hand: Man and Wound in the Ancient World, by Guido Majno, 1976 June p. 126; Mites of Moths and Butterflies, by Asher E. Treat, 1976 June p. 127; Muybridge: Man in Motion, by Robert

Bartlett Haas, 1976 June p. 128; Growth Rhythms and the History of the Earth's Rotation, edited by G. D. Rosenberg and S. K. Runcorn, 1976 July p. 137; Handling of the Big Jets, by D. P. Davies, 1976 July p. 134; Thinkers and Tinkers: Early American Men of Science, by Silvio A. Bedini; World Armaments and Disarmament: SIPRI Yearbook, 1975, Stockholm International Peace Research Institute, 1976 July p. 132; Work and Play: Ideas and Experience of Work and Leisure, by Alasdair Clayre, 1976 July p. 135; Black Holes, Quasars, and the Universe, by Harry L. Shipman, 1976 Aug. p. 112; Energy Transformation in Biological Systems. Ciba Foundation Symposium 31. In Tribute to Fritz Lipmann on His 75th Birthday, 1976 Aug. p. 111; The Foundations of Newton's Alchemy, or "The Hunting of the Greene Lyon," by Betty Jo Teeter-Dobbs, 1976 Aug. p. 113; Snack Food Technology, by Samuel A. Matz, 1976 Aug. p. 110; The Complete Book of Fruits and Vegetables, by Francesco Bianchini and Francesco Corbetta. Paintings in color by Marilena Pistoia. Translated from the Italian by Italia and Alberto Manicelli; Crops and Man, by Jack R. Harlan, 1976 Sept. p. 212; Human Origins: Louis Leakey and the East African Evidence, edited by Glynn Ll. Isaac and Elizabeth R. McCown; Leakey's Luck The Life of Louis Seymour Bazett Leakey, 1903-1972, by Sonia Cole, 1976 Sept. p. 216; Persons at High Risk of Cancer An Approach to Cancer Ettology and Control, edited by Joseph F. Fraumeni, Jr., 1976 Sept. p. 213; Abyssal Environment and Ecology of the World Oceans, by Robert J. Menzies, Robert Y. George and Gilbert T. Rowe, 1976 Oct p. 142; Patrick Maynard Stuart Blackett, Baron Blackett of Chelsea: A Biographical Memoir, by Sir Bernard Lovell, 1976 Oct. p. 138; Folktales Told around the World, edited by Richard M Dorson, 1976 Oct. p. 139; The Hohokam Desert Farmers & Craftsmen (Excavations at Snaketown, 1964-1965,) by Emil W Haury, 1976 Oct. p 140; Authenticity in Art The Scientific Detection of Forgery, by Stuart J Fleming, 1976 Nov. p. 146; Epidemic and Peace 1918, Alfred W Crosby, Jr., 1976 Nov. p 138; A Treatise on Limnology Vol 1, Part 1, Geography and Physics of Lakes, Part 2, Chemistry of Lakes, Vol. II, Introduction to Lake Biology and the Limnoplankton; Vol III, Limnological Botany, by G. Evelyn Hutchinson, 1976 Nov p. 141; The Hungry Fly A Physiological Study of the Behavior Associated with Feeding, by V G Dethier, 1977 Jan p 122; Merchant Ship Types, by R Munro-Smith, 1977 Jan. p 126, The Wild Boy of Aveyron, by Harlan Lane, 1977 Jan p. 124; The Bowels of the Earth, by John Elder, 1977 Feb. 133; Mechanical Design in Organisms, by S A. Wainwright, W D Biggs, J D. Currey and J. M. Gosline, 1977 Feb. p. 132; The Mycenaean World, by John Chadwick; The Various and Ingenious Machines of Agostino Ramelli (1588), translated from the Italian and the French, by Martha Teach Gnudi. Technical annotiation and a pictorial glossary by Eugene S Ferguson, 1977 Feb. p. 128; Berggasse 19 Sigmund Freud's Home and Offices, Vienna 1938, the Photographs of Edmund Engelman, with an introduction by Peter Gay and captions by Rita Ransohoff; Birds of the West Coast, paintings, drawings and text by J. F. Lansdowne; Weeds in Winter, written and

illustrated by Lauren Brown; The World You Never See: Underwater Life, written and photographed by Peter Parks, 1977 Mar. p. 142; Biomechanics and Energetics of Muscular Exercise, by Rodolfo Margana, 1977 Mar. p. 147; The Nature of Maps Essays Toward Understanding Maps and Mapping, by Arthur H. Robinson and Barbara Bartz Petchenik, 1977 Mar. p. 144; Anumal Asymmetry, by A. C. Neville; The Psychology of Left and Right, by Michael C. Corballis and Ivan L. Beale, 1977 Apr. p. 142; The Hubble Atlas of the Galaxies, compiled by Allan Sandage; Man Discovers Galaxies, by Richard Berendzen, Richard Hart and Daniel Seeley; Second Reference Catalogue of Bright Galaxies, by Gerard de Vaucouleurs, Antoinette de Vaucouleurs and Harold G. Corwin, Jr.; U.S Observatories. A Directory and Travel Guide, by H. T. Kirby-Smith, 1977 Apr. p. 140; The Works of Isambard Kingdom Brunel: An Engineering Appreciation, edited by Sir Alfred Pugsley, 1977 Apr. p. 144; The Carnivourous Plants, by Francis Ernest Lloyd; Carnivourous Plants of the United States and Canada, by Donald E. Schnell, 1977 May p. 143; The Game of Disarmament: How the United States and Russia Run the Arms Race, by Alva Myrdal, 1977 May p. 139; Slow Virus Diseases of Animals and Man, edited by R. H Kimberlin; Slow Viruses, by David H. Adams and Thomas M. Bell, 1977 May p. 140, Whistled Languages, by R. G. Busnel and A Classe, 1977 May p. 141; Adventure of a Mathematician, by S. M. Ulam, All Their Own People and the Places They Build, by Jan Wampler; External Construction by Animals, edited by Nicholas E. Collias and Elsie C. Collias, 1977 June p. 136; The American Farm A Photographic History, by Maisie Conrat and Richard Conrat; Whereby We Thrive A History of American Farming, 1607-1972, by John T. Schlebecker, 1977 June p 140; Grand Design. The Earth from Above, by Georg Gerster; Remote Sensing of Environment, edited by Joseph Lintz, Jr., and David S Simonett, 1977 June p. 138; Early Hydraulic Civilization in Egypt A Study in Cultural Ecology, by Karl W Butzer; Island of Isis Philae, Temple of the Nile, by William MacQuitty, 1977 July p. 151; Fanune and Human Development The Dutch Hunger Winter of 1944/45, by Zena Stein, Mervyn Susser, Gerhard Saenger and Francis Morolla, The Last Great Subsistence Crisis in the Western World, by John D Post, 1977 July p 148; The Magic Mirror of M C Escher, by Bruno Ernst; The Renaissance Rediscovery of Linear Perspective, by Samuel Y Edgerton. Jr., 1977 July p. 146, The New World Primates Adaptive Radiation and the Evolution of Social Behavior, Languages, and Intelligence, by Martin Moynihan, 1977 July p 152, Everything in Its Path Destruction of Community in the Buffalo Creek Flood, by Kai T Erikson, 1977 Aug. p 135, History of Antarctic Exploration and Scientific Investigation, Antarctic Map Folio Series, Folio 19, edited by Vivian C. Bushnell, Mission to Earth Landsat Views the World, by Nicholas M Short, Paul D Lowman, Jr., Stanley C Freden and William A Finch, Jr , Plato's Universe, by Gregory Vlastos, 1977 Aug. p 132, Isotope Separation, by Stelio Villani, 1977 Aug. p. 136; The Book of a Thousand Tongues, edited by Eugene A. Nida, Corpus of Maya Hieroglyphic Inscription, Volume I

SCIENTIFIC AMERICAN

Index to Mathematical Games

A

Abacus, 1970 Jan. p. 124. Abacus, Napier's, 1973 Apr. p. 106. Acrostics, 1967 Jan. p. 118. Acrostics, double (poems), 1967 Sept. p. 268. Algebraic identities, diagrams of, 1973 Oct. Amazon game, 1978 Feb. p. 19. Amicable numbers, 1968 Mar. p. 121. Anamorphic art, 1975 Jan. p. 110. Apollinax, Bertrand: mathematical paradoxes, 1961 May p. 162. April Fool hoaxes, 1975 Apr. p. 126; 1975 July p. 112. Aristotle's wheel, paradox of, 1970 Sept. p. 210. Astroid curve, 1970 Sept. p. 210. Austin's dog, problem of, 1971 Dec. p. 96. Automata theory, cellular, 1970 Oct. p. 120; 1971 Feb. p. 112. Automorphic numbers, 1968 Jan. p. 124.

E

Baker's card solitaire, 1968 June p. 112. Beaded ring problems, 1961 Aug. p. 134; 1969 Jan. p. 116. Beck's hex, game of, 1975 June p. 106; 1975 Dec. p. 116. Bell numbers, 1976 June p. 120; 1978 May p. 24. Berrocal, Miguel, puzzle sculpture of, 1978 Jan. p 14 Bertrand's circle-and-chord paradox, 1957 Apr. p. 166. Bible, numerology of, 1975 Sept. p. 174. Binary notation, 1957 May p. 150; 1958 Feb. p 104, 1960 Dec. p. 160; 1962 Aug. p. 120; 1972 Aug. p. 106, 1974 Jan. p. 108. Biorhythm, 1966 July p. 108. Birthday paradox, 1957 Apr. p. 166. Bisection problems, 1977 July p. 132. Black, board game, 1963 Oct. p. 124. Black holes, 1976 May p. 118. Blocks, packing of, 1976 Feb. p. 122; 1976 Oct. p 131

Board games, 1958 Oct. p. 124; 1960 Apr. p. 170; 1961 July p. 148; 1963 Oct. p. 124; 1965 Oct. p. 96; 1967 Oct. p. 128; 1971 Oct. p. 104; 1973 Jan. p. 108; 1974 Feb. p. 106; 1975 June p. 106; 1975 Dec. p. 116; 1976 Sept. p. 206; 1976 Oct. p. 131; 1978 Feb. p. 19. Bode's law, 1970 Apr. p. 108. Boolean algebra, 1969 Feb. p. 110. Borromean rings, 1957 June p. 166; 1961 Sept. p. 242; 1971 Sept. p. 204. Bouncing ball inside ellipse, 1961 Feb. p. 146. Bouncing balls inside polygons and polyhedrons, 1963 Sept. p. 248. Braids, 1959 Dec. p. 166; 1962 Jan. p. 136. Bricks, canonical, 1976 Feb. p. 122; 1976 Oct. p. 131. Bridg-it, board game, 1958 Oct. p. 124; 1961 July p. 148. Bynum's game, 1974 Feb. p. 106.

\mathcal{C}

Calculating prodigies, 1967 Apr. p. 116.

Calculators, pocket, 1976 July p. 126.

p. 136; 1969 Mar. p. 116.

Calculations, rapid methods of, 1967 May

Calculus of finite differences, 1961 Aug. p. 134. Calendar trick, 1967 May p. 136. Card games: Eleusis, 1959 June p. 160; Guess-it, 1967 Dec. p. 127; Clock solitaire, 1968 Feb. p. 118; Baker's card solitaire, 1968 June p. 112. Card puzzles, 1968 June p. 112; 1974 Nov. p. 122. Card shuffling theory, 1966 Oct. p. 114. Card tricks, mathematical, 1957 Sept. p. 220; 1966 Oct. p. 114; 1966 Dec. p. 128; 1968 June p. 112; 1972 July p. 102; 1973 Aug. p. 98; 1978 Feb. p. 19. Cardiod curve, 1970 Sept. p. 210. Carnival mathematics: James Hugh Riley Shows, Inc., 1959 Apr. p. 160. Carroll, Lewis, 1960 Mar. p. 172; 1967 May p. 136; 1967 Sept. p. 128; 1969 Apr. p. 124; 1975 Dec. p. 116. Catalan numbers, 1976 June p. 120. Catenary curve, 1961 Oct. p. 160,

p. 19. Chess, computer, 1962 Mar. p. 138; 1975 Apr. p. 126. Chess knight problems, 1967 Oct. p. 128. Chess, opening trap, 1971 Jan. p. 104. Chess, Oriental, 1960 Apr. p. 170. Chess queens, problem of the eight, 1962 Nov. p. 151. Chess, task problems, 1972 May p. 112. Chinese checkers problems, 1976 Oct. p. 131. Chinese interlocking puzzles, 1978 Jan. p. 14. Chinese remainder theorem, 1976 July p. 126. Chomp, game of, 1973 Jan. p. 108. Church of the fourth dimension, 1962 Jan. p. 136. Cipher, Bacon's, 1972 Nov. p. 114. Circle-and-spots problem, 1969 Aug. p. 118. Circle, involute of, 1962 Apr. p. 154. Circles, rolling, 1970 Sept. p. 210. Clairvoyance test, 1973 Aug. p. 98. Clock solitaire, card game, 1968 Feb. p. 118. Coincidences, 1972 Oct. p. 110. Col, game of, 1976 Sept. p. 206. Combinatorial theory, 1963 Aug. p. 112; 1968 Feb. p. 118; 1969 Jan. p. 116; 1969 Dec. p. 122; 1973 Feb. p. 106; 1976 Oct. p. 131; 1978 May p. 24. Computers, talking, 1971 June p. 120. Connecto, match game, 1969 July p. 116. Conway, J.H.: On Numbers and Games, 1976 Sept. p. 206. "Cooks," puzzle errors, 1966 May p. 122. Corner the lady, game of, 1977 Mar. p. 134. Coxeter, H.S.M.: Introduction to Geometry, 1961 Apr. p. 164. Cram, game of, 1974 Feb. p. 106; 1975 June p. 106. Crosscram, game of, 1974 Feb. p. 106; 1976 Sept. p. 206. Crossed-ladder problem, 1970 June p. 132. Crossing numbers, 1973 June p. 106. Cryptanalysis, 1972 Nov. p. 114; 1977 Aug. p. 120. Császár polyhedron, 1975 May p. 102. Cube, Conway's, 1976 Feb. p. 122. Cube, Soma, 1958 Sept. p. 182; 1969 July p. 116.

Cubes, magic, 1976 Jan. p. 118; 1976 Feb.

p. 122.

Checkerboard puzzles, 1962 Nov. p. 151;

Cheskers, game of, 1967 Oct. p. 128; 1978 Feb.

1978 Feb. p. 19.

p. 155; Mind and Matter, by Erwin Schrodinger, 1959 Mar. p. 169; The Blue and Brown Book, by Ludwig Wittgenstein; Ludwig Wittgenstein: A Memoir, by Norman Malcolm, 1959 Aug. p. 149; Blaise Pascal, by Ernest Mortimer, 1959 Dec. p. 191; Children's Books, 1959 Dec. p. 201; The Wandering Albatross, by William Jameson, 1960 Feb. p. 169; New Maps of Hell, by Kingsley Amis, 1960 July p. 179; Tribes of the Sahara, by Lloyd Cabot Briggs, 1960 Nov. p. 217; Children's Books, 1960 Dec. p. 186; On Thermonuclear War, by Herman Kahn; Arms Control, Fall issue of Daedalus, 1961 Mar. p. 197; Board and Table Games from Many Civilizations, by R. C. Bell, 1961 Aug. p. 155; Daily Life in Florence in the Time of the Medici, by J. Lucas-Dubreton, 1961 Oct. p. 187; Children's Books, 1961 Dec. p. 183; Has Man a Future? by Bertrand Russell; May Man Prevail? by Erich Fromm, 1962 Feb. p. 177; The New World 1939/1946, by Richard G. Hewlett and Oscar E. Anderson, Jr.; Now It Can Be Told, by Leslie R. Groves, 1962 Aug. p. 141; Children's Books, 1962 Dec. p. 180; The Discovery of Neptune, by Morton Grosser, 1963 Mar. p. 169; Children's Books, 1963 Dec. p. 161; Interstellar Communication, by A. G. W. Cameron, 1964 Feb. p. 141; A Stress Analysis of a Strapless Evening Gown, edited by Robert A. Baker; Psychology in the Wry, edited by Robert A. Baker; The Scientist Speculates, edited by I. J. Good, 1964 Sept. p. 243; Children's Books, 1964 Dec. p. 143; Children's Book, 1965 Dec. p. 114.

0

Oppenheimer, Jane. Review: Life: An Introduction to Biology, by George Gaylord Simpson, Colin S. Pittendrigh and Lewis H. Tiffany, 1957 Aug. p. 139.

P

Passmore, John. Review: The Career of Philosophy: From the Middle Ages to the Enlightenment, by John Herman Randall, Jr., 1963 May p. 177.

Peierls, Rudolf E. Review: The Conceptual Development of Quantum Mechanics, by Max Jammer, 1967 Jan. p. 137.

Penrose, L. S. Review: Human Fertility: The Modern Dilemma, by Robert C. Cook, 1951 Aug. p. 65.

Persico, Enrico. Review: Enrico Fermi: Collected Papers (Note e Memorie). Vol. I: Italy 1921-1938, edited by Edoardo Amaldi, Enrico Persico, Franco Rasetti and Emilio Segrè, 1962 Nov. p. 181.

Pierce, John R. Review: Automata Studies, edited by C. E. Shannon and J. McCarthy, 1956 Aug. p. 177.

1956 Aug. p. 177. Pirie, N. W. Review: Science in History, by J. D. Bernal, 1966 Mar. p. 131.

Pritchett, V. S. Review: Command the Morning, by Pearl S. Buck, 1959 July p. 159.

R

Rabi, I. I. Review: Security, Loyalty and Science, by Walter Gellhorn, 1951 Jan. p. 56.

Rapoport, Anatol. Reviews: The Natural History of Aggression, edited by J. D. Carthy and F. J. Ebling, 1965 Oct. p. 115; The Strategy of World Order: Vol. I, Toward a Theory of War Prevention; Vol. II, International Law; Vol. III, The United Nations; Vol. IV, Disarmament and Economic Development. Edited by Richard A. Falk and Saul H. Mendlovitz, 1966 Oct. p. 129.

Raven, Charles E. Review: The Royal Society: Its Origins and Founders, edited by Sir Harold Hartley, 1961 May p. 191.

Rich, Alexander, Review: Comprehensive Biochemistry, edited by Marcel Florkin and Elmer H. Stotz, 1969 Feb. p. 126.

Romer, Alfred Sherwood. Review: Evolution Emerging, by William King Gregory, 1951 July p. 64.

Ryle, Gilbert. Review: Philosophical Remarks on the Foundations of Mathematics, by Ludwig Wittgenstein, 1957 Sept. p. 251.

S

Sahlins, Marshall D. Reviews: African Genesis, by Robert Ardrey, 1962 July p. 169; Culture against Man, by Jules Henry, 1964 May p. 139; Structural Anthropology, by Claude Lévi-Strauss, 1966 June p. 131.

Sciama, Dennis. Review: The Measure of the Universe, by J. D. North, 1967 Sept. p. 293.

Shapiro, Harry L. Reviews: The Torment of Secrecy, by Edward A. Shils; The Loyal and the Disloyal, by Morton Grodzins, 1956 July 120.

Shapley, Harlow. Review: Explorer of the Universe: A Biography of George Ellery Hale, by Helen Wright, 1966 Nov. p. 153.

Simpson, George Gaylord. Reviews: The Autobiography of Charles Darwin, 1809-1882, with Original Ommissions Restored, edited by Nora Barlow, 1958 Aug. p. 117; The Phenomenon of Man, by Pierre Teilhard de Chardin, 1960 Apr. p. 201.

Sivin, N. Review: Science and Civilisation in China. Volume 4: Physics and Physical Technology; Part III: Civil Engineering and Nautics, by Joseph Needham, with collaboration of Wang Ling and Lu Gwei-Djen, 1972 Jan. p. 113.

Smith, M. Brewster. Review: The Fabric of Society: An Introduction to the Social Sciences, by Ralph Ross and Ernest van den Haag, 1958 Feb. p. 123.

Snow, C. P. Review: The Western Intellectual Tradition: From Leonardo to Hegel, by J. Bronowski and Bruce Mazlish, 1960 Sept. p. 249.

Stone, Abraham. Review: *The Second Sex*, by Simone de Beauvoir, 1953 Apr. p. 105.

Struve, Otto. Review: The Planets, Their Origin and Development, by Harold C. Urey, 1952 Aug. p. 68.

Sutton, O. G. Review: Arms and Insecurity, Statistics of Deadly Quarrels, by Lewis F. Richardson, 1961 Jan. p. 193.

Szent-Gyorgyi, Albert. Review: The Legacy of Hiroshima, by Edward Teller with Allen Brown, 1962 May p. 185.

\mathcal{T}

Thomson, Sir George. Review: Time's Arrow and Evolution, by H. F. Blum, 1952'Apr. p. 88 Toulmin, Stephen E. Reviews: The Logic of Scientific Discovery, by Karl R. Popper, 1959 May p. 189; Aspects of Scientific Explanation and Other Essays in the Philosophy of Science, by Carl G. Hempel, 1966 Feb. p. 129.

U

Ulam, S. Review: The Computer and the Brain, by John von Neumann, 1958 June p. 127

V

van Dresser, Peter. Review: Rocket Development, by Robert Hutchins Goddard, 1949 Apr. p. 56.

W

Walsh, J. L. Review: Human Behavior and the Principle of Least Effort: An Introduction to Human Ecology, by George Kingsley Zipf, 1949 Aug. p. 56.

Warner, Edward. Review: Aeronautics at the Mid-Century, by Jerome C. Hunsaker, 1953 Jan. p. 74.

Weisskopf, Victor F. Reviews: Physics and Philosophy: The Revolution in Modern Science, by Werner Heisenberg, 1958 Sept. p. 215; The Politics of Pure Science, by Daniel S. Greenberg, 1968 Mar. p. 139.

White, Morton. Review: Words and Things: A Critical Account of Linguistic Philosophy and a Study in Ideology, by Ernest Gellner, 1960 Mar. p. 205.

White, Robert W. Reviews: Social Class and Mental Illness: A Community Study, by August B. Hollingshead and Fredrick C Redhich, 1958 Nov. p. 155; Freud The Mind of the Moralist, by Philip Rieff, Psychoanalysis, Scientific Method and Philosophy, edited by Sidney Hook, 1959 Sept p. 267; The Children of Sanchez, Autobiography of a Mexican Family, by Oscar Lewis, 1962 Mar. p. 165.

Whittaker, Sir Edmund. Reviews Natural Philosophy of Cause and Chance, by Max Born, 1950 Jan. p. 56; Albert Einstein Philosopher-Scientist, edited by Paul Arthur Schilpp, 1950 May p. 56

Williams, L. Pearce, Review Humphry Day, by Sir Harold Hartley, 1967 Oct. p. 145 Wilson, Robert R. Review Brighter than a Thousand Suns. A Personal History of the Atomic Scientists, by Robert Jungk, 1958 Dec

p 145.
Wrong, Dennis H. Review Centuries of
Childhood A Social History of Family Life, by
Philippe Aries, 1963 Apr. p 181

7

Zinberg, Dorothy, and Paul Doty Review The New Brahmins Scientific Life in America, by Spencer Klaw, 1969 May p. 139 Lull, Ramon combinatorial wheels, 1963 Aug p 112

M

Machine, matchbox game learning, 1962 Mar Magic cubes, 1976 Jan p 118, 1976 Feb p 122 Magic pyramid, 1974 June p 116 Magic squares, 1957 Jan. p 138, 1959 Mar p 146, 1963 Aug p 112, 1969 Dec p 122, 1976 Jan p 118 Magic stars, 1965 Dec p 100 Magic tricks, 1957 Sept p 220, 1960 Aug p 149, 1962 Aug p 120, 1964 Aug. p 96, 1969 July p 116, 1970 Mar p 121, 1972 July p 102, 1973 Aug p 98, 1978 Feb p 19 Maharajah, fairy chess game, 1960 Apr p 170 Mailman, the mathematical, 1965 June p 120 Map coloring, 1960 Sept p 218, 1975 Apr p 126, 1975 May p 102, 1976 July p 126 Map folding problem, 1971 May p 110 Map projections, 1975 Nov p 120 Mascheroni compass problems, 1969 Sept p 239, 1969 Dec p 122 Matchbox game-learning machine, 1962 Mar Matches, tricks and puzzles, 1969 July p 116 Matrix, Dr numerologist, 1960 Jan p 150, 1961 Jan p 164, 1963 Jan p 138, 1964 Jan p 120, 1965 Jan p 110, 1966 Jan p 112, 1967 Jan p 118, 1968 Jan. p 124, 1969 Jan p 116, 1969 Oct p 126, 1971 Jan p 104, 1972 Feb p 100, 1973 Aug p 98, 1974 June p 116, 1975 Sept. p 174, 1976 Nov p 132, 1977 Dec p 17 Mazes, 1959 Jan p 132, 1960 Mar p 172 Meander, game of, 1975 June p 106 Mechanical puzzles, 1959 Sept p 236, 1973 Feb p 106, 1978 Jan p 14 Mersenne prime numbers, 1968 Mar p 121 Mikusinski's cube, 1972 Sept. p 176 Minicheckers, 1962 Mar p 138 Minichess, 1962 Mar p 138 Mirror images, left-right symmetry, 1958 Mar p 128, 1978 June p 18 Mnemonics, 1957 Oct p 130 Moebius band, 1957 June p 166, 1963 July p 134, 1968 Dec p 112 Monkey and coconuts problem, 1958 Apr p 118 Moon landing, numerology of, 1969 Oct p 126 Morley's triangle theorem, 1961 Apr p 164 Mozart's dice composer, 1974 Dec p 132. "Mrs Perkins' Quilt" problem, 1966 Sept p 264 Music, mechanical composition of, 1974 Dec. Music, white, brown and 1/f 1978 Apr p 16

N

Napier's abacus, 1973 Apr p 106
Aapier's bones, 1973 Mar p 110
Negabinary notation, 1973 Apr p 106
Negabinary notation, 1973 Apr p 106
Negative numbers, 1977 June p 131
Nephroid curve, 1970 Sept p 210
Newcomb's paradox, 1973 July p 104, 1974
Mar p 102
Nim like games, 1958 Feb p 104, 1967 Feb
p 116 1972 Jan p 104, 1975 June p 106,
1976 Sept p 206, 1977 Mar p 134
Nice point circle, 1970 June p 132
Nanperiodic tiling, 1977 Jan p 110
Neptransitive paradoxes, 1974 Oct. p 120

Nothing, 1975 Feb p 98
No-three-in-line problem, 1976 Oct p 131, 1977 Mar p 134
Numbers, Conway's construction of, 1975 Feb p 98, 1976 Sept. p 206
Numbers, negative, 1977 June p 131
Numerical congruence, 1958 July p 102
Numerology, see Matrix, Dr

0

Odd and even, 1963 Dec p 140
Op art, 1965 July p 100
Optical illusions, 1970 May p 124, 1976 Nov p 132
Order and disorder, 1968 July p 116
Origami Japanese paper folding, 1959 July p 138
Oulipo, 1977 Feb p 121

P

Palindrome recognizer, cellular automaton, 1971

Packing spheres, 1960 May p 174, 1961 Apr

p 164, 1968 May p 130

Feb p 112

Packing squares, 1966 Sept p 264

Palindromes, number, 1970 Aug p 110 Palindromes, word, 1970 Aug. p 110, 1977 Feb Paper cutting, 1960 June p 161 Paper folding, mathematical, 1971 May p 110, 1971 Sept p 204 Paper folding Origami, 1959 July p 138 Paradox, birthday, 1957 Apr p 166 Paradox of Aristotle's wheel, 1970 Sept p 210 Paradox of the hanged man, 1963 Mar p 144 Paradoxes, logic, 1963 Mar p 144, 1978 Mar Paradoxes, mathematical, by Bertrand Apollinax, 1961 May p 162 Paradoxes, probability, 1957 Apr p 166, 1970 Dec p 110, 1974 Oct. p 120, 1976 Mar p 119 Paradoxes, Zeno's, 1964 Nov p 126, 1971 Mar p 106, 1971 Dec p 96 Pascal's triangle, 1966 Dec p 128 Pascal's wager, 1970 Dec p 110 Patterns, induction game, 1969 Nov p 140 Peano curves, 1976 Dec p 124, 1978 Apr p 16 Peg solitaire, 1962 June p 156 Pell's equation, 1974 July p 116 Penny puzzles, 1966 Feb p 112, 1970 Apr p 108, 1970 May p 124 Penrose tiles, 1977 Jan p 110 Pentagon tiling, 1975 July p 112, 1975 Dec p 116 Perfect numbers, 1968 Mar p 121 Perpetual motion, 1972 Feb p 100 Phi, the golden ratio, 1959 Aug. p. 128, 1969 Mar p 116, 1977 Jan. p 110, 1977 Mar Pi, 1960 July p 154, 1965 Jan p 110, 1969 May p 118, 1969 Oct p 126, 1972 June p 114, 1975 Apr p 126 Piet Hein Danish inventor, 1965 Sept p 222. Point sets, coloring of, 1972 June p 114, 1973 Scpt p 176 Polyabolos, 1967 June p 124 Polycubes 1972 Sept p 176, 1973 Oct p 114 Polygons self-replicating, 1963 May p. 154 Polygons triangulation of, 1976 June p 120

Polyhedrons, five regular, 1958 Dec p 126, 1971 Sept p 204 Polyhedrons, toroidal, 1975 May p 102 Polyhexes, 1967 June p 124, 1975 Aug p 112 Polyramonds, 1964 Dec p 124, 1965 July p 100, 1975 Aug p 112 Polyominoes, 1957 Dec p 126, 1960 Nov p 186, 1965 Oct p 96, 1965 Dec p 100, 1966 Dec p 128, 1970 Oct p 120, 1972 Sept p 176, 1973 May p 102, 1975 Aug. p 112 Pony puzzle, Sam Loyd's, 1971 Nov p 174 Premiums, advertising, 1971 Nov p 174 Prim, game of, 1976 Sept p 206 Prime numbers, 1964 Mar p 120, 1968 Mar p 121, 1970 Aug p 110, 1977 Aug p 120, 1977 Dec p 17 Principle of indifference, 1970 Dec p 110 Probability, 1957 Apr p 166, 1959 Oct p 174, 1961 Dec p 150, 1966 Dec p 128, 1968 July p 116, 1968 Nov p 140, 1970 Dec p 110, 1972 Oct. p 110, 1974 Oct p 120, 1976 Mar p 119 Probability paradoxes, 1957 Apr p 166, 1970 Dec p 110, 1974 Oct p 120, 1976 Mar p 119, 1978 Feb p 19 Problems, short, 1957 Feb p 152, 1957 Nov p 140, 1958 Aug. p 100, 1959 Feb p 136, 1959 May p 164, 1960 Feb p 150, 1960 Oct p 172, 1961 June p 166, 1962 Feb p 150, 1962 Oct p 130, 1963 Apr p 156, 1963 Nov p 144, 1964 June p 114, 1965 Mar p 112, 1965 Nov p 116, 1967 Mar p 124, 1967 Nov p 125, 1968 Aug. p 106, 1969 Apr p 124, 1970 Feb p 112, 1970 Nov p 116, 1971 July p 106, 1972 Apr p 100, 1972 June p 114, 1973 May p 102, 1974 Apr p 110, 1975 Mar p 112, 1975 Dec p 116 Projective plane, 1963 July p 134 Propositional calculus, 1969 Feb p 110 Psychic motor, 1975 Apr p 126 Pyramid, magic, 1974 June p 116 Pythagorean theorem, 1960 June p 161, 1964 Oct p 118, 1971 Nov p 174 Pythagorean triangles, 1960 June p 161, 1964 Oct p 118

Q

Quadraphage, game of, 1974 Feb p 106 "Quadrilles," domino recreation, 1969 Dec p 122 Quartering problems, 1977 July p 132

R

Race track, game of, 1973 Jan. p 108 Radiolaria, skeletons of, 1978 June p 18 Ramsey graph theory, 1977 Nov p 18 Random numbers, 1968 July p 116 Random walks, 1969 May p 118, 1969 June p 122 Rectangles, fault free, 1960 Nov p 186 Reflections and rotations, 1962 May p 156 Relativity paradox, 1975 Apr p 126 Rep-tiles, 1963 May p 154 Reversi, game of, 1960 Apr p 170 Rex, game of, 1975 June p 106 Rhyme schemers counting of, 1976 June p 120, 1978 May p. 24 Rims game of, 1976 Sept p 206 Ring puzzle, Chinese, 1972 Aug. p 106 Room squares, 1975 May p 102 Rotations, reflections and, 1962 May p. 156

Cubes

Cubes, problems with, 1968 Oct p 120 Cubes, thirty color, 1961 Mar p 166 Cubes, 24 touching, 1971 Dec p 96 Cubing the cube, 1965 Apr p 128 Curves of constant width, 1963 Feb p 148 Curves, pathological, 1976 Dec p 124 Cutcake, game of, 1976 Sept p 206 Cyclic numbers, 1970 Mar p 121 Cycloid curve, 1964 July p 110

D

Decision theory, 1973 July p 104, 1974 Mar Deltahedra, 1978 June p 18 Diabolical cube, 1972 Sept p 176 Dice, 1959 Apr p 160, 1968 Nov p 140, 1970 Dec p 110, 1973 Aug p 98, 1974 Dec p 132, 1978 Feb p 19 Digital roots, 1958 July p 102 Dim, game of, 1976 Sept p 206 Diophantine equations, 1958 Apr p 118, 1958 June p 108, 1970 July p 117 Dissections, plane, 1958 June p 108, 1958 Nov p 136, 1960 June p 161, 1960 July p 154, 1961 Nov p 158, 1963 May p 154, 1966 May p 122, 1966 Sept p 264, 1971 Nov p 174, 1977 July p 132 Divisibility rules, 1962 Sept p 232 Dodgem, game of, 1975 June p 106 Dollar bills, tricks and puzzles, 1968 Apr p 118 Dominoes, 1969 Dec p 122, 1974 Feb p 106, 1974 Apr p 110, 1976 Sept p 206 Double acrostics, poems, 1967 Sept p 268 Doublets, Lewis Carroll's word game, 1960 Mar p 172 Dragon curve, 1967 Mar p 124 Dudeney, Henry Ernest England's greatest puzzlist, 1958 June p 108

E

"e," the mathematical constant, 1961 Oct p 160
Earthquakes, prediction of, 1977 Dec p 17
Eleusis, an induction card game, 1959 June p 160, 1970 Oct p 18
Elevator problems, 1973 Feb p 106
Ellipse, 1961 Feb p 146, 1977 Apr p 129
Epicycloids, 1970 Sept p 210
Escher, M C, art of, 1961 Apr p 164, 1965 Apr p 128, 1966 Apr p 110, 1968 Dec p 112, 1975 July p 112, 1977 Jan p 110, 1978 June p 18
Everything, 1976 May p 118
Extrasensory, perception, machines for teaching, 1975 Oct p 114
Extraterrestrial communication, 1965 Aug

F

Factorials, 1967 Aug p 104
Fallacies, 1958 Jan p 92, 1971 Apr p 114
Fermat's last theorem, 1970 July p 117
Fibonacci notation, 1973 Apr p 106
Fibonacci series, 1959 Aug p 128, 1966 Dec p 128, 1969 Mar p 116, 1977 Mar p 134
Figurate numbers, 1974 July p 116
Finger counting, 1968 Sept p 218

Finger multiplication, 1968 Sept p 218 Flag, American, 1976 Aug p 102 Flatland two-dimensional worlds in fiction, 1962 July p 144 Flexagons, 1956 Dec p 162, 1958 May p. 122 Flexatube puzzle, 1958 May p 122 Fliess, Wilhelm, cycle theory of, 1966 July p 108 Flowsnake curve, 1976 Dec p 124 Focus, board game, 1963 Oct p 124 Foreheads, problem of the numbers on, 1977 May p 128 Four-color map theorem, 1960 Sept p 218, 1975 Apr p 126, 1976 Apr p 126 Four-fours problem, 1964 Jan p 120 Fourth dimension, 1962 Jan p 136, 1966 Nov p 138, 1968 May p 130 Fourth dimension, church of the, 1962 Jan p 136 Fractal curves, 1976 Dec p 124, 1978 Apr p 16 French military board game, 1963 Oct p 124 Frieze patterns, 1972 Apr p 100

G

"Gambler's ruin" problem, 1969 May p 118 Gambling John Scarne's new book, 1961 Dec p 150 Game theory, 1967 Feb p 116, 1967 Dec p 127, 1976 Sept p 206 Genaille's rods, 1973 Mar p 110 Geometry H S M Coxeter's new book, 1961 Apr p 164 Geometry, non-Euclidean, 1971 Apr p 114 Get-off-the earth puzzle, Sam Loyd's, 1971 Nov p 174 Godel's proof, 1978 Mar p 25 Golden ratio phi, 1959 Aug p 128, 1969 Mar p 116, 1977 Jan p 110, 1977 Mar p 134 Golomb's triangle, 1972 Mar p 108 Go-moku, game of, 1971 Aug p 102 Graceful graphs, 1972 Mar p 108 Graeco-Latin squares, 1959 Nov p 181 Graph theory, 1964 Apr p 126, 1968 Feb p 118, 1969 Dec p 122, 1972 Mar p 108, 1973 June p 106, 1976 Apr p 126, 1976 Aug p 102, 1977 Nov p 18 Grasshopper, game of, 1971 Oct p 104 Gray Codes, 1972 Aug p 106 Greatest common divisor, device for finding, 1965 May p 120 Group theory, 1959 Dec p 166 "Grue" paradox of induction, 1969 Aug p 118 Guess-1t, card game, 1967 Dec p 127

H

Hackenbush, game of, 1972 Jan p 104
Hadamard matrixes, 1975 May p 102
Halma, game of, 1961 July p 148, 1971 Oct
p 104
Hamiltonian circuits, 1957 May p 150,
1972 Aug p 106, 1976 Apr p 126
Hanged man, paradox of the, 1963 Mar p 144
Hats, problem of the colored, 1977 May p 128
Hein, Piet Danish inventor, 1965 Sept p 222
Helix, 1963 June p 1948
Hempel's paradox of confirmation, 1957 Apr
p 166, 1976 Mar p 119
Hex, game of, 1957 July p 145, 1975 June
p 106
Hex numbers, 1974 July p 116

Hexaflexagons, 1956 Dec p 162, 1976 June p 120
Hexagon, magic, 1963 Aug p 112
Hexagon, magic, 1962 Mar p 138
Hit-and-Run, match game, 1969 July p 116
Hobbes, Thomas on squaring the circle, 1960 July p 154
Hyperbola, 1977 Sept p 24
Hyperboloid, 1977 Sept p 24
Hypercubes, 1957 May p 150, 1959 Mar p 146, 1966 Nov p 138, 1971 Aug p 102, 1972 Aug p 106, 1978 Feb p 19
Hyperspheres, 1968 May p 130
Hypocycloids, 1970 Sept p 210

I

I Ching, 1974 Jan p 108
Icosian Game and Tower of Hanoi, 1957 May p 150
Indifference, principle of, 1970 Dec p 110
Induction, mathematical, 1977 May p 128
Induction, scientific, 1959 June p 160, 1969
Aug p 118, 1969 Nov p 140, 1976 Mar p 119, 1977 Oct p 18
Infinite regress, 1965 Apr p 128, 1968 Dec p 112
Integral brick problem, 1970 July p 117

J

Jourdain's card, logic paradox, 1963 Mar p 144 Jump proofs, 1977 May p 128

K

Kakeya's needle problem, 1963 Feb p 148 Klein bottle, 1963 July p 134 Knot game, Vlam's, 1972 June p 114 Knot theory, 1961 Sept p 242, 1972 Dec p 102 Kruskal count, 1978 Feb p 19

L

Lattice of integers, 1965 May p 120 Leprechaun puzzle, 1971 Nov p 174 Lewthwaite's game, 1975 June p 106 Life, game of, 1970 Oct p 120, 1971 Feb p 112, 1972 Jan p 104 Limericks, paradoxical, 1977 Apr p 129, 1977 May p 128 Limits, 1964 Nov p 126, 1971 Mar p 106 1971 Dec p 96 Liouville numbers, 1968 July p 116 Liquid pouring problems, 1963 Sept p 248 Logarithmic spiral, 1959 Aug. p 128, 1962 Apr p 154, 1965 July p 100 Logic cards, punched, 1960 Dec p 160 Logic paradoxes 1963 Mar p 144 1978 Mar Logic puzzles, 1959 Feb p 136 1978 Mar p 25 Lost King Tours, 1977 Apr p 129 Loyd, Sam greatest US puzzlist 1957 Aug. p 120, 1971 Nov p 174, 1974 Aug p 98 1976 Oct p 131

SCIENTIFIC

Index to The Amateur Scientist

Accelerator, electron, how to construct, 1959 Jan. p. 138.

Accelerator, proton, how to construct, 1971 Aug. p. 106.

Acoustics, 1956 Jan. p. 120.

Aerodynamics, bathtub, 1954 Apr. p. 100. Aerodynamics of air-supported vehicles, 1964 Jan. p. 131.

Air currents, how to photograph in color, 1964 Feb. p. 132; 1971 May p. 118; 1974 Aug. p. 104.

Algae culture, 1954 Dec. p. 108.

Altitude simulator, high, 1965 Sept. p. 239. Amino acids, how to make, 1970 Jan. p. 130. Amplifier, hydraulic, 1961 Apr. p. 177.

Amplifiers, operational, 1970 May p. 130; 1971 Jan. p. 110.

✓Analogue computer, how to make, 1968 June p. 122.

Analogue computer that simulates Pavlov's dogs, 1963 June p. 159.

Anemometer, 1972 June p. 122.

Anemometer, pendulum type, how to make, 1971 Oct. p. 108.

Animal color preferences, how to determine, 1966 Dec. p. 135.

Animals, how to measure metabolic rate of small, 1969 July p. 122.

Animals, Skinner box for training small, 1975 Nov. p. 128.

→Antennas for observing satellite, helical, 1975 Dec. p. 120.

Antibiotics experiments, 1958 Mar. p. 134. Antibiotics, how to extract from soil, 1965 Nov. p 124

Antitwister mechanisms, 1975 Dec. p. 120. Aquariums, sea-water, 1962 Nov. p. 169. Aquatic animals and plants, observatory for

viewing, 1972 Oct. p. 114. Aquatic insects, how to culture, 1970 Mar.

p 131

Archaeology, 1952 July p 82. Archaeology, amateur, 1967 Dec. p. 134. Archaeology, Indian-village, 1953 July p. 94;

1960 Jan p 158

Area measurement, 1958 Aug. p. 107. Argon gas laser, how to make, 1969 Feb. p. 118. Art, kinetic "op", 1975 June p. 112.

Artificial satellites, how to track, 1958 Jan. p. 98; 1958 Oct. p. 130.

Astronomical observatory, report on amateur, 1970 Арг. р. 114.

-Astrophotography, 1965 Dec. p. 106. Astrophotography, color technique of, 1969 Aug. p. 124.

Astrophotometry, 1954 Feb. p. 100. Asynchronous motor, how to make, 1975 June p. 112.

Atom smasher, how to construct, 1971 Aug. p. 106.

Aurora (IGY), 1957 Jan. p. 144. Auroral spectrograph, 1961 Jan. p. 177.

Bacteriostasis, 1958 Mar. p. 134. Balls of steel, experiments with, 1964 Aug. p. 100.

Bénard cells, 1977 Nov. p. 152.

Beta-ray spectrometer, 1958 Sept. p. 197. Binoculars for viewing the sun, 1974 Nov.

Binoculars, how to test, 1958 Oct. p. 130. Bioelectricity, 1962 Jan. p. 145.

Bird banding, 1952 May p. 86. Birdman of Alcatraz, 1957 Dec. p. 143.

Birdsongs, how to record voiceprints of, 1974 Feb. p. 110.

Boat designs, 1957 Apr. p. 175.

Boat that sails directly into eye of the wind, toy, 1975 Dec. p. 120

Boat, toy putt-putt, 1961 Aug. p. 143.

Bubbles, how to blow long-lived: soap, 1969 May p. 128; plastic, 1973 July p. 110.

Bubbles in which gas encloses liquid, how to make, 1974 Apr p. 116.

Calina, 1961 Oct. p. 172.

Camera, construction of cold, 1973 Dec. p. 122, Cameras, construction of high-speed, 1964 July p. 118.

Candles, how to make and study the burning of, 1978 Apr. p. 154,

Cantaloupe, extraction of growth substances from, 1964 Aug. p. 100.

Capacitors, high-voltage charging of, 1958 Feb. p. 112.

Carbon dioxide laser, how to make, 1971 Sept. p. 218.

Carbon-14 dating, 1957 Feb. p. 159.

Cartersian diver, design for, 1972 July p. 106. Cassia nictitans: sensitive plant, 1961 Mar.

Cavendish apparatus for measuring gravitation, how to make, 1963 Sept. p. 267.

Chromatograph simulator, how to make, 1972 Feb. p. 106.

Chromatography, 1953 Feb. p. 102.

Chromatography, gas, 1966 June p. 124; 1967 Sept. p. 283.

Chromatography of genes in fruit flies, 1965 June p. 126.

Chromatography, paper, 1961 July p. 162. Chromatography, thin-layer technique, 1969

Mar. p. 124; 1976 Feb. p. 128. Clay, analysis of, 1961 Dec. p. 161.

Clock, driven by tuning fork, 1964 Apr. p. 136. Clock, pendulum-type, 1960 July p. 165; 1960 Aug. p. 158.

 Clock, pendulum-type equipped with quartzcrystal oscillator, 1974 Sept. p. 192. Clock, piezoelectric, 1961 June p. 181.

Clock, quartz-crystal, 1957 Sept. p. 233; 1961 June p. 181.

Clock, tunnel-diode, 1963 Mar. p. 157. Cloud chamber, diffusion, 1952 Sept. p. 179.

Cloud chamber, plumber's friend, 1956 Dec.

Cloud chamber, Wilson, 1956 Apr. p. 156. Cloud chamber, with magnet, 1959 June p. 173. Cockroaches in maze experiments, 1974 Feb. p. 110.

Coffee cup physics, 1977 Nov. p. 152. Color astrophotography, technique of, 1969 Aug. p. 124.

Color preferences of animals, how to study,

1966 Dec. p. 135. Color theory, 1953 Nov. p. 112.

Color vision, experiments with pigeons, 1970 Oct. p. 124.

Colonmeter, how to make, 1965 Feb. p. 118. Computer, analogue, how to make, 1968 June p. 122.

Roulette systems, 1961 Dec. p. 150. "Rusty compass" problems, 1969 Sept. p. 239.

S

Sackson, Sidney: A Gamut of Games, 1969 Nov. "Sandwich theorem," 1959 Apr. p. 160. Scarne, John: Complete Guide to Gambling, 1961 Dec. p. 150. Science puzzles, 1966 Aug. p. 96. Set, null, 1975 Feb. p. 98. Set, universal, 1976 May p. 118. Sicherman dice, 1978 Feb. p. 19. Silver dollar, game of, 1976 Sept. p. 206. Sim, game of, 1973 Jan. p. 108. Simplicity, concept of, 1969 Aug. p. 118. Sliding-block puzzles, 1957 Aug. p. 120; 1964 Feb. p. 122. Slither, game of, 1972 June p. 114. Smullyan, Raymond M., review of book by, 1978 Mar. p. 25. Snarks, 1976 Apr. p. 126. Snort, game of, 1976 Sept. p. 206. Snowflake curves, 1965 Apr. p. 128; 1976 Dec. p. 124; 1978 Apr. p. 16. Solar system, 1970 Apr. p. 108. Solids of constant width, 1963 Feb. p. 148. Solitaire, Halma, 1971 Oct. p. 104. Solitaire, isometric, 1966 Feb. p. 112. Solitaire, peg, 1962 June p. 156. Soma cube, 1958 Sept. p. 182; 1969 July p. 116; 1972 Sept. p. 176. Spelling matrices, 1969 Jan. p. 116. Sphere-and-spots problem, 1969 Oct. p. 126. Sphere, point-set coverings of, 1973 Sept. p. 176. Spheres, packing, 1960 May p. 174; 1961 Apr. p. 164; 1968 May p. 130. Spirals, 1962 Apr. p. 154. Spot-the-spot, carnival game, 1959 Apr. p. 160. Sprouts, game of, 1967 July p. 112. Squad-car game, 1967 Feb. p. 116. Square holes, drilling, 1963 Feb. p. 148. Square numbers, 1968 Jan. p. 124; 1970 Aug. p. 110. Squares, Graeco-Latin, 1959 Nov. p. 181. Squares, MacMahon's color, 1961 Mar. p. 166. Squares, magic, 1957 Jan. p. 138; 1959 Mar. p. 146; 1963 Aug. p. 112; 1969 Dec. p. 122; 1976 Jan. p. 118. Squares, packing, 1966 Sept. p. 264. Squaring the circle and pi, 1960 July p. 154. Squaring the square, 1958 Nov. p. 136. Stamp folding problem, 1963 Aug. p. 112;

1971 May p. 110.

Star numbers, 1974 July p. 116.
Steiner triple systems, 1975 May p. 102.
String play, 1962 Dec. p. 146.
Superegg, 1965 Sept. p. 222.
Superellipse, 1965 Sept. p. 222.
Supertasks, 1971 Mar. p. 106; 1971 Dec. p. 96.
Switching circuits, logic of, 1969 Feb. p. 110.
Symmetry and asymmetry, 1958 Mar. p. 128;
1962 May p. 156; 1963 June p. 148; 1978 June p. 18.

T

Tablut, board game, 1963 Oct. p. 124. Tac Tix and nim, 1958 Feb. p. 104. Tangloids, braiding game, 1959 Dec. p. 166. Tangrams, 1959 Sept. p. 236; 1974 Aug. p. 98; 1974 Sept. p. 187. Ternary system, 1964 May p. 118. Tessellations of the plane, see Tiling theory Tetrads, 1977 Apr. p. 129. Tetraflexagons, 1958 May p. 122; 1971 May p. 110. Tetrahedrons, 1958 Dec. p. 126; 1965 Feb. p. 112; 1971 Sept. p. 204. Ticktacktoe, 1957 Mar. p. 160; 1967 Feb. p. 116; 1971 Aug. p. 102; 1971 Oct. p. 104. Tiling theory, 1961 Apr. p. 164; 1975 July p. 112; 1975 Aug. p. 112; 1975 Dec. p. 116; 1977 Jan. p. 110. Time travel, paradoxes of, 1974 May p. 120. Tippy top, 1962 Aug. p. 120. Topology, 1957 June p. 166; 1958 Oct. p. 124; 1961 Sept. p. 242; 1963 July p. 134; 1968 Dec. p. 112; 1978 June p. 18. see also Torus; Moebius band; Map coloring; Knot theory. Torus, 1958 Jan. p. 92; 1959 Mar. p. 146; 1959 Apr. p. 160; 1960 Sept. p. 218; 1962 Jan. p. 136; 1963 July p. 134; 1972 Dec. p. 102; 1975 May p. 102; 1977 Apr. p. 129. Tower of Hanoi and Hamilton's Icosian game, 1957 May p. 150. T-puzzle, 1971 Nov. p. 174. Transfinite numbers, 1966 Mar. p. 112; 1971 Mar. p. 106; 1976 May p. 118. Tree graphs, 1968 Feb. p. 118; 1976 June p. 120; 1976 Sept. p. 206. Tree-plant problems, 1976 Aug. p. 102; 1977 Feb. p. 121. Triangle, internal bisector problem, 1961 Apr. p. 164. Triangle theorems, 1961 Apr. p. 164; 1970 June

p. 132.

Triangles, MacMahon's color, 1968 Oct. p. 120.
Trisection of the angle, 1962 Apr. p. 154; 1966
June p. 116.
Trivalent graphs, 1976 Apr. p. 126.
Tumble rings, 1962 Aug. p. 120.
Turing game, 1971 June p. 120.
Turing machine, 1971 June p. 120.
Twelve-ball problem, 1955 Feb. p. 126; 1955 May p. 120; 1964 May p. 118.
Two-dimensional worlds in fiction, 1962 July p. 144.

U

Ulam's triplet game, 1975 June p. 106; 1975 Dec. p. 116. Undecidable figures, 1970 May p. 124; 1976 Nov. p. 132. Unexpected egg, logic paradox, 1963 Mar. p. 144. Universe, models of, 1976 May p. 118.

V

Venn diagrams, 1969 Feb. p. 110; 1976 May p. 118. Voting paradox, Arrow's, 1974 Oct. p. 120.

W

Wang dominoes, 1977 Jan. p. 110.
Waring's "easier" problem, 1973 Dec. p. 118.
Waring's problem, 1973 Dec. p. 118.
Wheels, 1970 Sept. p. 210; 1978 June p. 18.
Word play, 1964 Sept. p. 218; 1970 Aug. p. 110;
1976 Feb. p. 122; 1977 Feb. p. 121.
Worm paths, 1973 Nov. p. 116.
Wythoff's game, 1977 Mar. p. 134.

Z

Zeno's paradoxes, 1964 Nov. p. 126; 1971 Mar. p. 106; 1971 Dec. p. 96. Zoo, mathematical, 1978 June p. 18. Hydroponics, 1952 Oct p 92 Hygrometer, electric, 1954 May p 96

Illusions, how to create visual, 1971 Mar p 110, 1974 Nov p 126, 1978 Mar p 142 Immunoelectrophoresis, how to perform, 1969 Sept p 248 Indian archaeology, 1953 June p 114, 1960 Jan p 158

✓Infrared diode laser, how to make, 1973 Mar

p 114 Infrared filter, 1973 Mar p 114 Infrared viewer, how to make an inexpensive, 1972 Feb p 106

Interferometer, 1956 Nov p 161 Interferometer, cyclic, how to make, 1973 Feb p 110

Interferometer, laser, how to make a simple, 1972 Feb p 106

Interferometer, series, how to make, 1964 June p 122 Ionizing radiation on plants, how to observe

effects of, 1963 Dec p 151 Isoteniscope, how to make, 1970 Dec p 116 Isotope experiments, 1960 May p 189

Jumping-ring experiment, 1961 Aug p 143

Kaleidoscope, projection, how to make, 1975 July p 120 Kelvin's water-drop electrostatic machine, 1960 Junep 175

Kites, how to make and fly, 1969 Apr p 130, 1978 Feb p 156

Knife edge test, optical, 1958 July p 108 Köhler illumination, how to adjust microscope for, 1968 Apr p 124 Kymograph, how to make, 1960 Apr p 183

Land color experiment, 1960 Jan p 158 Land color slide experiments, 1959 Sept p 249 Laser beam used to measure dirt content of water, 1973 June p. 112.

Laser interferometer, how to make a simple,

1972 Feb p 106 Lasers, how to make helium-neon type, 1964 Sept p 227 and 1965 Dec p 106, argon type, 1969 Feb p 118, dye type, 1970 Feb p 116, carbon dioxide type, 1971 Sept p 218, infrared diode type, 1973 Mar p 114, nitrogen type, 1974 June p 122 Leidenfrost phenomena, 1977 Aug p 126 Lenses, liquid how to make, 1968 Nov p 148 Lepidoptera, 1954 Oct p 96 Lichtenberg figures, how to make, 1964 Dec

Liesegang bands, how to grow, 1969 June p 130 Light, apparatus for measuring the speed of, 1975 Oct p 120

Light from sky, how to study polarized, 1978 Jan p 132

Light, how to polarize, 1977 Dec p 172, 1978 Jan p 132

Light meter for darkroom, how to make, 1963 Aug p 120

Light, scattering, 1977 July p 138, 1977 Nov p 152, 1978 Jan p 132

Liquid pillars, how to make, 1968 Nov p 148 Liquid prism, 1955 June p 122

Liquids, electrostatic effects in, 1967 Jan p 124 Liquids, refactometer used to identify, 1975 May p 109

Lissajous figures made with pendulum, 1973 Aug p 104

Living matter, how to make constituents of, 1970 Jan p 130

Lunar photography, 1960 Dec p 172

Machines, mathematical, 1953 May p 104 Machines that work like muscles, 1973 Apr p 112

Magnetic-resonance spectrometer, 1959 Apr

p 17 Magnetometer, how to make a sensitive, 1968 Feb p 124

Magneto-optic modulator, how to construct, 1970 Nov p 120

Manometer, super sensitive, how to make, 1969 Dec p 128

Mapper, fluid, how to make, 1967 July p 118 Marangoni effect, experiments with, 1978 June p 151

Marine organisms, how to collect, 1965 Mar p 119

_ Mass spectrometer, how to construct, 1970 July p 120

Mathematical machines, 1953 May p 104 Maxwell's demon, apparatus to demonstrate, 1973 Apr p 112

May flies, 1952 Aug p 75

McLeod gauge, vacuum, how to make, 1965 Dec p 106

Mead, how to make, 1972 Sept p 185 Mechanochemical turbine, how to construct, 1973 Apr p 112

Metabolic rate of small animals, how to measure, 1969 July p 122

Metabolism, mice, 1957 Aug p 128 Meteor counter, electronic, 1958 July p 108 Meteorology, 1953 Oct p 114 Mice metabolism, 1957 Aug p 128

Michelson's apparatus, homemade version of, 1975 Oct p 120

Microammeter, how to build, 1973 Oct p 120 Microelectronic flip-flops, 1973 May p 108 Micromanometer, how to make a sensitive, 1967 Aug p 110

Micrometeorology, 1967 June p 135 Micromineralogy, 1955 Feb p 120 Microphotography, 1961 Feb p 159 Microphotography of tiny crustaceans, 1967

May p 142 Micropore filters, how to experiment with, 1971

Feb p 118 Microscope, electron, how to construct, 1973

Sept p 184 Microscope, homemade, 1954 June p. 98 Microscope lighting for producing color, 1968 Apr p 124

Microscope, slide preparation, 1955 Dec. p. 124 Microscope, traveling, 1954 Aug. p. 84 Microscopy, 1953 Jan. p 80, 1953 Dec. p 110 Microscopy, phase, 1955 July p. 104

Microwave holograms, how to make, 1972 Nov p 120

Millbrook School observatory, 1954 July p 92 Millikan's oil-drop experiment, 1959 May

Mineralogy, 1952 Nov p 94 Mineralogy, micro-, 1955 Feb p 120 Mirrors, grinding, 1958 Feb p 112 Modulator for light, how to construct, 1970 Nov p 120

Moire patterns, experiments with, 1964 Nov p 134

Moire patterns, techniques for generating, 1973 Oct p 120 Molecular beam apparatus, how to construct,

1970 July p 120

Molecular models, how to construct inexpensive, 1973 Feb p 110, 1976 Jan p 124

Monolayers, 1961 Sept p 261 Moon, stereo photography of, 1956 Apr p 156 Motors, electric tunnel-diode, 1965 Oct p 106, parametric, 1973 Jan p 116, asynchronous, 1975 June p 112

Motors, electrostatic, 1974 Oct p 126 Mountain geology, 1952 June p 90 Mouse, electronic, 1955 Mar p 116

NAND gates, 1973 May p 108 Negative-resistance phenomena, 1961 Aug p 143 Nitrogen laser, how to construct, 1974 June p 122

Observatory for viewing aquatic animals and plants, how to build, 1972 Oct p 114 Observatory, Millbrook School, 1954 July p 92 Observatory, report on amateur astronomical, 1970 Apr p 114 Occultation, photoelectric, 1955 Jan p 96 Operational amplifiers, 1970 May p 130, 1971

Jan p 110 Orbit of earth satellite, device for plotting, 1974 May p 126

Orbit simulator, satellite-, 1958 Oct p 130 Orbits of space vehicles, how to compute, 1969 Jan p 123

Orrery, 1955 Nov p 125 Oscillator for pendulum clock, quartz-crystal,

1974 Sept p 192. Oscillators that involve salt water, 1970 Sept

p 221, 1971 June p 124, 1977 Oct p 142 Oscillators, three novel types described, 1970 Sept p 221

Osmotic pump, 1971 Dec p 100, 1972 Apr p 106

Paleontology, 1954 Jan p 88 Paraboloids, how to construct cardboard type, 1973 Dec p 122, fiberglass type, 1974 Nov p 126 Para-Foil 1975 Mar p 118 Parametric motor, how to build, 1973 Jan p 116

Gases, how to liquefy, 1969 Nov p 151

Geiger counter, how to make, 1960 May p 189

Geissler tube, how to make, 1958 Feb p 112

Generators, electrostatic Van de Graaff, 1955

Computer that simulates Pavlov's dogs, analogue, 1963 June p 159 Computer, word, 1956 Dec p 169 Contrabarometer, how to construct, 1971 July p 110 Convection current in liquids, how to observe, 1967 Jan p 124 Cooling fluids, 1977 Sept p 246, 1977 Nov p 152 Co-operative weather observers, 1953 Oct p 114 Corrolis force, 1960 Apr p 183 Coronagraph, 1955 Sept p 194 Counter, high-speed, 1973 May p 108 Crinoids, fossil, 1956 Oct p 155 Cross-staff, how to construct, 1974 Nov p 126 Crystals, fast growing, how to observe, 1966 May p 128 Crystals, how to grow in gel, 1962 Mar p 155 Crystals, how to grow with salts, 1968 Jan p 128 Crystals, ice experiments, 1962 Dec p 161 Cube that constitutes an optical illusion, how to make, 1974 Nov p 126 Cutter, worm-gear, 1955 Dec p 124

D

Cyclotron, 1953 Sept p 154

"Dawn chorus," 1956 Jan p 120
Differential screw, 1959 Mar p 155
Diffusion cloud chamber, 1952 Sept p 179
Diffusion experiments, 1962 May p 171
Dinosaur collecting, 1959 Feb p 143
Dogs, analogue computer that simulates
Pavlov's, 1963 June p 159
Dye laser, how to make, 1970 Feb p 116

E

Earth satellite, device for plotting the orbit of,

Earthquake wayes, how to hear, 1970 Aug

1974 May p 126

p 116 Eclipse of stars by the moon, groups organized to observe, 1972 Jan p 108 Eclipse, photographing a lunar, 1960 Dec p 172 Eclipse, solar, equipment and safety procedures for viewing and photographing, 1972 May p 118 Electrets, how to make, 1960 Nov p 202, 1968 July p 122 Electric motors, how to make tunnel diode type, 1965 Oct p 106, parametric type, 1973 Jan p 116, asynchronous type, 1975 June p 112 Electric power to rotating device, how to supply, 1975 Dec p 120 Electric signals made by animals, how to detect, 1966 Feb p 120 Electric welders, how to make, 1966 Nov p 144 Electrocardiogram of water flea, how to make, 1966 Feb p 120 Electrometer, vibrating-reed, how to make, 1965 Oct p 106 Electron accelerator, how to construct, 1959 Jan p 138 Electron microscope, how to construct, 1973 Sept p 184 Electronic analogies, hydraulic, 1962 Aug

Electrophoresis, apparatus, 1955 Aug p 92, 1961 July p 162 Electrophoresis, blood-serum, 1962 June p 171 Electrophysiology, 1962 Jan p 145 Electrostatic circuits, meter that determines current in, 1973 Oct p 120 Electrostatic effects in liquids, 1967 Jan p 124 Electrostatic generators Van de Graaff, 1955 Apr p 110, 1956 Oct p 155, 1957 May p 158, 1959 Jan p 145, Kelvin, 1960 June Electrostatic motors, how to build, 1974 Oct p 126 Engines, heat rubber-band, 1956 May p 149, lighter-flint, 1959 July p 145, rubber-band (several designs), 1971 Apr p 118, world's most simple, 1971 July p 110 Engines, ruling, how to construct, 1952 July p 82, 1975 Apr p 134 Enzyme molecule, how to construct model of, 1976 Jan p 124 Enzymology, 1963 Jan p 147 Experiments, various, 1961 Apr p 177, 1965 Jan p 118, 1969 Oct p 134, 1971 Dec p 100, 1974 Nov p 126 Experiments with wind, 1971 Oct p 108 Eye movement, gyroscopic, 1954 Nov p 88

F

Films, 1961 Sept p 261 Filter for infrared, 1973 Mar p 114 Filters, how to experiment with micropore, 1971 Feb p 118 Filters, polarizing, quarter-and half-wave plates, 1977 Dec p 172, 1978 Jan p 132 Fish, tropical, 1956 Mar p 141 Flames, experiments with, 1978 Apr p 154 Flashing-light experiment, 1961 Aug p 143 Flip-flop, fluid, how to make, 1966 May p 128 Flip-flops, microelectronic, 1973 May p 108 Fluid in tank subject to reduced gravity, investigating the behavior of, 1972 Apr p 106 Fluid model for study of potential fields, 1967 Julyp 118 Fluids, cooling, 1977 Sept p 246, 1977 Nov p 152 Fog calına, 1961 Oct p 172 Fossil crinoids, 1956 Oct p 155 Fossil seeds, 1956 May p 149 Fossilides, 1961 May p 177 Foucault pendulum, how to make, 1958 June p 115, 1964 Feb p 132 Foucault-test gear, 1955 Dec p 124 Fountain, Hero's, how to make, 1966 Dec p 135 Free radicals, how to make and freeze, 1963 July Freezing water, rates of with regard to initial temperature, 1977 Sept p 246 Fruit flies, genetics of, 1965 June p 126 Fuel cell, how to make, 1967 Nov p 131

G

Galvanic cell, how to make, 1967 Nov p 131
Gas chromatograph, how to make a sensitive,
1967 Sept p 283
Gas chromatograph, how to make a simple,
1966 June p 124
Gas-discharge tubes, how to make, 1958 Feb

p 112, 1966 Aug. p 100

Apr p 110, Kelvin, 1960 June p 175 Genetics, mouse, 1952 Dec p 84 Genetics of fruit flies, 1965 June p 126 Geological stream table, 1963 Apr p 168 Geology, mountain, 1952 June p 90 Geotropism, how to experiment with, 1970 June p 141 Gibberellic acid experiments, 1958 Dec p 134 Gibberellin-like substances, extractions of, 1967 Aug p 110 Glass, how to study fracture of, 1971 Nov p 122 Glass blowing, technique explained, 1964 May p 129 Glow discharges, 1956 Feb p 130 Golf club dynamics, 1964 Jan p 131 Gravitational constant, Cavendish experiment to determine, 1963 Sept p 267 Gravitational field, simulating with soap film, 1964 Dec p 134 Gravity, experiment on response of plants to, 1970 June p 141 Gravity simulator, reduced-, 1972 Apr p 106 Green flash, solar, 1961 Jan p 177 Greenhouse for the living room, 1967 Mar p 130 Greenhouse shade that re-creates lighting of the Tropics, 1975 July p 120 Growth inhibitors, plant, 1962 Apr p 167 1964 Aug p 100 Guiding system, electronic and telescopic, 1956 June p 156 Haidinger's brush, how to see it with polarized light, 1977 Dec p 172 Hall effect, experiments with, 1965 July p 106 Hang-glider aerodynamics, 1974 Dec p 138,

Growth-promoting substances, extraction of, 1975 Aug p 116 Harmonograms, how to make, 1965 May p 128 Heat engine rubber-band, 1956 May p 149, lighter-flint, 1959 July p 145, rubber-band (several designs), 1971 Apr p 118, world's most simple, 1971 July p 110 Hele-Shaw apparatus, 1955 Oct p 124 Helium-neon laser, experiments with, 1965 Dec p 106 Helium-neon laser, how to make, 1964 Sept p 227 Hero's fountain, how to make, 1966 Dec p 135 Herpetology, 1954 Mar p 100 High altitude simulator, 1965 Sept p 239 High fidelity sound, 1956 Jan p 120 High speed cameras, construction of, 1964 July p 118 High-speed counter, 1973 May p 108 High voltage generation, 1958 Feb p 112, power supply, 1959 Sept p 249 Hilsch tube, 1958 Nov p 145 Holograms, how to make, 1967 Feb p 122. 1971 July p 110, (microwave) 1972 Nov p 120 Hummingbirds, 1957 Mar p 169, 1960 Feb p 157 Hydraulic amplifier, 1961 Apr. p. 177 Hydrodynamics of sailing craft, 1956 Aug

Hydrophone, I ow to make, 1900 Oct p 145

1964 Mar p 131, 1970 Aug p 116

p 128

-Electronic mouse, 1955 Mar p 116

Spectrophotometer, recording, how to construct, 1975 Jan. p. 118.

Spectroscopy of candle flame, 1978 Apr. p. 154. Spider webs, collecting, 1963 Feb. p. 159. Spiders, culturing and investigating their webs, 1972 Dec. 108.

Spinthariscope, 1953 Mar. p. 104. Sprengel vacuum pump, 1958 Dec. p. 134. Sputnik, telescope for, 1957 Jan. p. 144. Stereo photography of moon, 1956 Apr. p. 156. Sterilization by filtration, 1971 Feb. p. 118. Stream table, 1963 Apr. p. 168.

Stroud, Robert, 1957 Dec. p. 143. Subatomic particle scattering, how to simulate, 1965 Aug. p. 102.

Subatomic particles, how to identify by their tracks, 1965 Apr. p. 136.

Sun viewers, how to construct, 1972 May p. 118; 1974 Nov. p. 126.

Sundial, adjustable, how to make, 1967 Nov. p. 131.

Sundial, global, 1959 Aug. p. 137. Sundial, indoor, 1956 Mar. p. 141.

Sundial that keeps clock time, how to make, 1959 Oct. p. 185; 1964 Mar. p. 131.

T

Tea cup physics, 1977 Nov. p. 152.

Telemetry, bio-medical, 1968 Mar. p. 128.

Telescope drive, transistor, 1959 Oct. p. 185.

Telescope, elbow finder, 1975 June p. 112.

Telescope, electronic guiding system, 1956 June p. 156.

Telescope-focusing installation, 1974 Nov. p. 126.

Telescope, how to make a 16-inch, 1963 Aug. p. 120.

Telescope mirror, how to make of aluminium, 1963 Nov. p. 159.

Telescope, mobile installation for, 1975 July p. 120.

Telescope, report on a 16-inch, 1970 Apr. p. 114. Telescope, rich-field, 1957 Jan. p. 154.

Telescope, Schupmann-type refractor, 1958 May p. 130.

Telescope, short-focus refracting, 1955 Dec. 124.
Telescope, 6-inch reflector, 1959 Nov. p. 193.
Telescope with spherical optical surfaces, compact short-focus, 1972 Aug. p. 110.
Telescopes for viewing the sun, 1972 May p. 118.

Telescopes, radio, 1962 Feb. p. 163.
Temperature control, how to make, 1965 Oct.
p. 106.

Temperature profile of lower atmosphere demonstrated by smoke plumes, 1978 May p. 162

Theory, circular-translation, 1954 Sept. p. 172. Thermal-analysis technique, 1961 Dec. p. 161. Thermal engine, how to construct a simple, 1971 July p. 110.

Thermometers, electronic, 1972 June p. 122. Thin films of metals, how to make, 1967 Oct. p. 134.

Thin-layer chromatography, technique of, 1969 Mar. p. 124; 1976 Feb. p. 128.

Thunderstorm, construction of instrument for detecting and tracking, 1963 May p. 167. Thyroid gland experiments, 1959 Dec. p. 179. Tiltmeter that serves as seismometer, sensitive

mercury, 1973 Nov. p. 124.

Time-switch, solid state, 1968 Feb. p. 124.
Tissue culture, technique of, 1966 Apr. p. 122.
Tornado, how to create a miniature, 1971 Oct.
p. 108.

Tranquilizers, experiments, 1959 Sept. p. 249.
Transistor radio modified for experiments,
1973 Jan. p. 116.

Transistors, how to make thin film, 1970 June p 141.

Traveling microscope, 1954 Aug. p. 84.
Tropical fish, 1956 Mar. p. 141.
Tube, Hilsch, 1958 Nov. p. 145.
Tubes are displayed 1958 Feb. p. 112.

Tubes, gas-discharge, 1958 Feb. p. 112; 1966 Aug. p. 100.

Tunnel-diode clock, 1963 Mar. p. 157. Turbidimeter, dual-beam, how to construct, 1973 June p. 112.

Turbine, mechanochemical, how to construct, 1973 Apr. p. 112.

Tyndall scattering of light by droplets over coffee, 1977 Nov. p. 152.

II

Ultraviolet, gas laser that emits pulses in the, 1974 June p. 122.

Ultraviolet spectrograph, construction of, 1968 Oct. p. 126.

Underwater periscope, 1961 Feb. p. 159. Underwater sound, hydrophone for detecting, 1960 Oct. p. 185; 1964 Mar. p. 131; 1970 Aug. p. 116.

Underwater sound, pitch of depending on bubbles, 1977 Nov. p. 152.

V

Vacuum, leak detection in, 1961 Feb. p. 159. Vacuum pump, Sprengel, 1958 Dec. p. 134. Vacuum pumps, 1960 Mar. p. 187. Valveless pump, how to make, 1965 Jan. p. 118. Van de Graaff generator, 1955 Apr. p. 110; 1956 Oct. p. 155; 1957 May p. 158; 1959 Jan. p. 145.

Vapor pressure, how to measure, 1970 Dec. p. 116.

Visual illusions, how to create, 1971 Mar. p. 110; 1974 Nov. p. 126; 1978 Mar. p. 142. Visual latency, experiments with, 1978 Mar. p. 142. Voiceprints of birdsongs, how to record, 1974 Feb. p. 110.

Voltage, high: generation, 1958 Feb. p. 112; power supply, 1959 Sept. p. 249. Vortex columns in swirling coffee, 1977 Nov.

p. 152. Vortex rings, how to experiment with, 1965 Jan.

Vortexes in water and flame, how to make and investigate, 1963 Oct. p. 133.

Vortexes that form around cylinder, wind tunnel to study, 1972 July p. 106.

W

Walking on hot coals, 1977 Aug. p. 126.
Water droplets that float on water, 1973 Aug.
p. 104; 1978 June p. 151.

Water drops on hot surface, measuring lifetimes of, 1977 Aug. p. 126.

Water, experiments on freezing, 1977 Sept. p. 246.

Water flea, electrocardiogram of, 1966 Feb. p. 120:

Water glass inverted without spilling, 1977 Oct. p. 142.

Water pollution, how to test for, 1970 Mar.
p. 131; 1971 Feb. p. 118; 1973 June p. 112.
Wave machine for simulating marine surf,
how to make, 1968 Dec. p. 116.
Waves studied in ripple tank, 1962 Oct. p. 144.
Weather forecasting: sferics counter, 1959 Mar.

p. 155. Weather observers, co-operative, 1953 Oct.

p. 114.

Weather-satellite recorder, how to construct, 1974 Jan. p. 114; 1975 Dec. p. 120. Weather station, how to build, 1972 June p. 122. Webs, spider, 1963 Feb. p. 159; 1972 Dec. p. 108.

Welders, how to make electric, 1966 Nov. p. 144.

Wilson cloud chamber, 1956 Apr. p. 156. Wind speed, how to measure, 1971 Oct. p. 108. Wind tunnel, low-speed, 1953 Apr. p. 112. Wind tunnel, smoke, 1955 May p. 118; 1955 Oct. p. 124.

Wind tunnel, supersonic, how to build, 1966 Oct. p. 120.

Wind tunnel to study vortexes that form around cylinder, 1972 July p. 106. Wind vane, 1972 June p. 122.

Worm-gear cutter, 1955 Dec. p. 124.

X

X-ray, homemade, 1956 July p. 135.

Pavlov's dogs, analogue computer that simulates, 1963 June p 159 Pendulum clock, 1960 July p 165, 1960 Aug p 158 Pendulum clock equipped with quartz-crystal oscillator, 1974 Sept p 192 Pendulum, Foucault, how to make, 1958 June p 115, 1964 Feb p 132 Pendulum illusion, Pulfrich, 1978 Mar p 142 Pendulums, folded types, 1967 Apr p 124 Pen recorder, how to make, 1955 Nov p 125 1966 July p 114, 1970 May p 130, 1972 Mar p 114 Perception, visual, how to experiment with, 1971 Mar p 110, 1974 Nov p 126, 1978 Mar p 142 Periscope, underwater, 1961 Feb p 159 pH meter, how to make, 1968 Sept p 232 Phase microscopy, 1955 July p 104 Photoelectric occultation, 1955 Jan p 96 Photography of the deep-sky, 1965 Dec p 106. 1969 Aug p 124, 1973 Dec p 122, 1975 June p 112 Photography of a lunar reclipse, 1960 Dec p 172 Photography of a solar eclipse, 1972 May p 118 Photography of the moon, stereo, 1956 Apr p 156 Photography, schlieren in color, 1971 May p 118, 1974 Aug p 104 Photography, solar, 1957 Oct p 14 Photometry, astro-, 1954 Feb p 100 Photopolymerization, how to perform, 1969 Dec p 128 Phototaxis, demonstrations of, 1964 Oct p 128 Piezoelectric clock, 1957 Sept p 233 Pigeons, color vision of, 1970 Oct p 124 Pircuits, 1955 Mar p 116 Planetary alignments, how to predict, 1975 Aug Planimeter, how to make, 1958 Aug p 107 Planimeter, pocket-knife, 1958 Nov p 145 Plant growth, effects of gravity on, 1970 June Plant-growth inhibitor, 1962 Apr p 167 Plant growth, stimulating with ultrasonic vibrations, 1966 Aug p 100 Plants, sensitive, 1961 Mar p 181 Plasma jet, 1961 Nov p 173 Plastic bubbles that survive for years, how to blow, 1973 July p 110 Plumes from chimneys, behavior of smoke, 1978 May p 162 Pockels effect, 1962 July p 156 Polariscope, how to make, 1974 July p 122, (a simple design) 1975 June p 174 Polarized light, how to study, 1977 Dec p 172, 1978 Jan p 132 Polarograph, 1962 Sept p 247 Pond life, how to study, 1970 Mar p 131 Power supply, high-voltage, 1959 Sept p 249 Power to a rotating device, how to supply electric, 1975 Dec p 120 Prism, liquid, 1955 June p 122 Proton accelerator, how to construct, 1971 Aug Ptyalin, enzyme, 1963 Jan p 147 Pulfrich pendulum illusion, 1978 Mar p 142 Pump, osmotic, 1971 Dec p 100, 1972 Apr Pump, Sprengel vacuum, 1958 Dec p 134 Pump, valveless, how to make, 1965 Jan p 118 Pumps, vacuum, 1960 Mar p 187

Quartz-crystal clock, 1957 Sept p 233, 1961 June p 181 Quartz-crystal oscillator for pendulum clock, 1974 Sept p 192

Radio (transistor type) modified for experiments, 1973 Jan p 116 Radio telescopes, 1962 Feb p 163 Radio waves and sound waves recorded on film by precooling process, 1972 Nov p 120 Radiocarbon dating, 1957 Feb p 159 Radioisotopes, 1960 May p 189 Rain gauge, how to make, 1966 May p 128 Rain, study of salty, 1966 Dec p 135 Rainbows, how to make, 1977 July p 138 Raindrops, how to study, 1965 Aug p 102 Rainfall, study to measure acidity of, 1974 June p 122 Rayleigh-Taylor instability, observed in the salt oscillator, 1977 Oct p 142 Recorder, weather-satellite, how to construct, 1974 Jan p 114, 1975 Dec p 120 Recorders, pen, 1955 Nov p 125, 1966 July p 114, 1970 May p 130, 1972 Mar p 114 Recording spectrophotometer, how to construct, **1**975 Jan p 118 Reduced-gravity simulator, 1972 Apr p 106 Refractometer, how to make, 1975 May p 109 Refrigeration machines, how to make, 1969 Nov p 151 Reptiles, care of, 1959 July p 145 Retina patterns, 1958 Jan p 98 Ripple tank, 1962 Oct p 144 Rockets, 1957 June p 174 Rotating device, how to supply electric power to, 1975 Dec p 120 Rubber band heat engine, how to make, 1956 May p 149, 1971 Apr p 118 Rubber experiments, 1960 June p 175 Ruling engines, 1952 July p 82, 1975 Apr

p 134

Sailboat hydrodynamics, 1956 Aug p 128 Sailboat without a hull, 1975 Mar p 118 Salt fingers, how to make, 1971 June p 124, 1977 Oct p 142 Salt fountains, how to make and experiment with, 1971 June p 124, 1977 Oct p 142 Salty rain, study of, 1966 Dec p 135 Satellite, artificial, telescope for, 1957 Jan p 144 Satellite, device for plotting the orbit of earth, 1974 May p 126 Satellite orbit simulator, 1958 Oct p 130 Satellite recorder, weather-, how to construct, 1974 Jan p 114, 1975 Dec p 120 Satellites, how to track artificial, 1958 Jan p 98, 1958 Oct p 130 Schlieren photography, how to perform, 1971 May p 118, 1974 Aug p 104 Scintillation counter, 1953 Mar p 104 Sea-water aquariums, 1962 Nov p 169 Sea water, instabilities in, 1971 June p 124 Secondary flow, observed in tea and rivers, 1977 Nov p 152

p 120

p 140

Spectrophotometer construction of 1963 Mar

Seismograph, 1953 June p 114, 1957 July p 152, 1970 Aug p 116 Seismograph, well-water, 1961 May p 177 Seismology, 1952 Apr p 94 Seismometer, how to construct a sensitive, 1975 Sept p 182 Seismometer, sensitive mercury tiltmeter that serves as, 1973 Nov p 124 Series interferometer, how to make, 1964 June p. 122 Sferics recording, 1959 Mar p 155 Simulator, chromatograph, 1972 Feb p 106 Simulator, high altitude, 1965 Sept p 239 Simulator, reduced-gravity, 1972 Apr p 106 Simulator, satellite-orbit, 1958 Oct p 130 Skin diving, 1953 Aug p 94 Skinner box constructed for testing color vision of pigeons, 1970 Oct p 124, training small animals, 1975 Nov p 128 Skipping stone, analysis of, 1968 Aug p 112 Skipping stone experiment, 1957 Apr p 175 Sky, photography of the deep-, 1965 Dec p 106 Slide preparation, microscope, 1955 Dec p 124 Slime molds, how to cultivate and study, 1966 Jan p 116 Smog calina, 1961 Oct p 172 Smoke plumes from chimneys, behavior of 1978 May p 162 Smoke wind tunnel, 1955 May p 118, 1955 Oct p 124 Snails in the home, how to raise, 1975 Feb p 104 Snowflakes, how to catch and preserve, 1966 Mar p 120 Snowflakes, how to study, 1965 Aug p 102 Soap bubbles, how to blow long-lived, 1969 May p 128 Soil antibiotics, how to extract, 1965 Nov p 124 Solar eclipse, equipment and safety procedures for viewing and photographing, 1972 May Solar-flare detector, 1960 Sept p 231 Solar photography, 1957 Oct p 141 Solar system, model, 1955 Nov p 125 Sound, high-fidelity, 1956 Jan p 120 Sound into heat, conversion of, 1968 Aug p 112 Sound, underwater, hydrophone for detecting. 1960 Oct p 185, 1964 Mar p 131, 1970 Aug Sound, underwater, pitch of depending on bubbles, 1977 Nov p 152 Sound waves and radio waves recorded on film by precooling process, 1972 Nov p 120 Sow bug, how to study learning in the, 1967 May p 142 Sparks, high energy, 1957 Nov p 148 Spectrograph, astronomical, 1956 Sept p 259 Spectrograph, auroral, 1961 Jan p 177 Spectrograph, Bunsen's, 1955 June p 122 Spectrograph how to make a diffraction grating type 1966 Sept p 277 Spectrograph ultraviolet, construction of 1968 Oct p 126 Spectroheliograph, how to make, 1958 Apr p 126 Spectrohelioscope how to construct 1974 Mar p 110 Spectrometer beta ray 1958 Sept p 197 Spectrometer magnetic resonance 1959 Apr p 171 Spectrometer mass how to construct 1970 July

SCIENTIFIC AMERICAN

Index to Proper Names

A

Aa, H H M van der, 1965 Apr p 125 A.A.A.S, see American Association for the Advancement of Science Aaboe, Asger, 1974 Sept. p 72 Aachen Technical University, 1975 Jan. p 44 Aalto, Pentti, 1969 Nov p 62 Aamodt, R. L., 1957 Oct p 57 Aarhus Prehistoric Museum, 1960 Oct p 63 Aaron, Benjamin, 1966 Mar p 55 Aaron, Jean, 1975 July p 74 Abasand Oils Limited, 1949 May p 53, 54 Abbas the Great, Shah, 1968 Apr p 100 Abbe, Cleveland, 1956 Apr p 53 Abbe, Ernst, 1961 Jan p 101, 1966 Nov p 83, 1976 Aug. p 75, 77 Abbot, Charles G, 1955 Oct p 46 Abbott, Edwin, 1973 May p 30 Abbott, Elihu, 1972 Aug. p 27 Abbott Laboratories, 1951 Sept p 50 Abbott, Ursula K., 1975 Feb p 43 Abboud, Francois, 1968 Feb p 93 Abdalla, A., 1969 Dec. p 55 Abd al-Rahman, Umar al-Sufi, 1973 June p 30 Abdel-Malak, Sami H., 1975 Mar p 96 Abdullahibn-Tahir, 1968 Apr p 96 Abegglen, James C. 1970 Mar p 31 Abel, I W , 1971 Mar p 44 Abel, John J., 1954 Aug. p 26, 1961 July p 58, 61, 1974 June p 59 Abel, Niels H , 1964 Sept. p 45, 1977 July p 125 130 Abel, Rudolf, 1966 July p 43, 45 Abele, J., 1957 Mar p 51 Abelev, Garn I, 1977 May p 66 Abell George O, 1959 July p 68 Abell, Paul I , 1972 Oct p 83 Abell, Rollin 1950 Feb p 19 Abella, Isaac D., 1968 Apr. p. 37 Abelson Philip H. 1950 Apr p 45, 46, 1958 Feb p 78 1964 Dec p 62, 1967 Jan p 32 Abererombie Michael, 1969 June p 49, 1971 Oct p 77 Aberle, Sophie B. D., 1950 Dec. p. 26 Abernathy Robert S., 1952 Apr. p. 86, 1964 Mar p 44, 45 Ables J G , 1971 Dec p 27 Alcla, L. L. 1977 Jan p 53 About, I discid 19% June p 114 Ah will a Charist de 1963 Sont in 173

Abplanalp, Hans, 1966 July p 64 Abragam, A , 1966 July p 72, 74 Abraham, B M., 1949 June p 37, 1958 June p 35 Abraham, Henri, 1973 June p 46 Abraham, Karl, 1949 Oct. p 52, 1954 Nov Abraham, R., 1956 Nov p 124 Abrams, Adolph, 1952 Oct p 34 Abrams, Charles, 1965 Sept. p 94, 196 Abramson, Harold A., 1951 Dec p 45 Abreu, Rosalia d', 1955 Feb p 68, 69, 74 Abrikosov, A A, 1965 Oct. p 60, 61, 1967 Mar p 117, 118, 1971 Mar p 80, 81, 83 Abt, Helmut A, 1955 May p 44-46, 1975 Sept p 30, 1977 Apr p 96 Abu Ja'far Mohammed ibn Mûsa al-Khowarizmi, 1977 Apr p 63 Academia Sinica, see People's Republic of China Academia Sinica. Academie des Sciences, see French Academy of Acheson, Dean, 1949 Nov p 11, 12, 1950 Mar p 26, 1952 Mar p 35 Achter, M R., 1957 May p 106 Acker, Robert F, 1960 June p 132, 1966 Nov p 78 Ackerman, C C, 1967 Aug. p 89 Ackermann, William C, 1963 Oct. p 58 Acoustical Society of America, 1949 Apr p 27, 1969 Dec p 54 Acres, R. d', 1964 Jan p 100 Acs, George, 1965 June p 43 Ada, Gordon L., 1951 Dec p 45, 1957 Feb p 37, 1964 Dec. p 114, 1973 July p 59 Adair, Gilbert S. 1971 Feb p 91, 93, 94 Adair, Robert K., 1964 June p 55 Adam, Gerold, 1974 July p 32 Adam, N. K., 1961 Mar p. 152 Adamant Research Laboratories, 1965 May p 40 Adams, B. A., 1950 Nov. p. 49 Adams, Crawford, 1965 July p. 70 Adams, Ernst W., 1962 Nov p. 72, 1964 Feb p 52, 54-57 Adams, Henry, 1974 Sept. p. 174 Adams J R., 1978 Jan p 36 Adams, Jerry, 1968 Jan. p. 38 Adams, John, 1924 Oct. p. 73, 1957 Nov. p. 47. 1960 Feb p 66, 1975 Jan. p 27

Adams, John B., 1970 Aug. p. 46

p 164, 1975 Sept p 131 Adams, John M , 1969 Nov p 58, 1974 Feb p 35 Adams, John Q, 1970 July p 18, 1976 June p 21 Adams, Lawrence, 1967 May p 103 Adams, Phillip A., 1972 June p 73 Adams, R. D., 1973 Mar p 28, 33 Adams, Richard A., 1963 Jan p 119 Adams, Robert M., 1960 Sept. p 148 Adams, Roger, 1949 Feb p 29, 1951 Feb p 30 Adams, Sherman, 1956 May p 55, Oct. p 68 Adams, W Bridges, 1975 July p 50, 52 Adams, Walter S, 1961 Apr p 69, 71, 1975 Sept p 74, 1977 Oct. p 47 Adamson, Jack, 1949 June p 50 Adanson, Michel, 1950 Feb p 41; 1960 Oct Addams, Charles, 1956 Feb p 32, 33, 35 Addams, R., 1977 Jan. p 60 Addicott, Frederick T, 1968 July p 77 Addison, Joseph, 1951 Sept. p 67, Oct p 57 Adel, Arthur, 1965 Aug. p 23, 1975 Sept p 74 Adelard of Bath, 1978 Jan p 68 Adelberg, Edward A., 1961 June p 104 Adelman, Albert H, 1968 Sept p 164 Ader, Clement, 1961 Aug. p 82 Adler, Alfred, 1948 Nov p 17, 1951 May p 60, 1968 Feb p 96 Adler, David, 1977 May p 36 Adler, George, 1959 Sept p 182. Adler, Howard I 1967 Feb p 38 Adler, Jim, 1976 June p 111 Adler, Julius, 1968 Oct p 68, 1975 Aug p 38, 42 Adler, Stephen L., 1967 Nov p 59, 1975 Oct p 44 Adloff, J. P., 1968 Oct. p. 52 Adolph, E. F., 1958 Nov p. 130 Adolphus, Gustavus, 1973 Dec p 88 99 Adovasio, James, 1977 June p 61 Adran, G. M., 1952 July p. 73 Admaanse, Father Aloys, 1963 Apr. p. 150 Adrian, Edgar D, Lord, 1948 Oct. p 34, 1950 Sept. p 76, 1952 May p 30, Nov p 57, 1954 June p 55, Nov p 48, 1956 Mar p 52, Dec p 115, 1958 Apr p 104, 1960 Aug. p 102, 1961 May p. 137, 144 Sept. p. 223, 1966 May p 103, 1967 Nov p 27, 1972 June p 92, Adrian, P. A., 1967 Aug. p. 57

Adams, John C, 1959 Apr p 86, 1966 Sept

	,		

Allard, H A, 1952 May p 50, 51, 1960 Dec Allbutt, Thomas C, Sir, 1957 Jan p 70, 1971 Jan p 102 Allcock, G McK., 1956 Jan p 37 Allee, W C, 1950 Apr p 54, 55, 1956 Feb p 43 Allegheny Ludlum Steel Corporation, 1963 Dec p 76, 79, 88 Allen, Augustine, 1967 Feb p 80 Allen, Bennett M., 1961 July p. 101, 1963 Nov p 110, 1966 May p 77 Allen, Bryan, 1977 Oct. p 79 Allen, C W, 1955 Feb p 43, 44, 1960 July p 61, 62, 1971 Dec p 21 Allen, David, 1975 Jan p 28 Allen, Esther, 1958 Dec p 56 Allen, Floyd P, 1961 July p 101, 1965 July p 53 Allen, H Julian, 1960 Oct p 135 Allen, J A, 1977 June p 48 Allen, J Denton, 1966 Apr p 57 Allen, J M V, 1976 May p 30, 33 Allen, J S, 1974 Aug. p 95 Allen, James A van, 1959 Aug p 42 Allen, John S., 1977 Nov p 150 Allen, K Radway, 1966 Aug p 17 Allen, L. R., 1961 Feb p 76, 1963 Dec p 56 Allen, Mark A, 1974 May p 112 Allen, Mary B, 1960 Nov p 105 Allen, Paul H, 1966 Jan p 74 Allen, Robert D., 1961 Sept. p. 184, 189, 1962 Feb p 113, 114, 120 Allen, T K., 1967 July p 83 Allen, Willard M , 1958 Apr p 41 Allen, William W., 1954 June p. 38, 1956 Aug p 99 Allende, Salvador, 1976 June p 27 Allentuck, Samuel 1969 Dec p 24, 25 Aller, Lawrence A 1959 June p 59, 1963 Apr p 65 Aller Lawrence H 1961 June p 114, 1964 Jan Allerhand Jona, 1964 Oct p 80 Alley Carroll O Jr 1970 Mar p 38, 41 Allfrey Vincent G, 1953 Feb p 52, 1958 Dec p 63, 1962 May p 78, 1975 Feb p 48 49, 52, Allibone T E. 1949 Feb p 23 Allied Chemical and Dye Corporation, 1955 July p 63, 1976 Dec p 37 Allied General Nuclear Services 1976 Jan p 56 Dec p 30 34 37 38 40 Allunger Norman L 1976 Feb p 112 113 Allis Chalmers Manufacturing Company 1968 Jan p 32 35 Allison Anthony C 1954 Apr p 52, 1956 Oct p 86 Dec p 62 1958 lan p 68 1960 Sept p 207 Dec p 102 1961 May p 52 57 Allison Franklin L. 1961 June p. 139 Allison Samuel K. 1949 Nov p. 27, 1952 Mar p 35 June p 36 Allowas James L. 1953 Feb p 50 Allport Gordon W 1948 Oct p 25 1974 Dec p 26 Almeida June D. 1964 Dec. p. 114-1977 Jan p 40 July p 46 Almond Richard 1971 Mar p 34 Moe Co A S 1952 Apr p 60 Upon Chester 1973 Nov p 65 Alper Andrea 1974 Dec p 28 Mpcr 1 1959 Sept p 93 Vpert Augusta 1949 Aug p 38 Mpett Daniel 1955 I ch p 52, 1962 Mar p 78 Prent 2 2 1903 Sept p 124

p 54, 1954 Mar p 62, 63, 1956 Sept p 82, 87, 1967 June p 36, 1974 May p 108, 1978 May p 66 al-Sa'ati, Ibn. 1970 Oct p 114 Alsop, Joseph, 1950 Mar p 24, 1954 Nov p 48, 1955 Jan p 42, 1960 June p 80 Alsop, Leonard E, 1961 May p 61, 1969 Dec p 93 Alsop, Stewart, 1950 Mar p 24, 1953 Jan p 30, 1954 May p 48, Nov p 48, 1955 Jan Alston, Margaret, 1963 Jan p 40 Alston, Ralph, 1964 June p 87 Alt, Jan, 1962 Sept p 88, 92 Altamirano, Mario, 1960 Oct p 119, 121, 1966 Mar p 78 Altenhoff, Wilhelm J. 1973 Mar p 56 Alter, Dinsmore, 1959 Apr p 93 Alter, H W, 1969 June p 39 Alter, Milton, 1970 July p 42, 43 Altheim, Franz, 1962 Feb p 87 Altherr, Edmund, 1973 Dec p 64 Altman, Lawrence K, 1973 Sept p 66 Altmann, Richard, 1968 June p 81 Altmann, Stuart A, 1972 Sept p 60 Alischul, Siri von Reis, 1977 May p 96 Altschule, Mark D, 1965 July p 32, 55 Al'tschuler, L V, 1965 June p 106, 108 Altschuler, Martin D, 1973 Oct p 75 Alvager, Torsten, 1970 Feb p 72, 76 Alvares, Alvito P, 1975 June p 22, 1976 Mar p 31 Alvarez, Luis W., 1948 June p. 34, Aug. p. 52, 1949 Mar p 33, 1951 Nov p 33, 1954 Jan p 40, Oct p 43, 1955 Feb p 46, 50, 1957 Feb p 62, 1958 Feb p 40, 1959 Mar p 72, Apr p 68, 1961 Nov p 80, 1963 Jan p 39, 40, 43, 45, 1968 June p 56, Dec p 48, 1969 July p 32, 1970 Aug. p 26, 27, 1975 Apr p 42, Oct p 107, 1978 May p 70, June p 70 Alvis, Max, 1977 May p. 121 Alwall Nils, 1961 July p 61 Aly, M K M, 1960 July p 58 Amaldi Eduardo, 1953 Oct p 51, 1954 Sept p 74, 1956 June p 41, 1958 Feb p 77 Amaldi, Ugo 1974 Feb p 79 Amano Tsunehisa, 1959 June p 82, 1973 Nov p 64 Amaryntas 1972 Oct p 37 Amati, Andrea, 1962 Nov p 79 Ambache, N. 1968 Apr p 73 Ambartsumian, Victor A., 1953 Mar p 35 36, 1956 Feb p 36, 39, 1961 Feb p 54, Sept p 88, 1964 Aug p 18, 1970 June p 35, 1972 Aug. p 60 Ambartzumian, R. V. 1977 Feb p 96 Ambedkar B R., 1965 Dec p 15 16 Ambler Ernest 1965 Dec p 28 32 Ambroggi, Robert P 1966 May p 21, 1973 Apr p 56 60, 1977 May p 21 Amdur, I., 1968 Oct p 51 Amdur, Mary O 1961 Oct p 54 Ameghino Carlos 1967 Nov p 44 Ameghino Florentino 1967 Nov p 44 Amelinckx, S 1960 July p 67, 69, 1961 Oct Amelineau Emile Clement, 1957 July p. 106 Amendolia S R 1973 Nov p 42 Amenhotep 1963 Nov p 123 Amenhotep III 1978 Mar p 74 American Academy of Arts and Sciences 1949 Mar p 24, 1957 Nov p 47, 1960 Oct p 159, American Academy of Ophtalmology and Otoliningology 1977 June p 104

American Academy of Pediatrics 1949 May

p 2x 1959 Jan p 43

9 Mar

American Academy of Political Science, 1949 Sept p 29 American Airlines, Inc., 1966 Sept p 199, 1970 Mar p 84 American Anthropological Association, 1948 Dec p 13, 1971 May p 45, 46, 1972 Jan. p 47 American Association for Public Opinion Research, 1950 Nov p 13 American Association for the Advancement of Science, 1948 Aug p 31, 32, Oct p 24, 1949 Feb p 29, Oct p 27, 1950 Feb p 24, 1951 Feb p 30, 1952 Feb p 30,31, Mar p 35, 1953 Feb p 34, May p 54, 1954 Feb p 43, 42, 1955 Feb p 52, Apr p 48, June p 48, Aug. p 48, Sept p 78, 1956 Feb p 48, Mar p 52, 1957 Feb p 58, 1958 Feb p 42, May p 51, 1960 Feb p 66, Sept p 98, 1961 Feb p 66, 1962 Feb p 72, 1965 Feb p 50, 1970 Feb p 42, July p 48, 1971 Feb p 44, 1973 Nov p 47, 1976 Nov p 64, 1977 Aug p 52, 1978 June p 88 American Association of Petroleum Geologists, 1948 Dec p 26, 1949 Feb p 29, 1975 Feb p 94,97 American Association of Physical Anthropologists, 1956 Feb p 48 American Association of Physics Teachers, 1958 Apr p 64 American Association of Variable Star Observers, 1962 Apr p 59 American Astronomical Society, 1977 Oct p 54 American Biological Institute, 1948 Dec. p. 26 American Blue Cross, 1970 Apr p 18 American Blue Cross and Blue Shield, 1949 June p 12, 14, 15, 1966 Sept p 100 American Book Center for War Devastated Libraries, Inc., 1948 Nov p 25 American Cable and Radio Corporation, 1961 Sept p 84 American Can Company, 1971 Nov p 94 American Cancer Society, 1948 Oct p 25, 1951 May p 36, 1953 Sept p 73, 1954 Aug. p 37, 1962 July p 40, 41, 43, 1964 May p 91, 1968 Apr p 44 American Chemical Society, 1948 July p. 31, Aug. p 32, 1949 Feb p 29, Aug p 25, 1951 Oct p 33, 1952 Nov p 46, 1953 July p 48, Nov p 56, 1954 June p 46, Aug p 38, Sept p 118, Nov p 48, 1955 Dec p 50, 1956 Sept p 112, 1957 Nov p 70, 1965 Oct p 32, 1966 Aug p 92, 1970 May p 23 American Civil Liberties Union, 1966 Sept p 72, 1977 Dec p 87 American College of Cardiology, 1957 May p 84 American College of Surgeons, 1973 Sept p 95, American Council of Learned Societies 1948 Dec p 13, 1950 Jan p 48, 1954 Sept p 70 American Council on Education, 1953 May p 53, 1977 Oct p 36 American Cyanamid Company, 1949 May p 28, 1950 Dec p 50, 1953 May p 33, 35, 1963 July p 51, 1965 Aug. p 46 American Dental Association, 1950 Sept. p. 50 American Federation of Information Processing Societies 1966 Sept p 67 American Forestry Association, 1975 July p. 99 American Gas and Electric Company, 1953 July p 42, 1964 May p 39, 40 American Gas Association, 1973 Jun. p. 14 American Geographical Society, 1953 Feb p 24-26 O.L.p 52 1960 May p 165 1970 June p 105 American Geological Society, 1949 Dec. p. 26

Advanced Metals Research Corporation, 1963 Nov p 129 Aepinus, Franz, 1976 May p 90 Aerni, Gerda, 1963 Mar p 141 Aero Research Ltd, 1962 Apr p Aero Service Corporation, 1949 Dec p 45, 1961 June p 156, 1971 Sept p 61 Aerojet Engineering Corporation, 1949 May Aerojet-General Corporation, 1961 Oct p 67 Aerospace Corporation, 1963 May p 87, 1966 Nov p 60, Dec p 46, 1972 Aug p 44, 1975 Sept p 16, 1977 June p 77, Dec p 140 Aeschylus, 1961 Mar p 113, 1972 Dec p 91 Aesop, 1957 Oct p 83, 1972 Sept p 94 Aethelhere, King of Anglia, 1951 Apr p 27 Aetius, 1949 Nov p 49 African Development Bank, 1976 Sept p 38 Africanus, Leo, 1970 May p 63 Afzelius, Bjorn A, 1959 July p 125, 1976 Sept p 68 AGA Aktiebolag, 1967 Feb p 102 Agamemnon, 1954 May p 74, 1958 May p 118 Agard, David A, 1977 Feb p 112 Agarwal, J C, 1968 Aug p 46 Agassız, Alexander, 1948 May p 12, 1949 July p 48, 1950 Aug p 44, 1953 May p 94, 1959 Nov p 175, 1960 Oct p 99, Dec p 64, 1961 Dec p 52 Agassiz, Louis, 1949 July p 48-51, Sept p 13, 15, Dec p 56, 1956 Feb p 62, 1958 Nov p 115, 1959 Aug p 103, 1964 Aug p 28 Agathocles of Syracuse, 1973 Oct p 39 Agathon, 1966 Dec p 99 Aggarwal, Y P, 1975 May p 17, 23 Aghion, A, 1973 Aug p 89 Agnew, Harold M, 1973 Oct p 47, 1976 Sept p 66 Agostine, Emilio, 1960 Jan p 144, 1963 Oct p 28 Agranoff, Bernard W, 1966 Aug p 42 Agricola, Georgius, 1948 July p 46, 1951 Feb p 46, 47, 1964 Jan p 98, 100, 104, 1967 Sept p 71, 74, 1970 Aug p 98, 1971 Oct p 96, 97, 1976 July p 68, 1977 Nov p 141, 147 Agricola, Gnaeus J, 1952 Oct p 76 Agricola, Julius, 1977 Feb p 39, 40 Agricola, Martin, 1967 Dec p 97 Agrippa, Camillo, 1951 June p 58 Agrippa, Marcus V, 1950 Aug p 49, 1954 Nov p 102, 1963 Dec p 115, 118, 119, 121 Aguilar, Geronimo de, 1975 Oct p 81 Aguillion, François d', 1961 Mar p 139 Ah, Basilio, 1972 May p 84, 1977 Mar p 122 Aharoni, I , 1963 Jan p 118, 122 Ahlberg, C F, 1965 Sept p 72 Ahlmann, Hans W, 1955 Sept p 90 Ahlquist, Raymond P, 1968 Feb p 86 Ahmadjian, Vernon, 1971 Aug p 49 A'h-mose, 1952 Aug p 24, 25 Aigrain, Pierre, 1963 Nov p 51 Aiken, Howard H, 1966 Sept p 67 Air, Gillian M, 1977 Dec p 56 Air King International Corporation, 1951 July p 28 Air Navigation Development Board 1949 Apr Air Reduction Company, 1953 May p 35 Airborne Instruments Laboratory, Inc., 1952 June p 65 Airflow Club of America, 1977 Aug. p 106 Airy, George B, Sir, 1950 May p 35, 1955 June p 62, 1959 Aug p 75, 1968 Sept p 101, 1971 May p 89, 90, 1977 Apr p 121-124, Airy, Hubert, 1971 May p 88, 90 Aisenberg, M. S., 1948 Oct. p. 22.

Assupiet, M P, 1974 Dec p 46 Aitekeeva, Z A, 1975 Sept p 149 Aiyangar, see Ramanujan, Srinivasa Aiyar, P V Seshu, 1948 June p 54, 56 Ajl, Samuel J, 1969 Mar p 93 Ajzenberg-Selove, Fay, 1968 May p 21 Akasofu, Syun-Ichi, 1965 Mar p 67 Akeley, Carl E, 1950 Apr p 54 Aketa, Kenji, 1977 Nov p 129 Akhiezer, A I, 1963 June p 62 Akı, Keutı, 1977 Dec p 74 Akıba, Tomoichiro, 1967 Dec p 20 Akre, Roger D, 1972 Nov p 76 Aksakov, Aleksandr, 1978 June p 88 Aksamıt, Robert, 1976 Apr p 44 Akulov, V P, 1954 Sept p 82, 1978 Feb p 136, 138 Akutsu, K, 1972 Feb p 85 Alabama Power Company, 1948 Aug p 32, 1950 June p 52 al-Asıl, Najı, 1950 Mar p 28 Alaskan Air Command, 1949 Jan p 48 Alatıf, 1977 Jan p 108 Albano, Pietro d', 1967 Dec p 95 Albe, E E Fournier d', 1977 Nov p 90 Albee, George W, 1957 May p 70 Albers, Joseph, 1974 July p 103, 104 Albersheim, Peter, 1975 Apr p 81 Albert, Adrian, 1966 May p 49 Albert Einstein College of Medicine, 1962 May p 152, 1963 Apr p 107, 114, 128, May p 67, Nov p 110, 1964 July p 79, Aug p 64, Nov p 75, 1966 May p 77, 80, 88, 1970 July p 41, 46, 1977 Oct p 99, 1978 Apr p 62, 65, 67 Albert Einstein Medical Center, 1969 Mar p 93 Albert, Martin, 1972 Apr p 76 Albert, Prince of Saxe-Coburg-Gotha, 1959 Nov p 174, 1965 Aug p 90 Albert R Brand Bird Song Foundation, 1950 May p 46 Albert, Roy E, 1977 Feb p 83 Alberta Oil and Gas Conservation Board, 1966 Alberta Research Council, 1948 Nov p 24, 1949 May p 53, 55, 1966 Feb p 21, 1967 Jan p 70 Alberti, Leon B, 1966 July p 41, 43, 1967 Dec p 97, 103 Alberto, Alvaro, 1952 Mar p 35 Alberts, Bruce M, 1975 Feb p 51 Alberty, Robert A, 1955 May p 54 Albrecht-Buehler, Guenter, 1977 Sept p 104, 1978 Apr p 69 Albright, Darryl L, 1967 Feb p 88, 90-92 Albright, Frank P, 1969 Dec p 39 Albright, John T, 1957 Dec p 109 Albright, William F 1954 Apr p 77, 1969 Dec p 36 Albritton, Claude C, 1961 Aug p 54 Albumazar, Giafar B M, 1964 June p 42 Alburger, David E., 1978 June p 72 Alburn, Harvey E, 1966 Dec p 65 Albus James S 1976 Fcb p 83, 1978 Fcb p 64 ALCOA 1955 Feb p 38 1973 Oct p 24 Alcock A John 1973 June p 60 Alcoholics Anonymous, 1952 June p 42, 1953 Apr p 48 1971 Mar p 41 Alder, B J. 1960 Aug p 127, 1969 Mar p 66 Alder, Kurt, 1950 Dec p 27, 1967 Nov p 28 al-Din, Rashid, 1963 Aug p 55, 60 Aldını, Giovannı, 1965 Jan p 89 Aldrich, L. T., 1953 Mar. p. 74 Aldrich, Pelham, 1900 Nov p 36 Aldrin, Edwin E. Jr. 1569 Sept. p. 35, 1970 Mar p 39, 41, 49, Aug p 14, 1971 Oct p 50

Aldrovandı, Ulisse, 1968 Oct p 114 Alekseevskei, N E, 1963 July p 120, 1971 Apr p 84, 87, Nov p 22 Aleman, Miguel, 1952 Oct p 38 Alembert, Jean le Rond d', 1954 June p. 77. 1958 Mar p 94, 95, 1960 Oct p 145, 1964 Sept p 66, 1972 June p 86 Alexander, Archibald S, 1970 May p 56 Alexander, Bruce, 1976 Oct p 106 Alexander, Earl of Athone, 1965 Aug p 95 Alexander, Emmit C Jr, 1971 June p 55 Alexander, Hattie, 1956 Nov p 53 Alexander III, Pope, 1968 Oct p 116 Alexander, Jerome, 1952 Mar p 31 Alexander, Joseph K, 1971 Dec p 29 Alexander, Lyle T, 1959 Sept p 91, 92, 1967 Mar p 26 Alexander, Martin, 1966 July p 54 Alexander of Aphrodisias, 1949 Nov p 49, 1973 Apr p 93, 1977 Apr p 116, 119-122, Alexander of Tralles, 1958 June p 74, 78 Alexander, Peter, 1959 Sept p 97, 1960 Jan p 99, 1969 Aug p 88, 1970 Aug p 75, 76, 1972 Mar p 44, 1976 Jan p 116, 1977 May Alexander, Richard D, 1974 Aug p 34 Alexander, Samuel N, 1949 Apr p 38 Alexander, Steven, 1970 Oct p 60 Alexander the Great, 1949 Jan p 41, 43, Apr p 47, 1952 July p 20, 1954 Nov p 99, 1956 July p 40, 1958 June p 74, 1959 July p 100, 109, 1960 Oct p 68, 71, 1961 Mar p 114, June p 124, 129, 1963 Aug p 66, Sept p 102, Oct p 95, 97, 1964 Sept p 60, 1965 Sept p 61, 1966 Feb p 104, 106, Dec p 99, 101, 104, 105, 1968 Oct p 114, 1973 Jan p 80, 82, Oct p 41, 1974 Oct p 111 Alexander, W Merle, 1963 July p 84, 1966 May p 63 Alexandra, Princess of Saxe Coburg-Gotha, 1965 Aug p 89 Alexandrowicz, J S, 1966 Mar p 75 Alfano, R R, 1973 June p 42, 1974 Dec p 79 Alferov, Zh I, 1971 July p 32 Alfidi, Ralph J, 1975 Oct p 57 Alfonso X, King, 1966 Oct p 89, 1973 Dec p 88, 95 Alfonso XIII, King, 1965 Aug p 94 Alford, Charles A Jr, 1966 July p 34 Alfred, Prince of Saxe-Coburg Gotha 1965 Aug p 89 Alfred the Great, 1967 May p 74, 75, 1974 May p 40, 41 Alfven Hannes 1949 Mar p 38, 1950 Oct p 39, 1953 Sept p 67, 1954 Sept p 136, Oct p 52, 1955 Feb p 41, 1963 Nov p 51 1964 Apr p 66 68 Nov p 38, 1965 Mar p 64 1966 Nov p 61, 62, 1967 June p 35 1968 Jan p 85, Nov p 82, 1969 Fcb p 55, 63, 1970 Dcc p 38, 1971 July p 79, 1972 Apr p 23 27 1975 July p 34 Sept p 44 161 173 Algeri Giovanni, 1971 July p 51 Algire Glenn H 1976 May p 59 Algrain Pierre 1963 Nov p 51 al Haitham Ibn 1964 May p 103 Alı, F. M. 1973 Apr p. 56 Ali S Y , 1967 Nov p 67 Alice Grand Duchess of Hesse 1965 Aug. p 90 91 93 Alichano, A. L. 1949 June p. 26 Mikhanian A 1, 194) Junep 26, 1967 Oct Alix Princess 1965 Aug p 64 A) Allaby J V 1973 Nov p 41 Alla re Frank, 1977 Oct p 117

Anderson, Niels H, 1968 July p 50 Anderson, Norman G, 1964 May p 91, 1965 Aug p 74, 76 Anderson, Odin W, 1963 Aug p 23 Anderson, Paul, 1956 Nov p 70 Anderson, Philip W, 1965 June p 61, 1977 May p 40, 41, Dec p 82 Anderson, Robert A, 1975 Aug p 41, 1976 Apr p 45 Anderson, Robert L, 1963 Dec p 43 Anderson, Sergeant, 1953 Oct p 94 Anderson, T. W., 1969 June p. 58 Anderson, Thomas F, 1948 Nov p 50, 1953 Feb p 31, May p 37, 1954 Dec p 63, 64, 1955 Jan p 76, 1961 June p 95, 1969 Nov p 121, Dec p 48 Anderson, W C, 1955 Aug p 64-66 Anderson, William, 1973 Aug p 89 Andersson, Arne, 1976 June p 114 Andersson, Bengt, 1956 Jan p 72, 1961 Jan p 137, 1964 June p 60, 681 Andjus, Radoslav, 1956 June p 112 Andrade, E. N da C, 1949 Dec p 52, 1952 Nov p 33, 1956 May p 120, 1958 Sept p 80 Andre, Jean, 1961 Sept p 112 Andre, Torsten, 1959 Sept p 117 Andrei, Johannes, 1972 Sept p 89 Andres, G, 1959 May p 144 Andres, R. P , 1968 Oct p 48 Andrew, B H, 1977 Aug. p 32, 33 Andrew Engineering, 1977 Sept p 187 Andrew, R. J., 1964 Jan p 60 Andrew, Warren, 1962 Jan p 105 Andrewes, Christopher H, 1953 Nov p 52, 1957 Feb p 37, 1960 Apr p 86, Dec p 88, 1962 Mar p 70, 1968 Dec p 56, 1977 Dec Andrews, Donald H, 1949 June p 37 Andrews, H J, 1973 June p 75 Andrews, Howard L, 1960 June p 86 Andrews, Leon P, 1963 Aug p 20 Andrews, Peter, 1977 May p 31 Andreyev, 1957 Dec p 58 Andrillat, Y, 1967 Nov p 60, 1969 Jan p 31 Andronicus of Cyrrhus, 1969 Feb p 46 Andronikashvili, E. L., 1949 June p. 34, 1958 June p 34, 1960 Nov p 147 Aneshansley, Daniel J., 1969 Sept p 102 Anfinsen, Christian B, 1952 July p 42, 1961 Feb p 85, 1966 June p 45, Nov p 87, 1971 Mar p 33, 1972 Dec p 41 Angel, J Lawrence, 1952 Feb p 32, 1976 June Angell, Richard B , 1972 July p 42 Anglicus, Bartholomaeus, 1968 Oct p 116 Anglin F M, 1971 Nov p 47 Anglo-Australian Siding Spring Observatory, 1977 Aug p 36 Anglo-Iranian Oil Company Ltd., 1948 Sept p 14 12 Angold Roger 1968 Apr p 89 Angrist Stanley W 1964 June p 76 1965 Nov p 46 1966 June p 89, 1971 Dec p 76 Anastrom Anders 1968 Sept p 75 Anitschkow, N. N. 1966 Aug p 53, 1977 Feb p 76 Anitta King, 1963 Fcb p 104 Anker H S 1952 Apr p 50 Anker Johnson Betsv, 1963 Nov p 53 Ankin Josef 1953 Mar p 84 Anna King of Anglia 1951 Apr p 27 Anne, Queen 1967 Feb p 27, 1969 July p 42. Annison L. I. 1969 July p. 66 Anraku Yasuhiro 1976 Apr. p. 44 Anrap G. V. 1954 Jan. p. 52-54 Anslen Ruth N. 1943 Jan p. 22.

Anson, M L, 1951 Dec p 46 Anstis, Stuart N, 1976 Dec p 42, 45 Anthemus of Tralles, 1977 June p 64 Anthony, Harold E, 1960 Nov p 127 Antinori, Cavaliere, 1953 Oct p 93 Antioch College, 1963 Aug. p 84 Antiochus I, 1956 July p 39, 40, 41-44 Antiochus III, 1961 June p 130 Antiochus IV, 1956 July p 40 Antoinette, Marie, 1972 Nov p 54 Antoniadi, Eugene, 1953 May p 65, 71, 72 Antonius Pius, Emperor, 1977 Feb p 41 Antonova, E A, 1971 Nov p 33 Antonucci, E., 1975 Apr p 108 Antony, Mark, 1963 Dec p 115 Anufriyev, Yuri, 1969 Dec p 31 Aoki, Tadao, 1977 May p 68 Apgar, Jean, 1965 May p 48, 1966 Feb p 33, Apian, Peter, 1956 Sept. p 226 Apollonius, 1949 Jan p 41, 1954 Nov p 104, 1964 Sept p 60, 63, 1977 July p 124 Appel, Kenneth, 1976 Oct p 57, 1977 Oct p 108, 1978 Jan p 105 Appelquist, Thomas W, 1975 June p 62, Oct p 47, 1977 Oct. p 66 Appleby, John F, 1951 Sept p 46 Applegate, Vernon C, 1955 Dec p 35, 1966 Feb p 82, Nov p 99 Appleman, Dantel E., 1976 Apr p 99 Appleton, Edward V, 1955 Sept p 126, 132, 1967 Nov p 27 Appley, Mortimer H, 1971 Jan p 26 Applicon Inc, 1977 Sept p 113 Applied Automation Inc, 1969 June p 117 Applied Science Laboratories, Inc., 1962 Dec p 42 Apps, A, 1971 May p 84, 85 Apt, Leonard, 1957 July p 94, 96 Aquapendente, Hieronymus F A, 1974 Nov Aquinas, Thomas, 1948 June p 18, 1953 Feb p 78, 1957 Oct p 64, 1963 Feb p 144 Arab Authority for Agricultural Investment and Development, 1976 Sept p 204 Arab Leaque, 1965 Mar p 28, 31 Arabian American Oil Company, 1948 Sept p 11, 14 Arago, Dominique F, 1954 July p 73, 1961 May p 108, 1968 Sept. p 50 Arago, François 1953 July p 66, 1954 June p 80 Arai Toshihiko, 1967 Dec. p 25 Arambourg, Camille, 1966 Nov p 50 Araujo, Roberto L A de, 1963 Feb p 64 Araya G, 1973 Apr p 28 Arber Werner, 1961 June p 107, 1970 Jan p 88, 90 91 Arbuckle, Timothy, 1958 June p 97 Archambeau Charles 1965 Nov p 36 Archbold, E., 1968 Feb p 42 Archelaos, 1966 Dec p 99, 101 Archer, Michael, 1977 Aug. p 78 Archibald, W J 1951 June p 49 Archimedes, 1949 Mar p 53, Apr p 46, 47, Aug. p. 46, 1950 May p. 48, 49, 50, 51, 1952 Aug. p 25, 1953 Jan p 31, 52 1954 May p 82, 1956 Jan p 32, 1958 Sept p 69, 1959 June p 62, 66 1964 Sept p 51, 60, 1967 Jan p 69 1968 May p 96, 1972 June p 78 80, 81, 86 1975 Mar p 102, 1977 June p 64, July p 123 124 Archur, Sydney, 1966 Nov p 135 Archytas 1950 May p 50 Arctic Institute of North America, 1962 Sept iski Henrik 1962 Sept p 178

Ardenne, Manfred von, 1972 Jan p 56 Arecibo Radio Observatory, see US Arecibo Radio Observatory Arend, L E., 1972 June p 100 Arens, J F, 1966 Oct p 81 Aretaeus, 1967 Jan p 76 Arezzo, Guido d', 1967 Dec p 92 Arfwedson, Johan A, 1963 Jan p 89 Argand, Jean R., 1977 July p 126 Argonne National Laboratory, 1948 Nov p 24, 1949 July p 26, 1950 Jan p 28, 1951 Sept p 50, 1955 Oct p 32, 58, 59, 62, 68, 1956 Sept p 110, 1957 Jan p 64, 1958 Feb p 40, Mar p 51, June p 35, July p 50, Aug p 31, 1959 Jan p 70, Feb p 66, July p 66, 1960 Jan p 85, 91, Apr p 153, 72, 76, May p 138, July p 111, 113, 1962 Aug p 36, Nov p 109-112, 115, 119, 1963 Mar p 70, Apr p 70, 1964 May p 66, 67, 69, 1966 May p 47, 49, July p 78, 1967 May p 25, 26, 31, 1970 Mar p 38, Apr p 70, Nov p 19, 1971 May p 23, 25, Oct p 92, 1973 Aug p 36, 1975 Nov p 54, 1977 Jan p 53 Aring, Charles D , 1953 Apr p 45, 1975 Jan p 49 Aristarchus of Samos, 1949 Apr p 46, 47, 1952 Oct p 53, 1969 Nov p 105, 1970 Mar p 38 Aristeas, 1968 Oct p 113 Aristodemus, 1963 Dec. p 111 Aristogeiton, 1966 Dec p 105 Aristophanes, 1954 May p 74, 1963 June p 115, 1965 Feb p 111, 1966 Feb p 54, 1974 Apr p 101 Aristotle, 1948 May p 46, Dec p 18, 1949 Jan p 31, 42, May p 44, Aug p 40, 44-46, Nov p 48, 49, 1950 Feb p 52, May p 20, 48-51, Dec p 22, 24, 1951 Apr p 66, June p 64, July p 26, Dec p 66, 1952 Mar p 68, May p 34, Aug p 61, Sept p 47, Oct p 72, 73, Nov p 76, 1953 Feb p 32, Apr p 54, Sept p 108, Dec p 92, 1954 Mar p 61, Apr p 55, Aug p 45, 1955 Oct p 38, 1956 Aug p 97, Sept. p 73, 224, Dec p 40, 1957 Mar p 77, Nov p 81, 1958 Sept p 60, 62, Nov p 87, 1959 Feb p 100, 1960 Aug. p 99, Sept p 178, 182, 1962 Oct p 127, Dec p 81, 1963 Feb p 144, 1964 Feb p 35, June p 104, Sept p 132, Nov p 108, 1967 Sept p 69, 72, 73, 77, Oct p 68, 69, 1968 May p 95, 1969 Jan p 21, Apr p 118, June p 63, 64, Nov p 89 92, 94, 98, 1970 May p 118, 55, Aug. p 94, 1971 Mar p 50, 51, Aug. p 93, 1972 Feb p 95, Mar p 101, June p 78, 81, 1973 May p 82, 1974 Nov p 25, 1976 Feb p 77, June p 102, Aug. p 90, 1977 Apr p 116, May p 96, 1978 Jan p 68 Aristoxenus, 1950 May p 49, 1959 Dec p 110 Arizona Power Authority, 1971 Sept p 158 Arkesilas, King, 1949 June p 40 Arkwright, Richard, 1960 Sept p 189, 1963 Sept p 56, 1972 Dec p 51 Armagh Observatory, see UK Armagh Observatory Armillas, Pedro, 1964 July p 94 Armistead, William H , 1964 Mar p 59 Armour & Company, 1949 July p 44, 1961 July Armour Research Foundation, 1949 July p 29, 1956 Jan p 52, Sept p 110, 1965 Mar p 94 Armour, Richard 1951 July p 42 Arms K, 1968 Dec. p 30 Armstrong, D 1975 Jan p 65 Armstrong, Edward A., 1963 Aug. p. Armstrong, Edwin H. 1954 Apr p 64-69, 1957 Oct p 57, 1965 Mar p 100, 1972 Sept p 101, 110 Armstrong Henry E., 1566 Aug p 93, 94

American Geophysical Union, 1962 Mar. p.; 1963 Oct. p. 58.

American Heart Association, 1951 Mar. p. 21; 1952 Aug. p. 40; 1957 Dec. p. 64; 1961 Feb. p. 74; 1974 Mar. p. 46.

American Hospital Association, 1949 Jan. p. 28; 1960 Oct. p. 90; 1973 Sept. p. 94; 1974 Nov. p. 19; 1975 Feb. p. 17, 19.

American Humane Association, 1953 July p. 48. American Independent Oil Company, 1948 Sept. p. 14.

American Institute of Biological Sciences, 1948 May p. 33; Aug. p. 32; 1958 Feb. p. 40; Apr. p. 49; 1960 July p. 81.

American Institute of Electrical Engineers, 1948 July p. 31; 1949 July p. 29; 1965 Mar. p. 93; 1970 Oct. p. 111.

American Institute of Mining and Metallurgical Engineers, 1948 Dec. p. 26; 1949 Jan. p. 29.

American Institute of Physics, 1948 May p. 33; 1955 Oct. p. 44; 1958 Feb. p. 40; Apr. p. 64; Aug. p. 52.

American Jewish Congress, 1952 Aug. p. 40. American Law Institute, 1970 June p. 47; 1972 Nov. p. 51.

American Legion, 1970 May p. 23; 1978 Feb. p. 80.

American Locomotive Co., 1953 Nov. p. 70. American Mathematical Society, 1949 July p. 29; 1957 May p. 96, 99; 1958 July p. 47. American Meat Institute, 1954 Mar. p. 44.

American Medical Association, 1948 May p. 33; Oct. p. 25; 1949 Jan. p. 28; Mar. p. 26; May p. 29; June p. 12, 14; 1950 May p. 29; 1951 Oct. p. 34; 1952 Jan. p. 36, 40; Aug. p. 40; 1953 Sept. p. 73; 1956 May p. 120; 1957 Aug. p. 58; 1960 Oct. p. 90; 1963 June p. 71; Aug. p. 20, 24; Oct. p. 55; 1970 Dec. p. 88; 1973 Sept. p. 94, 135, 140, 144; 1974 Sept. p. 65; 1975 Feb. p. 16; Mar. p. 49; Dec. p. 50.

American Medical Women's Association, 1951 Mar. p. 30.

American Meteorological Society, 1957 July p. 64; 1961 Mar. p. 81.

American Museum of Natural History, 1950 May p. 29; 1952 Dec. p. 51; 1958 Aug. p. 28; Sept. p. 116; 1960 Feb. p. 124; May p. 118; July p. 133; 1962 July p. 101, 60, 61; 1963 Mar. p. 43, 45, 48; Apr. p. 154; May p. 117, 125; Aug. p. 43, 45; 1964 July p. 50, 54, 57; 1973 May p. 95.

American Nuclear Society, 1954 Dec. p. 53. American Numismatic Society, 1966 Feb. p. 103; 1971 Aug. p. 31.

American Oil Company, 1961 Mar. p. 160. American Optical Company, 1951 Sept. p. 54; 1971 June p. 22.

American Petroleum Institute, 1960 Jan. p. 94; 1974 July p. 47.

American Philosophical Society, 1948 July p. 30; 1949 Mar. p. 27; June p. 28; 1956 July p. 40; 1957 Nov. p. 47; 1959 June p. 63.

American Physical Society, 1948 May p. 33; Oct. p. 25; Dec. p. 27; 1949 Jan. p. 29; Mar. p. 27; 1950 Mar. p. 24; 1953 Mar. p. 46; 1954 Aug. p. 36; 1964 June p. 75; 1975 July p. 45; Sept. p. 53; 1977 Aug. p. 52.

American Physiological Society, 1948 May p. 33.

American Poultry Association, 1966 July p. 56. American Psychiatric Association, 1952 Aug. p. 40; 1955 Feb. p. 52.

American Psychological Association, 1949 Aug. p. 25; 1950 Oct. p. 26; 1952 July p. 36; 1956 Oct. p. 67; 1962 May p. 47.

American Public Health Association, 1956 Jan. p. 52; 1959 Jan. p. 43; 1964 Jan. p. 27. American Red Cross, 1948 Sept. p. 28; Nov. p. 25; 1949 Sept. p. 32; 1952 Jan. p. 35; 1958 June p. 49; 1960 Dec. p. 88.

American Research and Development Corporation, 1952 Apr. p. 40.

American Rheumatism Association, 1948 Oct. p. 25.

American School of Classical Studies, 1950 Aug. p. 47; 1976 June p. 76.

American Schools of Oriental Research, 1952 Oct. p. 64; 1954 Apr. p. 77; 1956 July p. 40; 1961 June p. 124; 1970 Mar. p. 54; 1971 Nov. p. 73; 1973 Jan. p. 84; 1978 Jan. p. 112; June p. 52.

American Science and Engineering, Inc., 1963 Aug. p. 34; Dec. p. 67; 1964 June p. 36; 1967 Dec. p. 36, 37, 43; 1975 Sept. p. 44, 47; 1977 Oct. p. 50.

American Society for Artificial Internal Organs, 1965 Nov. p. 40.

American Society for Engineering Education, 1956 June p. 56.

American Society for Horticultural Science, 1948 May p. 33.

American Society for Testing and Materials, 1964 Apr. p. 85; 1978 June p. 136.

American Society of Biological Chemists, 1956
June p. 54.

American Society of Chemical Engineers, 1949
Aug. p. 25.

American Society of Civil Engineers, 1948 June p. 25; 1949 June p. 29.

American Society of Experimental Pathology, 1956 June p. 54.

American Society of Heating and Ventilating Engineers, 1949 Nov. p. 29.

American Society of Mechanical Engineers, 1949 Apr. p. 27.

American Society of Newspaper Editors, 1955 Mar. p. 51; June p. 48; 1958 May p. 52. American Society of Parasitologists, 1948 May

p. 33; Nov. p. 25. American Society of Plant Physiologists, 1948 May p. 33.

American Society of Zoologists, 1948 May p. 33; Aug. p. 32; 1961 Feb. p. 66.

American Standards Association, 1959 Mar. p. 61; 1966 Dec. p. 66, 68.

American Surgical Association, 1973 Sept. p. 97. American Telephone and Telegraph Company, 1952 Jan. p. 36; Aug. p. 50; 1955 Aug. p. 47; 1957 Jan. p. 49; 1961 Sept. p. 84; Oct. p. 91, 102; 1964 Apr. p. 64; July p. 48; 1965 Mar. p. 95; 1966 Sept. p. 145; 1972 Feb. p. 18; 1977 Feb. p. 58, 68.

American University, 1957 Apr. p. 55. American Veterinary Medical Association, 1963 June p. 70.

American Victoria Land Traverse, 1962 Dec. p. 69.

Ames, Adelbert Jr., 1949 Aug. p. 55; 1951 Aug. p. 50; 1959 Apr. p. 56; 1978 May p. 132. Ames, Bruce N., 1963 Mar. p. 91; 1977 Feb. p. 83.

Ames, Oakes, 1966 Jan. p. 70.
Ames Research Center, see: National
Aeronautics and Space Administration Ames
Research Center.

Ames, William, 1967 Nov. p. 95.
Amherst College, 1958 Oct. p. 82; Dec. p. 38.
Amict, Giovanni B., 1976 Aug. p. 72.
Amiel, Henri F., 1963 Sept. p. 56.
Amiet, Pierre, 1978 June p. 52, 54, 59.
Amme, Robert C., 1968 Oct. p. 51.
Ammerman, Albert J., 1974 Sept. p. 58, 89.
Amontons, Guillaume, 1951 Feb. p. 55; 1956
May p. 109; 1971 Oct. p. 96, 103; 1975 July

p. 50. Amoore, John E., 1964 Feb. p. 45, 46; 1971 Aug. p. 46.

Ampère, André M., 1950 June p. 21; 1953 Oct. p. 91; 1954 June p. 54; 1955 June p. 64; 1958 Feb. p. 29; Apr. p. 56; 1960 July p. 48; 1961 May p. 107,108; 1968 Sept. p. 57; 1976 May p. 90.

Ampex Corporation, 1966 Sept. p. 228. Ampferer, Otto, 1969 Nov. p. 105. Amundsen, Roald, 1949 Dec. p. 56; 1955 Sept. p. 50; 1961 May p. 91; 1962 Sept. p. 64, 65. Amzel, Leon M., 1974 Nov. p. 65; 1977 Jan. p. 53.

Anacker, E. W., 1951 Oct. p. 28. Anaconda Company, 1970 Sept. p. 175. Anahist Company, 1950 May p. 29; Aug. p. 31. Analog Devices, Inc., 1977 Sept. p. 181. Anand, B. K., 1972 Feb. p. 85. Anan'yev, M. G., 1962 Oct. p. 48. Anastasius I, 1951 Apr. p. 26. Anati, David, 1973 Apr. p. 57, 58. Anaxagoras, 1975 June p. 62.

Anaximander, 1949 Apr. p. 44; 1970 May p. 116; 1971 Mar. p. 50. Anaximenes, 1970 May p. 116. Ancel, Albert P., 1958 Apr. p. 41.

Ancker-Johnson, Betsy, 1963 Nov. p. 53. Andernach, Guenther von, 1948 May p. 25, 26, 30.

Anders, Edward, 1963 Mar. p. 47-49; 1964 Feb. p. 51; July p. 46; 1965 Jan. p. 52; Nov. p. 49; 1967 Jan. p. 41; 1972 Oct. p. 88; 1973 July p. 68; 1975 Jan. p. 26; Feb. p. 36.

Andersen, Per, 1975 Jan. p. 62; 1977 June p. 98. Anderson, Alan R., 1972 July p. 46. Anderson, Arthur, 1954 Jan. p. 25.

Anderson, B., 1963 Dec. p. 56. Anderson, Carl D., 1948 June p. 28; 1949 Mar. p. 29, 31, 38, 39; Nov. p. 42; Dec. p. 14, 15; 1950 June p. 28; Sept. p. 29, 30; 1951 June p. 32; 1952 Jan. p. 23, 25; 1956 June p. 37; 1957 July p. 75; 1961 July p. 46; 1967 Nov. p.

25, 27; 1973 Oct. p. 104. Anderson, Charles R., 1973 Oct. p. 75. Anderson, Clinton P., 1955 May p. 50; July p. 49; 1959 May p. 68.

Nov. p. 53; 1972 May p. 68. Anderson, Don L., 1965 Nov. p. 36, 37; 1971 Nov. p. 53; 1972 May p. 57; 1974 Mar. p. 57; 1975 May p. 18.

Anderson, E. C., 1949 Aug. p. 50; 1951 Feb. p. 18.

Anderson, E. S., 1955 Apr. p. 94; 1966 Feb. p. 53; 1967 Dec. p. 25, 26; 1973 Apr. p. 25. Anderson, E. T., 1963 May p. 76. Anderson, Edgar, 1950 July p. 22; 1951 Apr.

Anderson, Edgar, 1950 July p. 22; 1951 Apr p. 58; 1973 Jan. p. 45. Anderson, G. M., 1959 July p. 71.

Anderson, G. M., 1959 July p. 71. Anderson, George W., 1958 Apr. p. 41. Anderson, H. R., 1963 July p. 84; 1966 May p. 62.

p. 62.
Anderson, Herbert L., 1948 June p. 25.
Anderson, J. D., 1963 July p. 84
Anderson, J. R., 1968 Apr. p. 116
Anderson, James B., 1968 Oct. p. 48
Anderson, James E., 1970 June p. 115
Anderson, John A., 1952 June p. 47, 49, 50, 52
Anderson, John D., 1975 Sept. p. 121
Anderson, John F., 1964 Mar. p. 41
Anderson, Kinsey A., 1960 June p. 64, 1963
May p. 95

Anderson, Kurt, 1969 Jan p 31, 1970 Dec p. 23, 29

Anderson, Lawrence B., 1951 Feb. p. 63 Anderson, M. D., 1955 Nov. p. 59, 1963 Jan p. 66 Anderson, Martin, 1965 Sept. p. 199

410

p 40, 1966 Aug p 42

Auerbach, Robert, 1959 May p 144, 1976 May p 63 Auerbach, T, 1949 Dec p 30 Auerbach-Levy, William, 1954 Nov p 34 Auger, Pierre V, 1949 Mar p 34, 36, 1960 Aug p 70, Nov p 90 Augusta, Duchess of Brunswick, 1969 July p 42 Augustine, Saint, 1951 Oct p 64, 1954 Mar p 63, 1967 Dec p 95, 1972 Sept p 78, 1973 Apr p 92, 1974 Nov p 23 Augustins, Saint, 1968 Oct p 115, 116 Augustus, Caesar, 1952 Aug p 60, 1954 Nov p 60, 62, 1965 Dec p 88, 1974 Dec p 121, 123 Augustus, Duke of Sussex, 1969 July p 42, 46 Augustus, Emperor, 1950 Aug p 49, 1952 June p 23, 1960 Jan p 59, Dec p 134, 1961 June p 129, 1963 Dec p 115, 116, 119, 116, 117, 1978 Jan p 111 Aumento, Fabrizio, 1969 June p 34, 35, 38 Aurbach, Gerald D, 1961 Apr p 57, 1970 Oct p 44, 48 Aurelian, Emperor, 1974 Dec p 121, 127 Aurelius, see Marcus Aurelius Antonius 'A-user-Re', 1952 Aug p 25 Ausonius, 1959 Oct p 165 Ausprunk, Dianna, 1976 May p 70 Aust, K. T, 1967 Dec p 67 Austen, W Gerald, 1978 May p 88 Austin, A L, 1976 Mar p 81 Austin, Jane, 1951 Sept p 46 Austin, Thomas C, 1975 Jan p 36, 37 see also Commonwealth, UK, British Australian Commonwealth Department of Health, 1971 Sept p 118 Australian Commonwealth Observatory, 1954 July p 35 Australian Commonwealth Scientific and Industrial Research Organization, 1963 June p 99, 1964 Jan p 33, 36, July p 36, 1965 Dec p 58, 1968 May p 116, 124, Dec p 38, 1970 Sept p 144 Australian Institute of Aboriginal Studies, 1966 Mar p 91 Australian Institute of Archaeology, 1964 Apr p 94 Australian National Museum of Victoria, 1966 Mar p 91, 93 Australian National University, 1956 Apr p 57, 1963 Mar p 49, May p 101, Oct p 47, 1966 May p 49, 1970 July p 59, 1971 Dec p 34, 1977 Oct p 106 Australian National University Observatories, 1978 Jan p 78 Australian Queensland Museum, 1977 Aug. p 78 Australian Radiophysics Laboratory, 1965 June p 51, 52 Australian Trust Territory of New Guinea, 1971 Sept p 119 Austrian Atomic Energy Research Center, 1971 Jan p 94 Autler Stanley A 1962 June p 62 64, 1967 Mar p 117 Autret, M 1954 Dec p 50 Autrum Hans J 1955 July p 94, 1967 Apr p 99, 1976 July p 112 Autout Adnen 1967 Aug p 99 Waki in P. 1969 May p. 56 Aveo I verett Research Corporation 1973 Oct p 24 1974 Oct p 57, 1977 Feb p 93 Nebury, Lord, 1948 June p. 17, 19 Averbach Charlotte, 1959 Sept. p. 98 Avenil Jan es R. 1963 Apr p 51 Aventt, Paul, 1963 Sept. p. 114-116-120, 1971

Sept p 64, 68 Avery, Amos G, 1951 Apr p 56 Avery, George S Jr, 1957 May p 112 Avery, Julian M, 1948 May p 56 Avery, Mary E, 1963 Oct p 28, 30, 1973 Apr p 82, 1977 June p 104 Avery, Oswald T, 1949 Aug p 27, 1953 Feb p 50, 51, 1956 July p 113, Oct p 88, Nov p 52, 1959 Jan p 41, 1961 Sept p 74, Oct p 86, 1968 Feb p 34, 1969 Jan p 38, 1972 Dec p 84, 86, 87 Avid, Robert B, 1957 Dec p 55 Avis, Fred, 1952 Feb p 64 Awolowo, Obafemi, 1963 Sept p 171 Awqatı, Quais al, 1971 Aug. p 20 Ax. Albert F. 1951 Nov p 40, 1955 May p 77 Axelrod, Daniel I, 1949 Feb p 33, 1968 Apr p 59, 1972 June p 62 Axelrod, Julius, 1965 July p 54, 1970 Dec p 38, 1974 June p 62 Axen, Rolf, 1971 Mar p 26 Axford, W Ian, 1965 Mar p 68, 1966 Dec p 51 Aycock, W Lloyd, 1955 Dec p 43 Ayllon, Teodoro, 1967 Mar p 82 Ayres, Eugene, 1949 Apr p 26, 1952 Feb p 15, Sept p 126, 128, 1955 July p 67, 1956 Oct Ayub Khan, Mohammad, 1970 Sept p 166 Azara, Felix de, 1950 July p 23 Azbel, M Ya., 1973 Jan p 97 Azıkıwe, Nnamdı, 1963, Sept p 171 Azrın, Nathan H., 1967 Mar p 82

B

B F Goodrich Chemical Company, 1956 Nov

p 82, 1957 Sept p 103, 1968 Sept p 162

Baade, Walter, 1948 July p 22, Aug p 16, 1949 Sept p 29, Dec p 18, 20, 21, 1950 Feb p 38, 1952 Feb p 47-50, July p 47, 48, Nov p 46, 1953 Jan p 17, 21, Mar p 36, June p 56, 60, 63-65, 1957 Mar p 55, July p 50, 53, 1958 Sept p 86, Nov p 45, 47, 50, 1959 July p 48, 53, 55, Dec p 93, 96, 1961 Feb p 52, 1962 Mar p 41, 42, 45, Apr p 56, 1964 May p 78, June p 38, Nov p 38, 1965 Apr p 107, 112-114, 1966 June p 30, 31, Aug p 32, 1971 Jan p 52, July p 75, 77, 1973 June p 31, 32, Dec p 43, 1975 Aug. p 26, 1976 June p 105, Dec p 89, 95, 1977 Oct p 47 Baadsgaard, Halfdan, 1977 Mar p 98 Babb, D D, 1957 Feb p 80 Babbage, Charles, 1949 Apr p 30, 31, 1951 Aug. p 16, 17, 1952 Apr p 66 68, 70, 72 73 1959 Nov p 174, 1964 Sept p 203, 204, 1966 Sept p 67, 68, 1972 Aug p 80 Babbitt, Isaac, 1975 July p 57, 61 Babbitt Milton, 1967 Dec p 103 Babcock and Wilcox Company, 1955 July p 48, 66, 1963 Dec p 76, 79, 88, 1968 Feb p 23 29, 1971 Sept p 42 Babcock, Harold D. 1949 Nov p 42 1952 June p 52, 1955 May p 56, 1959 Dec p 82, 1960 Feb p 55 1966 Nov p 54, 57, 58, 1968 Jan p 101 Babcock, Horace W, 1948 May p 37, Oct p 7-9, 1949 Mar p 29, 38, 1950 June p 20 23, Oct p 16, 1952 June p 32 1955 May p 36, 1960 Feb p 53, 1961 Mar p 54, 1966 Nov p 54, 57, 55, 1967 Aug. p 36, 1968 Jan p 101, 1971 Aug p 66, 1973 June p 30, 35 Babcock, Louis L., 1963 Mar p. 121 Babcock-Atlantique, 1972 Oct. p. 30 Babelon L C I, 1978 Jan p 111

Babinet, Jacques, 1948 Aug p 49, 1968 June p 55, 56 Bach, J S, 1952 May p 66, 1956 Feb p 84, 1967 Dec p 98, 1972 Dec p 91, 1974 Nov Bacharach, Alfred, 1970 Oct p 86 Bachelard, Gaston, 1971 July p 66 Bachelet, Emile, 1973 Oct p 18 Bacher, Robert F, 1948 July p 31, 1949 Mar p 24, June p 26, 1950 May p 26, June p 11, 1953 May p 54, 1956 May p 54, 1958 Oct p 52, 1960 July p 79, 1963 Jan p 90 Bachhoffner, George H, 1971 May p 80 Bachler, Emil, 1972 Mar p 72 Bachman, C H, 1965 Oct p 21 Bachman, G O, 1954 Oct p 36, 38 Bachofen, J. J., 1949 Jan. p. 24, 25 Bachrach, Howard L, 1954 Jan p 42 Back, Nathan, 1963 Mar p 118 Backenstoss, G, 1972 Nov p 107 Backer, S M de, 1950 Jan p 23 Backhaus, Hermann, 1962 Nov p 87 Backofen, Walter A, 1969 Mar p 28, 35 Backus, George, 1965 Nov p 36 Backus, Myron P. 1952 Apr p 56 Backus, Richard H, 1975 June p 90 Bacon, Francis, 1952 Jan p 60, Mar p 68, June p 57, Oct p 76, 1954 Sept p 60, 1957 July p 72, 1958 June p 74, Sept p 62, 107, 1959 Aug p 106, Oct p 166, 73, 77, 1960 Sept p 180, 1961 Aug p 108, 113, 1962 Dec p 81, 108, 1963 Sept. p 55, 1967 Aug p 97, 1968 Apr p 53, Dec p 105, 1969 Nov p 104, 1970 Oct p 114, 1972 Aug p 76-80, 1973 Jan p 14, Apr p 94, 1975 Feb p 88, 1977 Nov p 150 Bacon, Fred, 1976 June p 114 Bacon, Robert L., 1959 Mar p 91 Bacon, Roger, 1952 Oct p 76, 1954 May p 36, 1958 Feb p 29, 1970 Aug p 96, 1977 Apr p 116, 1978 Jan p 69 Bacon, Selden D, 1957 July p 69 Bacq, Z, 1959 Sept p 97 Bacquerel, Henri, 1966 Aug p 89, 95, 1971 Dec p 31, 33, 1977 Aug p 60 Badash, Lawrence, 1966 Aug p 89 Bader, F E, 1956 July p 50 Bader, John P., 1972 Jan p 26, 28, Aug p 105 Bader, Otto, 1965 Feb p 54 Bader, Saul, 1963 July p 59 Badger Manufacturing Company, 1957 Mar p 45 Badovere, Jacob, 1949 Aug p 40 Baehr, George, 1949 June p 14 Baekeland, Leo H., 1952 Sept p 150, 1957 Sept p 88 Baenninger, Louise, 1977 May p 115 Baer, Donald M., 1967 Mar p 81 Baer, J., 1956 Nov p 79 Baer Karl von, 1952 May p 76 Baertschi, P., 1955 Oct p 35 Baeyer, Adolf von, 1958 Jan p 60 1967 Nov p 26, 1970 Jan p 63, 64 Baez, Albert V, 1963 Aug p 37 1965 June p 34, 1971 Sept p 49 Bagaev, V S. 1976 June p 37 Bugby, Gordon 1965 Sept p 210 Bagchi, B K , 1972 Feb p 85 Bagdy, Daniel, 1962 Mar p 62 Baghutur, Yesugei, 1963 Aug p 57 Bagshaw, Munel H. 1969 Jan p. 78, 79 Bahadon, Mchdi N., 1975 Feb. p. 144 Bahcall, John N 1965 Fcb p 53, 1966 Dcc p 45, 1968 July p 49, 1969 Apr p 51, 1970 Dec p 26, 1974 Jan p 51, Dec. p 39, 1977 Oct p 51, 53 Bal call Neta V, 1965 July p. 49, 1969 July

Armstrong, John A, 1954 Apr p 64, 1964 Apr p 43, 1967 Nov p 69, 1973 June p 53, 1975 May p 25 Armstrong, John B, 1976 Apr p 40, 41 Armstrong, Neal E, 1964 Mar p 59 Armstrong, Neil A, 1969 Sept p 88, 96, 1970 Mar p 39, 41, 49, Aug p 14, 1971 Oct p 49 Arnason, Barry G W, 1974 Nov p 60 Arnaud, Claude, 1970 Oct p 44 Arndt, A, 1963 Aug p 90 Arnett, W David, 1975 Mar p 31, 1976 Dec p 93 Arno, Peter, 1956 Feb p 35 Arnold Arboretum, see Harvard University Arnold Arboretum Arnold, Emerson, 1974 Dec p 72 Arnold, G W, 1971 July p 92 Arnold, George, 1974 Nov p 52 Arnold, James R, 1950 Nov p 26, Dec p 27. 1951 Feb p 18, 1958 Aug p 62, 1959 Sept p 77, 1965 Nov p 49, 1973 July p 68 Arnold, Matthew, 1958 Oct p 115 Arnold of Westphalial, 1961 Nov p 152 Arnold, Richard C, 1972 Sept p 66 Arnold, V I, 1976 Apr p 79 Arnold, William, 1951 Sept p 54, 1957 Apr p 72, 1965 July p 82, 1974 Dec p 72 Arnoldy, R L, 1963 May p 96 Arnolfini, Jan, 1951 Feb p 60 Arnon, Daniel I, 1951 Sept p 52, 1955 Feb p 53, 1959 Oct p 95, 1960 Aug p 72, Nov p 105, 1961 Sept p 67, 1962 June p 92, Oct p 60, 1965 July p 77, 82 Arnowitt, Richard L, 1978 Feb p 138 Arntz, Floyd O, 1977 May p 48 Arntzen, C J, 1974 Dec p 70 Arond, Henry, 1952 May p 44 Aronou, Wilbert S, 1974 Mar p 46 Arons, Jonathan, 1977 Oct p 51 Aronsohn, E, 1961 Jan p 134, 136 Aronson, Lester R, 1951 Apr p 38 Arp, Halton C, 1954 Sept p 147, 148, 1959 July p 55, 1961 June p 115, 1962 Apr p 60, 1963 June p 106, 1965 Apr p 64, 1966 Dec p 47, 1969 Jan p 34-37, 1970 June p 35, Dec p 28, 1972 Aug p 60, 1973 Dec p 42, 43, 47, 48, 1976 Dec p 90, 92 Arrest, Heinrich L d', 1977 Feb p 30 Arrhenius, Gustaf O S, 1959 Oct p 83, 1960 Dec p 70, 1974 June p 73, 1978 Feb p 56 Arrhenius, Svante, 1951 Jan p 40, 1953 May p 72, 1954 Sept p 67, 1956 July p 88, 1959 Aug p 120, 1966 Nov p 88, 1967 Nov p 26 Arrhidaeus, Philip, 1966 Feb p 104, 106 Arrow, Kenneth J, 1972 Dec p 41, 1976 June p 25 Arroyo, Alex, 1965 July p 94 Artamonov, M I, 1969 Aug p 75 Artapanus, 1973 Jan p 85 Artemidorus, 1951 May p 60 Artenstein, Malcolm, 1966 July p 32 Arthritis and Rheumatism Foundation, 1948 Oct p 25 Arthritis Foundation, 1978 Jan p 44 Arthur D Little, Inc., 1950 July p 27, 1951 Dec p 38, 1953 Oct p 32, 33, 1966 Feb p 50, 1968 July p 103, 1970 Mar p 41, 1971 Sept p 158, 159 Arthur, Duke of Connaught, 1965 Aug p 88 Arthus, Nicholas M., 1964 Mar p 41 Artsimovich, Lev A., 1960 Jan p 72, 1969 Dec p 52, 1972 July p 72 Arvanitaki-Chalazonitis, A., 1963 July p. 130, 1967 May p 47 Arvidson, Raymond E., 1977 Jan p 94, 1978 Mar p 76 Arvidsson, Jan, 1972 July p. 99

Arx, William von, 1955 Sept p 101 Asa, Queen, 1967 May p 75 Asakura, Sho, 1975 Aug p 39 Asch, Solomon E, 1958 Sept p 156, 1959 Feb p 51, 1961 Dec p 47, 1974 June p 52, Dec p 28 Aschheim, S, 1955 Jan p 55 Ascoli, M, 1951 July p 60 Aselli, Gaspero, 1963 June p 83, 87 Aserinsky, Eugene, 1960 Nov p 82, 88, 1967 Feb p 62 Ash, E A, 1972 Oct p 60 Ash, J F, 1971 Oct p 82 Ash, Michael E, 1968 July p 29, 31, 37 Ashby, Enc, 1950 Oct p 41 Ashby, W Ross, 1950 May p 43, 1952 Sept Ashby, William C, 1972 May p 100 Ashcroft, Neil W, 1969 Feb p 44 Ashear, Janet B, 1975 Nov p 117, 118 Asheshov, Igor N , 1948 Nov p 50, 1949 Aug p 33, 34, 1952 Apr p 56 Ashkin, Arthur, 1964 Apr p 43 Ashkın, T, 1949 Dec p 30 Ashley, Christopher C, 1970 Apr p 84, 88, 90 Ashley, William, Sir, 1977 Nov p 151 Ashman, Richard, 1961 Nov p 134 Ashman, Robert, 1970 May p 84 Ashmolean Museum, 1968 May p 30 Ashton, Norman, 1977 June p 103 Ashton, P S, 1973 Dec p 63 Ashton, T S, 1963 Sept p 55 Ashurbanipal, 1961 Jan p 69, 75 Ashwell, G G, 1974 May p 85 Asian Development Bank, 1976 Sept p 38, 200 Asitawandas, King, 1949 Aug p 22, 23 Askew, R R, 1975 Jan p 90 Askonas, Brigitte A, 1973 July p 55 Aslakson, Carl I, 1955 Aug p 64, 66 Aslamazov, L G, 1971 Nov p 32 Asmundson, Sally J, 1971 Apr p 72 Asnın, V M, 1976 June p 29 Asofsky, Richard M, 1974 Nov p 67 Asoka, 1966 Feb p 106, 108 ASP Chemical Company, 1950 Jan p 29 Aspdin, Joseph, 1964 Apr p 81, 1977 July p 82 Aspın, Frank, 1950 Feb p 19 Assenmacher, Ivan, 1971 Apr p 72, 1972 Mar p 28 Associated Electrical Industries Ltd., 1958 Mar p 50 Associated Midwest Universities, 1958 July p 50 Associated Press, 1961 Feb p 66, 1965 Mar p 95 Associated Universities, Inc., 1956 Oct p 58 61, 1957 Jan p 64 Associates for Radio Astronomy, 1967 Aug p 38 Association for Applied Solar Energy, 1956 Jan p 48 Association for Asian Studies, 1971 May p 46 Association for the Psychiatric Treatment of Offenders, 1951 Apr p 38, 1963 Nov p 41 Association of American Colleges, 1954 Mar p 44 Association of American Medical Colleges, 1975 Feb p 16, 19 Association of American Publishers, 1974 June p 50 Association of American Universities, 1952 Mar p 34 Association of Oak Ridge Scientists and Engineers, 1948 Oct p 24 Association of Universities for Research in Astronomy, 1953 May p. 54-1965 July p. 19

Assurbanipal, see Ashurbanipal Ast, David B, 1955 Feb p 35 Astapenko, Pavel, 1962 Sept p 88, 92 Astbury, W T, 1954 July p 55, 1955 Feb p 101, 1957 Sept p 173, 1961 Dec p 108, 1962 Mar p 62, 1966 Nov p 84, 1969 Aug p 87-89, 1971 June p 47, 1975 Nov p 37 Astın, Allen V, 1953 May p 53, June p 44, Aug p 42, Oct p 51, 1956 July p 50, 1970 Oct p 68 Aston, Francis W, 1949 Nov p 43, 1952 Oct p 56, 1953 Mar p 69, 74, 1967 Nov p 26 Astra Pharmaceutical Co, 1971 Nov p 86 Astrachan, Lazarus, 1962 Feb p 46, 1964 May p 49, 51, 52 Astrom, Bjorn, 1957 Aug p 58 Astrup, Paul, 1974 Mar p 46 Astwood, E B, 1960 Mar p 126 Asuni, T, 1969 Dec p 22 Atalla, John, 1973 Aug p 50 Atassi, M Z, 1976 Mar p 60B Atema, Jelle, 1971 May p 103 Atkın, Adam, 1973 Oct p 100 Atkin, Lawrence R, 1973 June p 93, 1977 June p 56 Atkins, E D T, 1968 June p 105 Atkins, Elisha, 1956 Jan p 52, 1957 June p 66 1964 Mar p 39 Atkins, Leonard, 1959 July p 67 Atkinson, G F, 1975 Mar p 93 Atkinson, R d'E, 1950 Jan p 43 Atkinson, R J C, 1953 Dec p 58, 1974 Sept p 74 Atkinson, Richard C, 1971 Aug p 82 Atkınson, Thomas, 1956 Jan p 70, 75 Atlantic Richfield Company, 1968 Sept p 86 Atlas Chemical Industries, 1965 Nov p 26 Atlas Copco Mining and Construction Techniques, Inc., 1975 Mar p 19 Atlas Steels Limited, 1963 Dec p 76, 86 Atomic Energy of Canada, Ltd., 1960 Apr p 88, 1975 Oct p 22-27 Atomic Industrial Forum, Inc., 1972 Oct p 46, 1974 Mar p 44, 1976 Aug p 44A, 1978 June p 74 Atomic Power Constructions Ltd , 1965 July p 46 Atomic Power Development Associates, Inc. 1955 July p 48, 1960 Jan p 91 Atomics International, 1962 June p 66 Atomics International, 1968 Feb p 31 Atsumi, Kazuhiko, 1965 Nov p 40 Attala, R, 1971 Feb p 22 Attalus II, 1950 Aug p 50 46 Atterling, Hugo, 1957 Aug p 58 Attıla, 1948 June p 17, 1960 Apr p 158, 1963 Aug p 66 Attlee, Clement, 1950 Jan p 13 1952 Apr p 37, 1954 May p 48 Attneave Frank 1977 Jan p 71 Attneave, Fred, 1971 June p 37, Dec p 63 Atwater, Montgomery M 1966 Feb p 92 Atwater, Tanya, 1971 Nov p 58 Atwood, Earl L Jr 1962 Sept p 206 203 Atwood, Genevieve 1975 Dec p 23 Aub Joseph C., 1977 June p. 111-113 Aubenque Maurice, 1968 Jan p 24 Auber, J., 1965 June p. 86 Aubert, J. P., 1960 Nov. p. 108 Aubrey, John, 1952 June p 57 Auburn University 1963 Sept p 193 Audubon John J 1952 Jul p 🚱 Audubon John W., 1952 Jun p 64 Audubon, Victor W., 1952 Jan. p. 64 Audus L.J. 1952 Jun p. 12 Auerbach Charlette Littla i p. 102 Austhach Owar 1/(2 July p V 31 1H IFC

Barkhausen, Heinrich, 1956 Jan p 34, 35 Barkla, C G, 1967 Nov p 26 Barkley, David S., 1969 June p 83, 84 Barletti, Nicolas A., 1976 Sept p 140 Barlow, G W, 1949 Nov p 21, 22 Barlow, Horace B, 1964 Mar p 113, 1965 Jan p 50, 1968 Feb p 52, 1969 May p 109, 111, 1972 Aug. p 90, 1977 July p 111 Barlow, John S, 1970 July p 43 Barlow, Robert B Jr., 1972 June p 94 Barmat, Melvin, 1959 July p 71 Barnafi, Livio, 1956 Nov p 70 Barnard, Chester I, 1949 Dec p 26, 1952 Jan p 38, 1954 Mar p 30, 32, 1956 Feb p 50, Mar p 50, 1957 Nov p 45, 1958 May p 54 Barnard, Christiaan, 1978 May p 88 Barnard, E A, 1961 Feb p 91 Barnard, Edward E., 1948 May p 35, 1952 Oct p 55, 1972 Aug. p 56, 1975 Jan p 26, Sept p 71, 146, 1977 June p 66, 68, 69 Barnes, Aaron, 1975 Dec p 42, 1976 May p 96 Barnes, Anthony, 1976 May p 74 Barnes, Arnold, 1964 Mar p 69 Barnes, Arthur H , 1970 Aug. p 24, 25 Barnes, C B, 1953 Sept p 84 Barnes Engineering Company, 1967 Feb p 97 Barnes, H D, 1957 Mar p 134 Barnes, Jean, 1964 Nov p 60, 1967 Oct p 119 Barnes, Marion, 1953 Feb p 72 Barnes, R. Bowling, 1967 Feb p 94, 96-99, 102 Barnes, R. H., 1972 Feb p 28 Barnes, R. S., 1969 June p 30, 32, 1976 Dec D 114 Barnes, Robert P, 1950 Dec p 26 Barnes, Virgil E, 1962 Dec p 69, 1964 Feb p 50 Barnett, Arthur M., 1975 Mar p 79 Barnett, Audrey, 1975 Feb p 79 Barnett, B L, 1977 July p 104 Barnett, Leslie, 1962 Mar p 69, Oct p 66, 1963 Jan p 55 Barnett, Lincoln, 1954 Feb p 42 Barnett, M A F, 1955 Sept p 126 Barnett, Michael, 1975 Oct p 50 Barnett, R. D., 1954 Jan p 46 Barnicot, N. A., 1968 May p. 113 Barns, Aaron, 1971 Aug p 70 Barnum, Phineas T, 1967 July p 102, 103, 108 Barnwell, Patricia, 1968 Feb p 86 Barogenics Incorporated, 1965 May p 39, 44, Baron, Samuel, 1961 May p 55, 57, 1963 Mar p 91, Oct p 50, 1969 Jan p 46 Baroni, G., 1956 June p. 41 Barr, Edward, 1964 Feb p 67, 1965 May p 31 33, 35 Barr, Frank T. 1972 Dec p 35 Barr, Murray L., 1954 Dec. p. 60, 1963 July p 58, 62, 1971 Nov p 34 Barr, Nathaniel, 1967 Feb p 80 Barr, William L., 1966 Dec. p. 26 Barr Y. M., 1973 Oct. p. 30 Barrai, Italo, 1969 Aug p 30, 35 Barreca, Ferruccio, 1975 Feb p 81 Barrel Joseph, 1962 July p 58 Barrell Barclay G. 1969 Nov p 58, 1974 June p 50, 1977 Dec p 56 Barrell Bart 1976 Jan. p 73 Barrer R M 1959 Jan p 87 Barrett Alan H. 1961 May p. 62, 1963 July p 82 84, 1965 July p 28 30, 1966 Jan p 49, 1967 Oct p 50, 1969 Feb p 42, 1973 Mar p 56, 1975 June p 94 101 Barrett Charles 5 Jr 1966 June p 56, Oct Barrett Joseph J., 1908 Sept. p. 124 Battett, Peter 1, 1965 Apr p 44

Barrett, Robert, 1973 May p 97, 98 Barrett-Hamilton, G E H, 1967 Jan. p 79, 84 Barringer, D M , 1958 July p 33, 1965 Oct. p 26 Barrnett, Russell J, 1975 Oct p 37, 1977 Aug. p 109, 111 Barron, E S Guzman, 1948 Dec p 35, 1949 Sept p 13, 15, 1951 Dec p 23, 1959 Sept p 97 Barros-Pita, J C, 1977 July p 118 Barrow, Isaac, 1955 Dec p 74, 75 Barry, John M , 1957 Oct p 121, 128, 1958 Feb p 36, 1969 July p 66 Barski, George, 1969 Apr p 26, 1974 July p 36 Barsukov, O M, 1975 May p 21 Bart, Leon P I de, 1949 Jan p 31 Bartee, Gary, 1975 Mar p 98, 99 Bartee, Thomas C, 1962 Feb p 104 Bartel, W , 1973 Nov p 41 Bartell, Pasquale, 1956 Apr p 64 Bartels, E. C., 1958 June p 73 Bartels Johann M, 1977 July p 124 Bartels, Julius, 1955 Feb p 42, 1968 Nov p 90, 1975 Sept p 161 Barth, Carl, 1971 Oct p 102 Barth, Charles A, 1966 Mar p 106, 108, 1977 July p 39 Barth, Fredrik, 1952 Oct p 64 Barth, John, 1967 May p 48 Barth, Lester G, 1977 Nov p 138 Barth, Lucena J, 1977 Nov p 138 Barth, Thomas F, 1962 Dec p 60 Barthel, T S, 1957 May p 43 Barthelme, John, 1978 Apr p 98 Barthold, V V, 1963 Aug. p 61 Bartholdi, Frederic A, 1974 Feb p 98 Bartholin, Thomas, 1976 Jan p 112 Bartholomew, George A, 1972 Mar p 27, 28, 1973 Apr p 97 Bartholow, Roberts, 1973 July p 96 Bartlett, Frederic, Sir, 1950 Sept p 81, 1971 Mar p 99 Bartlett, M Frederick, 1956 Sept p 113 Bartlett, Neil, 1962 Nov p 76, 1964 May p 69, 1974 Aug p 48 Bartlett, Paul D, 1954 Sept p 86, 1956 June p 122, 1957 Mar p 92, 1958 Aug. p 66, 1960 May p 136 Bartlett, Roscoe G, 1956 June p 54 Bartlett, William E., 1973 Mar p 87 Bartok, Bela, 1959 Dec p 116 Bartoli, Daniel, 1968 Feb p 75 Barton, Derek H R., 1969 Dec p 48, 1970 Jan p 58 Barton, Lela V, 1959 Apr p 80 Barton, Otis, 1951 Aug. p 28, 1953 July p 82 Barton, Richard D., 1978 June p 66 Barton-Browne, Lindsay, 1961 May p 140, 142 Barton-Wright, E. C., 1964 Mar p 60 Bartram, William, 1970 Nov p 38 Bartz, Quentin R., 1949 Aug. p 32, 1956 Oct. p 82 Baruch, Bernard M., 1949 Mar p. 19, June p 14, 1950 Jan p 13, 1956 Nov p 83 Bary, Anton de, 1956 May p. 98 Bar-Zeev, Micha, 1975 July p 109 Bascom Willard, 1959 June p 78, Aug. p 66, 1960 Aug p 81, 1961 May p 76, 1969 Sept p 64, 1974 Aug. p 16 Basedow, Karl von, 1960 Mar p. 129 Baserga Renato, 1964 Feb p 58, 1965 Oct p 81, 1966 Jan p 39 Bashenina, N V 1960 Jan p 67 Bashkirtsev, Mane, 1949 Oct p 31 Basic Science Foundation, 1958 Dec. p. 54 Basilevich, N. 1, 1970 Sept. p. 149 Bisilio Carlos, 1962 Feb p 76, Mar p 68

Basınski, Jane M., 1964 Jan p. 40, 41 Baskerville, John, 1969 May p 62 Basmajian, John V, 1964 Mar p 58 Basov, Nikolai G., 1958 Dec. p. 42, 1964 Dec. p 60, 1967 Nov p 28, 1968 Sept p 134, 1971 June p 27, 1974 June p 24 Bass, Arnold M , 1957 Mar p 91, 1960 May p 137, 1966 Oct p 70 Bass, David E., 1968 Feb p 94 Bass, George F, 1961 Sept. p 92, 1971 Aug p 23 Bass, Michael, 1969 Feb p 33 Bass, Milton J, 1958 Jan p 78 Bassalygo, L A, 1978 June p 120, 123, 124 Basset, James, 1955 Nov p 44 Bassett, H L, 1964 June p 85 Bassett, Preston, 1971 Feb p 107 Bassham, James A., 1961 Oct p 81, 1965 July p 74, 1969 Dec. p 70, 1974 Dec. p 72 Bassi, Agostino, 1956 Aug. p 97 Bassot, Jean-Marie, 1971 Jan p 65, 1976 May p 74, 82, 83 Bassuk, Ellen L, 1978 Feb p 46 Basten, Anthony, 1974 Nov p 64 Bastianelli, Giuseppe, 1952 June p 23 Bastien, Pierre, 1974 Dec p 129 Bastock, Margaret, 1973 Dec p 24 Batchelor, F R., 1961 Mar p 69 Batchelor, G K., 1954 Sept p 136 Batchelor, W H, 1954 Feb p 58 Bateman, Alan M, 1960 June p 148 Bateman, R., 1952 June p 38 Bateman, W G, 1961 June p 139 Bates, Gaylord S, 1951 Jan p 30 Bates, Henry W, 1948 May p 12, June p 17, 1953 July p 82, 1959 Feb p 74, 75, 79, 1969 Feb p 27, 28, 1973 Dec p 67 Bates, J A. V, 1973 July p 100 Bates, Lynn S, 1965 Aug p 44, 1969 Nov p 58, 1974 Aug p 76 Bateson, Frank M, 1959 Nov p 92 Bateson, Gregory, 1948 Nov p 15, 1950 Sept p 88, 1962 Aug. p 71 Bateson, William, 1956 Dec p 127, 1966 July p 58 Batson, Raymond, 1973 Jan p 56 Battelle Memorial Institute, 1949 Apr p 49, 1953 June p 50, 1956 Sept p 110, 1958 July p 50, 1961 Jan p 84, 1966 Oct p 64, 1968 July p 97, 1971 Mar p 47, Nov p 15, 1976 Oct p 93 Battelli, Frederic, 1951 July p. 18, 1968 July n 19 Batterman, Bons W., 1969 July p. 73 Batusov, Yu, 1978 June p 68 Baudelaire, Charles, 1958 Sept p 162, 1969 Dec p 19, 1977 Oct p 132 Baudhuin, Pierre, 1963 May p 71 Baudot, Emile, 1972 Aug p 76, 80, 83 Bauer, Carl A. 1948 May p 41, June p 56, 1954 Nov p 39, 1974 July p 66 Bauer, H L. Jr., 1954 Oct p 36 Bauer, Hans, 1964 Apr p 50 Bauer, Johannes H., 1951 June p. 45, 46, 47, 50 Bauer, Louis A. 1954 Feb p 40 Bauer, Louis H. 1953 Feb p 42 Bauer, Raymond A , 1962 May p 47, 48 Bauer, S. H., 1948 No. p. 24 Bauer, W. Dietz, 1975 Apr. p. 90 Bauer, Walter, 1949 Dec p 28, 1950 Mar p 33 Baughman Robert W, 1973 Nov p 47 Baum, L. Frank, 1975 May p. 84 Baum William A. 1956 Oct. p. 66 Bauman, Robert E., 1975 July p 45 Baumann, Eugen, 1960 Mar p 119, 1971 June Baumeister, Philip 1970 Dec p 59

p. 36; 1977 Oct. p. 55. Bahng, John D., 1955 Feb. p. 42; 1957 July p. 66; 1959 May p. 58. Baibakov, N. K., 1969 June p. 22 Baiborodov, Yu T., 1966 Dec. p. 31. Baier, Robert E., 1974 May p. 64, 65, 67. Baikie, A. G., 1961 Mar. p. 91. Baikie, William B., 1962 May p. 86. Bailey, Allen J., 1965 June p. 61. Bailey, Anita I., 1962 Apr. p. 115. Bailey, C. J., 1969 Oct. p. 77. Bailey, C. L., 1950 Jan. p. 44. Bailey, Charles P., 1960 Feb. p. 79. Bailey, Dana K., 1952 June p. 38; 1957 Jan. p. 49. Bailey, H. H., 1971 Dec. p. 22 Bailey, Harry P., 1972 June p. 62. Bailey, Herbert S. Jr., 1953 July p. 66; 1955 Nov. p. 38; 1957 Nov. p. 51; 1975 Oct. p. 85. Bailey, J. L., 1961 Feb. p. 86. Bailey, J. M., 1966 Apr. p. 98. Bailey, Judy A., 1968 Apr. p. 44. Bailey, Kenneth, 1962 Mar. p. 63; 1975 Nov. p. 37. Bailey, Solon I., 1950 Feb. p. 33; 1953 June p. 57; 1959 July p. 49; 1975 June p. 72. Bailey, W. T. Jr., 1948 Nov. p. 47, 50. Baillet, Adrien, 1959 Oct. p. 165, 166. Bailly, Jean, 1954 June p. 80. Bain, Andrew G., 1949 Mar. p. 40. Bainbridge, Kenneth T., 1948 June p. 27, 29. Bainbridge, Richard, 1957 Aug. p. 48, 50. Baines, H., 1952 Nov. p. 33. Bains, G. S., 1954 Oct. p. 49. Bainton, Cedric R., 1968 July p. 25. Baird, Donald, 1967 Sept. p. 104. Baird, Spencer F., 1949 Sept. p. 13; 1952 Jan. Baird-Atomic Incorporated, 1967 Feb. p. 101. Baisogolov, G. D., 1955 Oct. p. 31. Bajer, Andrew, 1961 Sept. p. 108, 118. Bakanowski, A. E., 1959 June p. 124. Bakelite Company, 1955 Aug. p. 49. Baker, Alan, 1973 Nov. p. 87; 1977 July p. 131. Baker, Benjamin, 1954 Nov. p. 67. Baker, D. James Jr., 1970 Jan. p. 114. Baker, F. L., 1971 Aug. p. 37. Baker, George, Sir. 1961 Nov. p. 61, 64; 1969 July p. 38; 1971 Feb. p. 21. Baker, H. D., 1975 Mar. p. 68. Baker, Herbert, 1973 Apr. p. 97. Baker, James G., 1952 July p. 47, 48; 1957 Dec. p. 41; 1972 July p. 50; 1976 Nov. p. 92, 93. Baker, John R., 1949 June p. 47. Baker, Mary A., 1969 Jan. p. 92. Baker, Paul T., 1970 Feb. p. 53, 55. Baker, Peter, 1970 May p. 82. Baker, Peter F., 1966 Mar. p. 74. Baker, R. F., 1953 Mar. p. 40. Baker, Robert H., 1949 Dec. p. 53. Baker, Robert M. L. Jr., 1962 Oct. p. 59. Bakewell, Robert, 1958 June p. 55; 1959 Aug. p. 98. Bakhtadze, Senia, 1949 May p. 26. Bakken, Aimée H., 1973 Mar. p. 39. Bakker, C. J., 1954 Sept. p. 74; 1955 May. p. 50. Bakker, Robert T., 1968 July p. 55; 1971 Mar. p. 4S; 1975 Apr. p. 58. Bakul, V., 1975 Nov. p. 105. Bakwin, Harry, 1972 July p. 76. Balakovskii, I. S., 1974 June p. 85. Balam, Chilam, 1955 May p. 88; 1956 Dec. Balamio, Ferdinand, 1957 Mar. p. 108. Balashek, S., 1955 Feb. p. 93, 94. Balbiani, B. G., 1950 Sept. p. 57. Balbiani, E. G., 1964 Apr. p. 53.

Balch, C. C., 1955 Sept. p. 78. Balch, R. E., 1956 Aug. p. 102. Baldaeus, Phil, 1955 Dec. p. 76. Baldamus, W., 1950 Aug. p. 31. Balduzzi, Piero, 1972 Jan. p. 28, 30. Baldwin, Barrett S. Jr., 1978 Mar. p. 84. Baldwin, Ernest, 1963 Nov. p. 110, 112. Baldwin, J. M., 1964 Oct. p. 114. Baldwin, John, 1966 Aug. p. 34. Baldwin, Ralph B., 1952 Oct. p. 57; 1958 July p. 38; 1965 Nov. p. 50; 1973 July p. 51. Bales, Robert F., 1951 Feb. p. 28; 1972 Aug. Balescu, Radu, 1975 Dec. p. 65. Balewa, Alhaji Sir Abubakor Tafawa, 1963 Sept. p. 171. Balick, B., 1973 Jan. p. 45. Ball, Alice D., 1948 Nov. p. 25. Ball Brothers Company, 1963 Aug. p. 33. Ball, C., 1971 Oct. p. 32. Ball, David P., 1964 May p. 96. Ball, John A., 1973 Oct. p. 51. Ball, Karlene, 1977 Jan. p. 73. Ball, Max W., 1949 May p. 53. Ballantine, J. B., 1959 Sept. p. 183. Ballard, Robert D., 1977 Nov. p. 74. Ballentine, Robert, 1957 Jan. p. 98. Balls, A. K., 1961 Feb. p 90; 1964 Dec. p. 75; 1974 July p. 77. Balmer, Johann J., 1965 May p. 68; 1972 Jan. p. 79. Balsamo, Michael R., 1966 July p. 33. Balser, Martin, 1961 Feb. p. 72. Balsley, J. R., 1961 June p. 156. Baltay, Charles, 1966 Aug. p. 42; 1970 Feb. p. 73. Baltimore City Hospitals, 1962 Jan. p. 100; Oct. p. 48. Baltimore, David, 1970 Sept. p. 82; 1972 Jan. p. 29, 31; 1974 Feb. p. 38; 1975 Dec. p. 48; 1978 Feb. p. 123. Baltimore (Md.) Health Department, 1971 Feb. p. 22, 23. Baluda, Marcel A., 1972 Jan. p. 28; 1973 Sept. p. 69. Balzac, Honoré de, 1949 Oct. p. 31; 1977 Oct. p. 132. Balzarini, David, 1968 Sept. p. 124. Bamatter, F., 1957 Apr. p. 62. Bamford, C. H., 1954 July p. 57, 58; 1969 Aug. p. 93. Ban, L. L., 1973 May p. 35. Bancroft, John S., 1969 May p. 65. Bandura, Albert, 1964 Feb. p. 39. Bandy, Orville L., 1972 Dec. p. 33. Banfield, William G., 1953 Dec. p. 38, 39. Bang, F. B., 1949 Sept. p. 20. Bang, O., 1960 Nov. p. 64; 1972 Jan. p. 26; 1973 Oct. p. 26. Banga, J., 1963 Apr. p. 106. Bangham, A. D., 1972 Feb. p. 34. Bangham, T. H., 1970 Nov. p. 62. Bank of Delaware, 1966 Sept. p. 147. Bank of England, 1960 Sept. p. 184, 187. Bankers Trust Company, 1966 Sept. p. 147. Banks, Edward, 1965 May p. 79. Banks, G. T., 1971 July p. 28. Banks, J. A., 1963 Sept. p. 64. Banks, Joseph, Sir, 1953 Mar. p. 88, 89, 92, 94; 1956 Aug. p. 68; 1965 Jan. p. 88, 89; 1968 Dec. p. 106; 1977 Aug. p. S1. Banner, H., 1963 Nov. p. 102. Bannister, F. A., 1955 Nov. p. 43; 1975 Nov. p. 102 Bannister, Roger, 1976 June p. 109, 110, 114. Banno, S., 1978 Apr. p. 128.

Banta, A. M., 1959 Apr. p. 155.

Banting, Frederick G., 1949 Dec. p. 13: 1950 Sept. p. 73; 1958 May p. 99; 1967 Nov. p. 26; 1976 Feb. p. 55. Bantock, C. R., 1961 Sept. p. 138, 140. Banuazizi, Ali, 1970 Jan. p. 34. Banwell, John G., 1971 Aug. p. 18. Bappu, M. K. V., 1961 Jan. p. . Baquir, Taha, 1953 Jan. p. 27. Barabashov, Nikolai, 1966 Mar. p. 56. Barandun, S., 1957 July p. 96. Baranowski, F. P., 1973 Aug. p. 43. Baranska, Wanda, 1973 Jan. p. 31. Barany, Robert, 1967 Nov. p. 26. Baraona, Enrique, 1976 Mar. p. 30, 33. Barasch, Louis, 1962 Nov. p. 97. Barazangi, H., 1975 May p. 16. Barazangi, Muawi, 1968 Dec. p. 65: 1975 Nov. p. 91. Barbarossa, Friedrick, 1954 Feb. p. 90. Barber, David J., 1967 Sept. p. 118; 1973 July p. 73. Barber, Marshall A., 1950 Oct. p. 49. Barber, Mary, 1960 May p. 95; 1961 Mar. p. 66. Barber, Robert, 1978 Feb. p. 97. Barber, Theodore X., 1957 Apr. p. 54. Barber, W. C., 1966 Nov. p. 111. Barbera, Anthony J., 1974 June p. 50. Barberi, Franco, 1970 Feb. p. 35. Barbier, D., 1967 Nov. p. 60. Barbour, Henry G., 1960 July p. 106, 111; 1961 Jan. p. 137. Barbour, Thomas, 1950 Jan. p. 53. Barcilon, Albert I., 1976 Mar. p. 51. Barclay, A. E., 1952 July p. 72, 73. Barcos, Martin de, 1954 Mar. p. 37. Barcroft, Joseph, 1950 Sept. p. 73; 1951 Oct. p. 57; 1955 Dec. p. 60, 65, 68. Bard, Philip, 1948 Oct. p. 27, 31. Barda, Jean C. de, 1976 June p. 26, 27. Bardach, John E., 1971 May p. 99. Bardeen, James M., 1967 Nov. p. 97; 1977 Jan. p. 36. Bardeen, John, 1948 Sept. p. 54, 55; 1951 Augp. 14; 1952 July p. 29; 1955 July p. 52; 1956 Dec. p. 52; 1957 June p. 72; Nov. p. 94, 96; 1958 Sept. p. \$1, 123, 118; 1960 Mar. p. 78; 1961 July p. 132; 1964 June p. 56; Aug. p. 39; 1965 Feb. p. 21; Oct. p. 60; 1967 Mar. p. 117; Nov. p. 25, 28; 1968 Mar. p. 103; 1971 Mar. p. 76; Apr. p. 83; Nov. p. 26; 1972 Dec. p. 41; 1973 Aug. p. 49; Dec. p. 55; 1975 May p. 42; 1976 Dec. p. 64. Bardenhaur, P., 1965 Jan. p. 43. Bardet, Joan, 1951 Aug. p. 49. Barfield, Ronald J., 1976 July p. 48; 1977 May p. 109. Barger, A. C., 1961 Oct. p. 88 Barger, George, 1971 June p 95 Barger, Richard L., 1969 Dec. p 93 Barghoorn, Elso S., 1956 July p. 92, 1962 Dec. p. 70; 1964 Nov p. 35; 1965 Apr p 60; 1967 Jan. p. 38; 1968 May p. 50, 1969 July p. 95. 1970 Sept. p. 45, 52; 1971 May p. 30, 1972 Apr. p. 63; 1975 May p 82, Sept. p 85 Bargmann, Sonja, 1953 Sept. p 52 Bargmann, Wolfgang L., 1909 July p 60 Barham, Eric G., 1962 Aug. p. 47 Bar-Hillel, Yehoshua, 1956 Jan p 30 Barile, Michael F., 1962 Mar p. 118 Barish, Barry C., 1974 Feb p 80 Barker, Clyde F., 1974 Apr. p. 38, 39 Barker, David, 1972 May p 34 Barker, Edwin S., 1975 Sept. p. 74. Barker, Horace A., 1954 Jan. p. 35; 1460 Feb Barker, Levellys F., 1970 Aug. p. 48 Barker, Robert, 1950 Jan p. 29

Barkhausen, Heinrich, 1956 Jan p 34, 35 Barkla, C G, 1967 Nov p 26 Barkley, David S, 1969 June p 83, 84 Barletti, Nicolas A, 1976 Sept p 140 Barlow, G W, 1949 Nov p 21, 22 Barlow, Horace B, 1964 Mar p 113, 1965 Jan p 50, 1968 Feb p 52, 1969 May p 109, 111, 1972 Aug p 90, 1977 July p 111 Barlow, John S, 1970 July p 43 Barlow, Robert B Jr., 1972 June p 94 Barmat, Melvin, 1959 July p 71 Barnafi, Livio, 1956 Nov p 70 Barnard, Chester I, 1949 Dec p 26, 1952 Jan p 38, 1954 Mar p 30, 32, 1956 Feb p 50, Mar p 50, 1957 Nov p 45, 1958 May p 54 Barnard, Christiaan, 1978 May p 88 Barnard, E A, 1961 Feb p 91 Barnard, Edward E, 1948 May p 35, 1952 Oct p 55, 1972 Aug p 56, 1975 Jan p 26, Sept p 71, 146, 1977 June p 66, 68, 69 Barnes, Aaron, 1975 Dec p 42, 1976 May p 96 Barnes, Anthony, 1976 May p 74 Barnes, Arnold, 1964 Mar p 69 Barnes, Arthur H , 1970 Aug p 24, 25 Barnes, C B, 1953 Sept p 84 Barnes Engineering Company, 1967 Feb p 97 Barnes, H D, 1957 Mar p 134 Barnes, Jean, 1964 Nov p 60, 1967 Oct p 119 Barnes, Marion, 1953 Feb p 72 Barnes, R. Bowling, 1967 Feb p 94, 96-99, 102 Barnes, R H, 1972 Feb p 28 Barnes, R. S., 1969 June p 30, 32, 1976 Dec p 114 Barnes, Robert P, 1950 Dec p 26 Barnes, Virgil E, 1962 Dec p 69, 1964 Feb p 50 Barnett, Arthur M., 1975 Mar p 79 Barnett, Audrey, 1975 Feb p 79 Barnett, B L, 1977 July p 104 Barnett, Leslie, 1962 Mar p 69, Oct p 66, 1963 Jan p 55 Barnett, Lincoln, 1954 Feb p 42 Barnett, M A F, 1955 Sept p 126 Barnett, Michael, 1975 Oct p 50 Barnett, R. D., 1954 Jan p 46 Barnicot, N. A., 1968 May p. 113 Barns, Aaron, 1971 Aug. p 70 Barnum, Phineas T , 1967 July p 102, 103, 108 Barnwell, Patricia, 1968 Feb p 86 Barogenics Incorporated, 1965 May p 39, 44, Baron, Samuel 1961 May p 55, 57, 1963 Mar p 91, Oct p 50, 1969 Jan p 46 Baroni G, 1956 June p 41 Barr Edward, 1964 Feb p 67, 1965 May p 31, 33 35 Barr Frank T, 1972 Dec p 35 Barr, Murray L. 1954 Dec p 60, 1963 July p 58 62, 1971 Nov p 34 Barr Nathaniel 1967 Feb p 80 Barr William L, 1966 Dec p 26 Burr Y M 1973 Oct p 30 Barrai Italo, 1969 Aug. p 30 35 Barreca Ferruccio, 1975 Feb p 81 Barrel Joseph 1962 July p 58 Barrell Barclay G 1969 Nov p 58 1974 June p 50 1977 Dec p 56 Barrell Bart 1976 Jan p 73 Barrer R M 1959 Jan p 87 Barrett Alan II 1961 May p 62, 1963 July p 82, 94, 1965 July p 28 30, 1966 Jan p 49 1967 Oct p 50 1969 Feb p 42 1973 Mar p 56, 1978 June p 94 101 Barrett Charles 5 Jr., 1966 June p 56, Oct Barrett Joseph J. 1868 Sept. p. 124 Battett Peter I 1965 Apr p 44

Barrett, Robert, 1973 May p 97, 98 Barrett-Hamilton, G E H, 1967 Jan p 79, 84 Barringer, D M, 1958 July p 33, 1965 Oct p 26 Barrnett, Russell J, 1975 Oct p 37, 1977 Aug. p 109, 111 Barron, E. S Guzman, 1948 Dec p 35, 1949 Sept p 13, 15, 1951 Dec p 23, 1959 Sept p 97 Barros-Pita, J C, 1977 July p 118 Barrow, Isaac, 1955 Dec p 74, 75 Barry, John M, 1957 Oct p 121, 128, 1958 Feb p 36, 1969 July p 66 Barski, George, 1969 Apr p 26, 1974 July p 36 Barsukov, O M, 1975 May p 21 Bart, Leon P I de, 1949 Jan p 31 Bartee, Gary, 1975 Mar p 98, 99 Bartee, Thomas C, 1962 Feb p 104 Bartel, W, 1973 Nov p 41 Bartell, Pasquale, 1956 Apr p 64 Bartels, E. C, 1958 June p 73 Bartels, Johann M, 1977 July p 124 Bartels, Julius, 1955 Feb p 42, 1968 Nov p 90, 1975 Sept p 161 Barth, Carl, 1971 Oct p 102 Barth, Charles A, 1966 Mar p 106, 108, 1977 July p 39 Barth, Fredrik, 1952 Oct p 64 Barth, John, 1967 May p 48 Barth, Lester G, 1977 Nov p 138 Barth, Lucena J, 1977 Nov p 138 Barth, Thomas F, 1962 Dec p 60 Barthel, T S, 1957 May p 43 Barthelme, John, 1978 Apr p 98 Barthold, V V, 1963 Aug p 61 Bartholdi, Frederic A, 1974 Feb p 98 Bartholin, Thomas, 1976 Jan p 112 Bartholomew, George A, 1972 Mar p 27, 28, 1973 Apr p 97 Bartholow, Roberts, 1973 July p 96 Bartlett, Frederic, Sir, 1950 Sept p 81, 1971 Mar p 99 Bartlett, M. Frederick, 1956 Sept. p. 113 Bartlett, Neil, 1962 Nov p 76, 1964 May p 69, 1974 Aug p 48 Bartlett, Paul D, 1954 Sept p 86, 1956 June p 122, 1957 Mar p 92, 1958 Aug p 66, 1960 May p 136 Bartlett, Roscoe G, 1956 June p 54 Bartlett, William E., 1973 Mar p 87 Bartok, Bela, 1959 Dec p 116 Bartoli, Daniel, 1968 Feb p 75 Barton, Derek H R., 1969 Dec p 48, 1970 Jan p 58 Barton, Lela V, 1959 Apr p 80 Barton, Ous, 1951 Aug p 28, 1953 July p 82 Barton, Richard D. 1978 June p 66 Barton-Browne, Lindsay, 1961 May p 140, 142 Barton Wright, E. C., 1964 Mar p 60 Bartram, William, 1970 Nov p 38 Bartz, Quentin R., 1949 Aug. p 32, 1956 Oct p 82 Baruch Bernard M., 1949 Mar p. 19, June p 14 1950 Jan p 13, 1956 Nov p 83 Bary Anton de, 1956 May p 98 Bar-Zeev, Micha, 1975 July p 109 Bascom Willard, 1959 June p 78, Aug. p 66, 1960 Aug. p 81, 1961 May p 76, 1969 Sept p 64, 1974 Aug. p 16 Basedow, Karl von, 1960 Mar p 129 Baserga, Renato, 1964 Feb p 58, 1965 Oct p 81, 1966 Jan p 39 Bashenina N V, 1960 Jan p 67 Bashkirtsev, Marie, 1949 Oct. p. 31 Basic Science Foundation 1955 Dec. p. 54 Basilevich, N. 1, 1970 Sept. p. 149 Basilio, Carlos, 1962 Feb p 76 Mar p 68

Basınski, Jane M., 1964 Jan p 40, 41 Baskerville, John, 1969 May p 62 Basmajian, John V, 1964 Mar p 58 Basov, Nikolai G, 1958 Dec p 42, 1964 Dec p 60, 1967 Nov p 28, 1968 Sept. p 134, 1971 June p 27, 1974 June p 24 Bass, Arnold M., 1957 Mar p 91, 1960 May p 137, 1966 Oct p 70 Bass, David E., 1968 Feb p 94 Bass, George F, 1961 Sept p 92, 1971 Aug p 23 Bass, Michael, 1969 Feb p 33 Bass, Milton J, 1958 Jan p 78 Bassalygo, L. A., 1978 June p. 120, 123, 124 Basset, James, 1955 Nov p 44 Bassett, H L, 1964 June p 85 Bassett, Preston, 1971 Feb p 107 Bassham, James A, 1961 Oct p 81, 1965 July p 74, 1969 Dec. p 70, 1974 Dec p 72 Bassi, Agostino, 1956 Aug. p 97 Bassot, Jean-Marie, 1971 Jan p 65, 1976 May p 74, 82, 83 Bassuk, Ellen L, 1978 Feb p 46 Basten, Anthony, 1974 Nov p 64 Bastianelli, Giuseppe, 1952 June p 23 Bastien, Pierre, 1974 Dec p 129 Bastock, Margaret, 1973 Dec p 24 Batchelor, F R., 1961 Mar p 69 Batchelor, G K, 1954 Sept p 136 Batchelor, W H, 1954 Feb p 58 Bateman, Alan M., 1960 June p. 148 Bateman, R, 1952 June p 38 Bateman, W G, 1961 June p 139 Bates, Gaylord S, 1951 Jan p 30 Bates, Henry W, 1948 May p 12, June p 17, 1953 July p 82, 1959 Feb p 74, 75, 79, 1969 Feb p 27, 28, 1973 Dec p 67 Bates, J A V, 1973 July p 100 Bates, Lynn S, 1965 Aug p 44, 1969 Nov p 58, 1974 Aug. p 76 Bateson, Frank M, 1959 Nov p 92 Bateson, Gregory, 1948 Nov p 15, 1950 Sept p 88, 1962 Aug. p 71 Bateson, William, 1956 Dec p 127, 1966 July p 58 Batson, Raymond, 1973 Jan p 56 Battelle Memorial Institute, 1949 Apr p 49, 1953 June p 50, 1956 Sept p 110, 1958 July p 50, 1961 Jan p 84, 1966 Oct p 64, 1968 July p 97, 1971 Mar p 47, Nov p 15, 1976 Oct p 93 Battelli, Frederic, 1951 July p 18, 1968 July p 19 Batterman, Boris W., 1969 July p. 73 Batusov, Yu, 1978 June p 68 Baudelaire, Charles, 1958 Sept p 162, 1969 Dec p 19, 1977 Oct p 132 Baudhuin, Pierre, 1963 May p 71 Baudot, Emile, 1972 Aug. p 76, 80, 83 Bauer, Carl A. 1948 May p 41, June p 56, 1954 Nov p 39, 1974 July p 66 Bauer, H L Jr , 1954 Oct. p 36 Bauer, Hans, 1964 Apr p 50 Bauer, Johannes H., 1951 June p. 45, 46, 47, 50 Bauer, Louis A., 1954 Feb p 40 Bauer, Louis H., 1953 Feb p 42 Bauer, Raymond A., 1962 May p. 47, 48 Bauer, S. H., 1948 Nov. p. 24 Bauer, W. Dietz, 1975 Apr. p. 90 Bauer, Walter, 1949 Dec. p 28, 1950 Mar p 33 Baughman, Robert W. 1973 Nov p 47 Baum, L. Frank, 1975 May p. 84 Baum, William A. 1956 Oct p 66 Bauman Robert E., 1975 July p 45 Baumann, Euben, 1960 Mar p. 119, 1971 June Baumeister, Philip, 1970 Dec p 59

Baumhauer, A. G., 1955 Jan p. 38 Baumhover, A H, 1960 Oct p 57 Baur, Erwin, 1960 Aug p 139 Bausch & Lomb, Inc , 1948 Aug p 50, 1953 Apr p 46, 1961 Jan p 103, 1976 Aug p 81 Bautz, Ekkehard K F, 1962 Apr p 77, 78, 1964 May p 56, 1970 June p 44 Bavelas, Alex, 1951 Feb p 26 Bavister, B D, 1970 Dec p 48, 53 Baweja, K D, 1968 July p 108 Baxter, G P, 1953 Mar p 72 Baxter, William, 1977 Jan p 77, 79, 82 Bay, Z, 1960 Aug p 50 Bayard, Donn T, 1972 Apr p 35, 41, 1976 Sept p 70 Bayard, Robert T, 1962 Mar p 78, 80, 88 Bayer, F M, 1961 Aug p 49, 1963 Nov p 97, 99, 1977 Mar p 44 Bayer, Leona, 1973 Sept p 37 Bayerische Akademie der Wissenschaften, 1965 Bayes, Thomas, 1950 Oct p 45, 1952 Jan p 60, 61, 1955 Feb p 80, 1977 May p 126, 127 Bayfield, James, 1976 Feb p 55 Bayı, Filbert, 1976 June p 110, 111, 114 Bayle, Gaspard, 1949 Oct p 35 Bayless, Theodore M, 1972 Oct p 73, 75 Bayley, Nancy, 1973 Sept p 37, 40 Bayley, Stanley T, 1975 Apr p 95 Bayliss, William, 1949 Sept p 44, 45, 1950 Sept p 71, 1951 Oct p 57-60, 1957 Mar p 77 Baylor, Alan, 1973 Jan p 75 Baylor, Dennis A, 1970 July p 67, 1974 Jan Baylor, Edward R, 1955 July p 91, 1962 June p 134, 1964 Nov p 60 Baylor University, 1961 Apr p 94, 98, 1977 July p 46 Bayly, Helen M, Lady Hamilton, 1954 May p 83 Baym, Gordon A, 1970 Feb p 45, 1971 Feb p 30 Bayne-Jones, Stanhope, 1958 Sept p 88 Bazelon, David L, 1972 Nov p 52 Be, Allan W H, 1962 July p 102 Beach, Alice, 1953 Feb p 21 Beach, Frank, 1960 Sept p 80 Beach, H D, 1965 Feb p 86 Beadle, George W, 1948 Dec p 50, 1949 May p 16, 17, 19, 20, 1950 Sept p 58, 1954 Feb p 42, 1955 Feb p 52, 1956 Feb p 48, July p 113, Oct p 80, 84, Dec p 127, 1958 Dec p 52, 1959 Sept p 98, 160, 1961 Sept p 77, 1962 Apr p 101, 104, 108, 1965 Feb p 72, 1966 Apr p 102, 1967 May p 81, Nov p 28, 1973 Jan p 44, 1976 Sept p 51 Beadling, William, 1974 Oct p 87, 90 Beal, Virginia, 1953 Oct p 73 Beal, William, 1951 Aug p 39, 41 Beale, Ivan L, 1971 Mar p 96 Beale, John, 1952 Dec p 51 Beale, William, 1973 Aug p 85, 86 Beals, C S, 1961 Aug p 31, 1977 Jan p 95 Beams H W, 1951 June p 51 Beams Jesse W, 1951 June p 32, 45-47, 50 51, 1954 July p 37, Dec p 52, 1968 Dec p 56 Bean, Alan L, 1970 Jan p 49, 1971 Aug p 62 Bean, Charles P, 1960 July p 71, 1969 June p 39 Bean, John W, 1955 Dec p 44 Bean, Louis H, 1950 Nov p 11 Bear, Richard S., 1957 Jan p 95, Sept p 206, 1962 Apr p 68, 1966 Mar p 78, 1969 Aug p 93 Beard, Joseph W , 1954 Nov p 49, 1960 Nov p 64 Bearden J A, 1970 Oct p 69

Beardslee, Betty J, 1968 Feb p 96 Beardwood, Jillian, 1978 Jan p 109 Bearn, Alexander G, 1956 Dec p 62, 1963 July p 55, 1964 May p 88, 1969 July p 45, 1977 Oct p 100 Beatrice, Princess of Saxe-Coburg-Gotha, 1965 Aug p 88, 94, 89 Beattie, W G, 1962 Oct p 50 Beatty, Barbara, 1973 Mar p 34 Beatty, Jackson, 1974 Apr p 51 Beatty, R A, 1951 Oct p 34,36 Beauchamp, R H, 1975 Feb p 37 Beaudreau, George S, 1965 Nov p 50 Beaufay, Henri, 1963 May p 67, 71 Beaufort, Francis, 1951 Dec p 67 Beaulieu, Jacques-Louis de, 1969 May p 42, 43, Beaumont, William, 1958 Oct p 100 Beaurepaire, Alexandre M Q, 1956 May p 92 Beaurepaire, Aragão, H, 1954 Feb p 30, 32 Beaver, Paul W, 1975 Nov p 110 Bebber, Charles C, 1974 Jan p 84 Bebbington, William P, 1976 Dec p 30 Beberman, Max, 1956 Aug p 50, 1958 May p 65-69, 71 Beccari, Odoardo, 1956 June p 50 Beccaria, Giovanni B, 1965 Jan p 82 Bechmann, Helga, 1968 Nov p 56 Bechtel Corporation, 1950 Jan p 28, 1953 July p 40, 1958 May p 58, 1967 Jan p 67 Beck, Claude S, 1950 Jan p 17, 1951 Apr p 33, 1968 July p 20, Oct p 36 Beck, Edward C, 1963 Oct p 119, 120 Beck, Jacob, 1975 Aug p 62, 72, 73 Beck, Stanley D, 1960 Feb p 109 Beck, Theodor, 1971 Feb p 101 Becker, Abraham, 1968 Dec p 19 Becker, Elmer L, 1962 Aug p 118, 1973 Nov p 57 Becker, Frederick, 1976 May p 60 Becker, H, 1973 June p 87 Becker, Hans-Joachim, 1964 Apr p 57 Becker, Howard S, 1951 Oct p 46, Nov p 38,40 Becker, Joseph L, 1970 Dec p 92 Becker, R, 1969 Nov p 105 Becker, R O, 1965 Oct p 21 Becker, Udo, 1955 Feb p 44 Becker, Yachiel, 1963 Dec p 51 Becker-Freyseng H, 1955 Dec p 44 Beckerley, J G, 1953 Mar p 45 Beckers Jacques M, 1975 Sept p 49 Beckett, Samuel, 1971 Nov p 77, 1973 Aug p 47 Becklin, Eric E, 1967 June p 52, Aug p 36, 1968 Aug p 59 60, 65, Dec p 43, 1972 Aug p 59 1973 Mar p 52, 1974 Apr p 70, 72 1978 Apr p 116 Beckman, Carolyn 1973 Dec p 24 Beckwith Jonathan R, 1970 Jan p 50 June p 43, July p 49, 1972 Aug p 103 Becquerel, Antoine H, 1963 Aug p 104 1967 Feb p 95 Becquerel Edmond 1967 Feb p 102 1973 June p 44 45 Becquerel Henri 1949 July p 31, Dec p 13 1950 Sept p 29 1956 May p 41 1959 Sept p 76 176, 1967 Nov p 26, 1975 Sept p 44 Becton Dickinson and Co Central Research Division 1962 Oct p 55 Beddoes Thomas 1960 June p 108 1965 June Bede, Saint, 1951 Oct p 64, 1952 Apr p 44 Bedford, Countess of, 1977 June p 123 Bedford David 1976 June p 111 Bedford Duke of, 1949 Mar p 48

Bedford, P D , 1955 Dec p 54

Bedson, Samuel, Sir, 1964 Jan p 81, 82 Bedwell, Stephen, 1968 Oct p 62 Beebe, Gilbert W, 1973 Oct p 32 Beebe, Robert, 1967 Aug p 22 Beebe, William, 1951 Aug p 28, 1956 Jan p 98, 1958 Apr p 27, 1961 Aug p 42, 1962 Dec p 78 Beecham Research Laboratories 1960 Nov p 90, 1961 Mar p 69 Beecher, Henry K, 1955 Aug p 69, 71, 1958 Jan p 60, 62, 1961 Feb p 42, 1966 Aug p 44, Nov p 135, 1968 Sept p 85, 1974 Nov p 18 20, 1976 Feb p 25, 1977 June p Beeckman, Isaac, 1959 Oct p 162 163 Beeler, George W, 1964 July p 25 Beeler, Nelson F, 1949 Dec p 56, 57 Beer, C G, 1973 Aug p 79 Beer, J F de, 1962 Aug p 41, 42 Beer, Michael, 1971 Apr p 34 Beer, Reinhard, 1974 May p 115 Beer, Rudolf, 1968 Apr p 90 Beer, Tom, 1975 Sept p 56 Beermann, Wolfgang 1961 Sept p 130, 1964 Apr p 53, 54, 1965 June p 43, 1966 May Beersma, D G M, 1977 July p 108 Beeson, Paul B, 1957 June p 65, 66 1964 Mar p 39, 43 Beethoven, Ludwig van, 1948 July p 33, 1950 Sept p 68, 1952 June p 54, 1953 Dec p 72, 1958 Sept p 162, 1969 Nov p 78, 1972 Sept p 37, 1973 May p 29, July p 31, 1974 Nov p 78, 80, 87 Beetz, M, 1978 Apr p 115, 118 Beg, M A Baqı, 1965 Mar p 53 Begg Geoffrey, 1977 Oct p 103 Begle, E G, 1958 July p 47 Behier Louis J, 1971 Jan p 96, 97 Behmann, Heinrich, 1972 July p 41 Behnke, A R, 1949 July p 55 Behrend, Hilde, 1950 Aug p 31 Behrendt, John C 1962 Sept p 163, 166 Behrens, Martin, 1953 Feb p 53 54 Behrens, Otto K, 1961 Mar p 67 Behrensmeyer A K 1978 Apr p 98 Behring Emil A von, 1949 Dec p 13 17, 1951 Feb p 48, 1967 Oct p 81, Nov p 26, 1968 Apr p 71 76, 1970 Aug p 34 1973 July p 55 Beijerinck Martinus W 1953 Mar p 41, 1968 July p 55 Beil David L 1974 June p 93 Beilby George, Sir 1968 June p 93 94 99 1974 May p 92 93 97 Beinert Helmut 1959 Aug p 122 Beirne Joseph A 1966 Mar p 55 Beirtillon Alphonse 1954 Jan p 73 75 Beiser Sam M 1958 Nov p 54, 1969 Jan p 44 Beisson Janine 1975 Oct p 33 Bekenstein Jacob D 1977 Jan p 36 37 Bekesy Georg von 1961 July p 114 Sept p 238 Dec p 74 1967 Nov p 25 28 1972 June p 96 Bekhterev V M 1970 Mar p 68 Bel Jules A le 1967 June p 64 Belanger Leonardo F 1970 Mar p 94 Oct Belasco Giovanni B 1966 July p 41 Belgian Atomic Energy Commission 1954 Mar Belgian Congo Institute of National Parks 1962

May p 128 June p 105

Belitzer V A 1958 July p 59

Belize Sugar Industries 1977 Mar. p. 117

Belisarius 1963 Dec p 116

Bell Aircraft Corporation, 1953 Oct. p. 37, 40.

Bell, Alexander G., 1949 Dec. p. 56; 1951 Sept. p. 43; 1952 July p. 58; 1954 July p. 77; 1955 June p. 70; 1958 Sept. p. 59; 1961 Aug. p. Al; 1962 July p. 133; 1964 Nov. p. 110; 1966 Sept. p. 145; 1972 Feb. p. 51, 52; Aug. p. 83; Sept. p. 99, 117; 1976 Mar. p. 111; 1977 Aug. p. 40; 1978 Mar. p. 60, 62. Bell Canada, 1978 Mar. p. 59-61. Bell, Charles, Sir, 1957 Mar. p. 112; 1968 Apr. Bell, Chichester, 1976 Mar. p. 111. Bell, Daniel, 1966 Mar. p. 55. Bell, Eric T., 1949 Aug. p. 48; 1953 July p. 66; 1954 June p. 79; Aug. p. 23; 1972 July p. 39; 1977 July p. 131. Bell, Eugene, 1969 Dec. p. 54. Bell, G. M., 1974 May p. 67. Bell, Jocelyn, 1968 Oct. p. 27; 1971 Jan. p. 49. Bell, John S., 1964 Dec. p. 62. Bell, Julia, 1971 Apr. p. 106. Bell, Laird, 1956 May p. 54. Bell, Melville, 1972 Feb. p. 51. Bell, Paul H., 1963 July p. 51. Bell, Richard H. V., 1971 July p. 86; 1973 Dec. p. 104. Bell, Robert E., 1963 May p. 116, 117, 122, 126; 1978 June p. 66. Bell, S. J., 1968 Apr. p. 42. Bell, Samuel D. Jr., 1964 Jan. p. 83, 84. Bell Telephone Company, 1953 Mar. p. 30; 1966 Sept. p. 130; 1977 Aug. p. 40. Bell Telephone Laboratories, 1948 July p. 34, 36, 40; 1949 Apr. p. 33, 29; Sept. p. 28; 1950 May p. 46; 1952 June p. 38; July p. 29, 32; Aug. p. 43, 48, 49, 51; Sept. p. 116, 121, 124; 1954 May p. 58; June p. 45; July p. 37-40; 1955 Apr. p. 48; June p. 92; July p. 52; Sept. p. 69; Oct. p. 48; Dec. p. 103, 110; 1956 Jan. p. 31; 1957 Jan. p. 49; Nov. p. 92, 94; 1958 Jan. p. 52; Sept. p. 117, 118, 125; Dec. p. 49; 1959 June p. 123, 124, 127; 1960 Apr. p. 88; May p. 145; June p. 84, 98, 104; July p. 65, 66; Sept. p. 90, 96; Oct. p. 151; Nov. p. 92; 1961 Mar. p. 91; Oct. p. 94, 95, 98, 102; 1962 Feb. p. 97, 100, 102, 104; Mar. p. 70; Apr. p 148; June p. 60-62, 64-67, 134; July p. 142; Sept. p. 99; Oct. p. 79, 86; Nov. p 94, 97, 100; 1963 Mar. p. 106; May p. 95; June p. 63, 64, 97, July p 34, 36-38, 42; Aug. p. 29; Nov. p. 52, 53, 87, 1964 Feb. p. 103, Apr. p. 42, 43, 45; June p. 72, 80; Aug. p. 13; Sept. p. 149; 1965 Mar p. 32, 33, 35, 37, 39, 40; May p. 63; Nov p 56-59, 68, 103; 1966 Jan p 19-21, 25; Aug. p 29, 31, 36; Sept. p 67, 73, 145, 148-150; Nov. p 112; 1968 June p 17, 19, 22 Aug. p 24, 26, 30; Sept p 120, 124, 132, 143, 144, 148, Dec p. 38; 1969 Oct p 46; 1970 Feb p 31, Apr. p. 46, June p. 29, 60, 66, 81 Oct. p 54, 1971 Apr p 26, 27, June p. 78-80, July p 32, 38, Aug. p 83, Oct p 91, Nov. p 22, 28, 31, Dec. p 93, 1972 Feb p 49, 54, 56, 58, Sept. p. 117, 120, 133, 136-138; Oct. p. 51, 54, 1973 Feb p 89, 97, Apr p 44, 69, May p 30, June p. 93; Aug. p 49, 1974 Nov p 80, 1975 Apr. p 38, 1976 Dec. p 53, 1977 May p 40, Aug. p 46, 48, Sept p. 74, 196, 197, 206, 202 Bell, W. E., 1960 Oct. p. 77, 1973 Feb. p. 89 Bellamy, L. J., 1970 Nov. p. 70 Belleon, Inc., 1971 Aug. p. 68 Bellerophon, 1954 May p. 71 Bellettini, G. 1973 Nov p. 42. Belli, Giuseppe, 1970 May p. 116, 121, 122 Bellicard, J. B., 1969 Aug. p. (6) Bellin, Judith S., 1968 Sept. p. 168, Belliau, Le renzo, 1953 Jun p 41

Bello, Alhaji Sir Ahmadu, 1963 Sept. p. 171. Bello, Francis, 1971 May p. 55; 1972 Feb. p. 81. Bello, Jake, 1967 Mar. p. 49. Bellomo, Ettore, 1968 July p. 35. Belluschi, Pietro, 1955 Mar. p. 45; 1974 Feb. Belous, Leon P., 1969 Nov. p. 56. Belousov, B. P., 1974 June p. 82. Beloussov, V., 1960 Apr. p. 83. Belsky, M. A., 1958 June p. 97. Belt, Elmer, 1971 Feb. p. 110. Belt, Thomas, 1948 June p. 18; 1978 Apr. p. 142. Beltis Atomic Power Laboratory, 1970 Nov. Belton, Michael J. S., 1970 Mar. p. 62. Beltrami, E., 1969 Nov. p. 88, 89. Belyayev, V. A., 1968 Oct. p. 48. Ben C. Gerwick Incorporated, 1958 July p. 29. Ben Tabiah, Berit, 1977 Jan. p. 101. Benabud, Ahmed, 1969 Dec. p. 22, 23 Benacerraf, Baruj, 1973 July p. 57; 1977 May p. 76; Oct. p. 97. Bénard, H., 1969 Nov. p. 105, 112. Bence-Jones, Henry, 1967 Oct. p. 86; 1977 Jan. p. 52 Bendall, Fay, 1969 Dec. p. 63, 64, 69, 70; 1974 Dec. p. 71. Bender, Morris B., 1972 Dec. p. 75. Bender, Myron L., 1964 Dec. p. 72, 73. Bender, Peter L., 1960 Oct. p. 78; 1969 Dec. p. 93; 1970 Mar. p. 38. Bender, Welcome W., 1955 Oct. p. 46. Bendetti, Sergio de, 1965 Jan. p. 106. Bendex Corporation, 1971 Aug. p. 68. Bendich, Aaron, 1958 Nov. p. 54. Bendick, Jeanne, 1949 Dec. p. 52, 53, 57. Benditt, Earl P., 1969 June p. 43, 44; 1973 Aug. p. 44; 1977 Feb. p. 74, 78, 81, 84. Benditt, John M., 1973 Aug. p. 44. Bendix Aviation Corporation, 1956 Mar. p. 90; 1970 Mar. p. 41. Bendix Research Laboratories, 1963 Mar. p. 116. Bendoraitis, J. G., 1967 Jan. p. 37. Benedek, George B., 1968 Sept. p. 124. Beneden, Edouard van, 1968 June p. 82, 84; July p. 55; 1972 Dec. p. 94, 95. Benedetti, Sergio de, 1960 May p. 89; 1961 Mar. p. 99; 1962 Mar. p. 74; 1963 Feb. p. 144; 1966 Apr. p. 93; 1975 July p. 34. Benedetti-Pichler, A., 1954 Feb. p. 76. Benedict, Francis G., 1965 May p. 88; 1971 Oct. p. 102, 14. Benedict, R. G., 1952 Apr. p. 50. Benedict, Ruth, 1956 May p. 71. Benedict, William, 1954 Dec. p. 44. Benedict, William S., 1965 Jan. p. 33; 1975 Sept. p 75. Benenson, Walter, 1978 June p. 67. Benesch, Reinhold, 1964 Nov. p. 75. Benesch, Ruth E., 1964 Nov. p. 75. Benézet, Saint, 1954 Nov. p. 62 Benfield, A. E., 1950 Dec. p. 56. Benford, Frank, 1969 Dec. p. 109-113, 118, 120. Bengen, M. F., 1962 July p. 85. Benhet-Clark, H. C., 1972 Feb. p. 44. Beninde, J., 1954 May p. 79, Benioff, Hugo, 1955 Sept. p. 56; 1959 Mar. p 138, 1962 Mar. p. 131, July p. 58; 1965 Nov p 30, 31, 37, 1969 Nov. p. 105, Dec. p. 89, 1973 Aug p 63, 69, Benirschke, Kurt, 1974 Apr. p. 51. Benjamin, 1973 Oct. p. 35. Benjamin, Bernard, 1965 Sept. p. 44. Benjamin, John, 1953 Apr. p. 45; Oct. p. 74, 76. Benjamin of Inadela, 1957 Mar. p. 121.

Benjamin, T. L., 1967 Apr. p. 32.

Ben-Menahem, Ari, 1965 Nov. p. 37. Benndorf, Hans, 1975 Feb. p. 96, 97. Bennet, Charles, 1955 Oct. p. 100. Bennett, Dorothea, 1977 Oct. p. 99. Bennett, Edward L., 1955 Feb. p. 58; 1965 Jan. Bennett, Emmett L. Jr., 1954 May p. 73. Bennett, H. Stanley, 1961 Sept. p. 176. Bennett, Ivan, 1957 June p. 65, 68. Bennett, Ivan L. Jr., 1964 Mar. p. 39; 1970 May p. 16. Bennett, J. A., 1976 Jan. p. 63. Bennett, J. Claude, 1974 Nov. p. 69. Bennett, James G., 1972 May p. 105. Bennett, M. F., 1954 Apr. p. 35. Bennett, Michael V. L., 1960 Oct. p. 121, 123; 1970 May p. 81, 84; July p. 60; 1977 Feb. p. 115; 1978 May p. 147. Bennett, Stanley, 1970 Apr. p. 85. Bennett, W. R., 1963 July p. 38. Bennett, W. R. Jr., 1961 June p. 54, 58. Bennett, Wendell C., 1954 Aug. p. 29. Bennett, Willard H., 1970 Aug. p. 25, 27. Bennett-Clark, H. C., 1970 July p. 85; 1973 Nov. p. 92. Benoit, Jacques, 1971 Apr. p. 72; 1972 Mar. p. 22, 25, 26, 28. Bensley, Robert D., 1951 Jan. p. 30. Bensley, Sylvia H., 1957 July p. 133. Benson, Andrew A., 1948 Aug. p. 32; 1951 Mar. p. 41; 1953 Nov. p. 83; 1960 Nov. p. 108; 1962 June p. 92; 1965 July p. 77; 1969 Dec. p. 70; 1973 Oct. p. 82; 1975 Mar. p. 77. Benson, William E., 1963 Oct. p. 56; 1972 Dec. p. 33. Bent, Arthur, 1953 July p. 34. Bent, Henry A., 1968 Jan. p. 121. Bentele, M., 1972 Aug. p. 16. Bentham, Jeremy, 1954 Oct. p. 33; 1955 Oct. p. 103. Bentink, Conte de, 1957 Dec. p. 118. Bentley, A. F., 1950 Sept. p. 84. Bentley, C. R., 1960 Mar. p. 86. Bentley, David, 1974 Aug. p. 34, 35, 38, 43. Bentley, K. W., 1966 Nov. p. 132. Bentley, Richard, 1970 June p. 29. Benton, Jeanne L., 1976 Feb. p. 58, 59; 1977 Dec. p. 112. Benton, Joseph G., 1951 Feb. p. 36. Benton, Stephen, 1976 Oct. p. 80, 94, 95. Benton, William, 1951 June p. 17. Benussi, Vittorio, 1967 Jan. p. 25. Benveniste, Émile, 1972 Sept. p. 76. Benyesh, M., 1951 Sept. p. 58; 1959 Feb. p. 90. Benz, Carl, 1972 May p. 102, 104; 1973 Mar. p. 87, 88. Benzer, Seymour, 1958 Jan. p. 74; 1962 Jan. p. 83; Feb. p. 42; Sept. p. 108; Oct. p. 66; 1963 Jan. p. 55, 61; Mar. p. 86, 91; 1967 May p. 87; 1973 Dec. p. 24; 1976 Apr. p. 41; Dec. Beq, Tulah, 1973 Sept. p. 47. Beqvaert, Joseph C., 1963 Apr. p. 148. Beraldo, W. T., 1962 Aug. p. 113, 117. Beran, Anthony V., 1964 Dec. p. 64. Beranek, Leo L., 1952 June p. 38; 1966 Dec. p. 66. Berelson, Bernard, 1974 Sept. p. 118. Berends, W., 1962 Dec. p. 136. Berenyi, Ivan, 1970 Oct. p. 102. Beresford, Maurice, 1976 Oct. p. 117. Berg. Howard C., 1975 Aug. p. 36; 1976 Apr. p. 44, 45; 1978 Mar. p. 116. Berg, Paul, 1959 Dec. p. 61; 1975 July p. 26, 32. Berg, From, 1965 Nov. p. 112. Berge, Glenn L., 1964 July p. 46; 1967 Oct. p. 109.

Bergeijk, A van, 1962 June p 134 Berger, Daniel D, 1970 Apr p 74 Berger, Frank M, 1963 Mar p 96 Berger, Hans, 1954 June p 54, 55, 63, 1962 June p 142 Berger, Howard M, 1971 Nov p 48 Berger, Jonathan, 1969 Dec p 93 Berger, K C, 1965 June p 66 Berger, Peter L, 1970 Nov p 98 Berger, Rainer, 1977 Mar p 121 Berger, Robert S, 1970 Apr p 48 Bergeron, Tor, 1952 Jan p 17, 1957 Oct p 43, 1961 Jan p 120 Bergersen, F J, 1970 Sept p 144 Bergeson, Haven E, 1971 Oct p 42 Berggard, Ingemar, 1977 Oct p 100 Berggren, William A, 1978 May p 60 Bergh, Sidney van den, 1959 July p 55, 1963 Jan p 73, 1973 Dec p 46, 47, 1976 Dec p 101 Berghe, Louis van den, 1948 Oct p 24 Bergius, Friedrich, 1949 Dec p 15, 36, 1955 July p 63, 1967 Nov p 27, 1971 Dec p 50 Bergmann, Carl, 1954 Apr p 46 Bergmann, Max, 1950 June p 35, 37, 40, 1951 Mar p 41, 1961 Feb p 86, 1964 Dec p 71 Bergmann, Peter G, 1975 Dec p 65 Bergsma, Donald R, 1971 Nov p 50 Bergson, Abram, 1968 Dec p 17, 19 Bergson, Henri, 1967 Sept p 106 Bergstrand, Erik, 1955 Aug p 65, 66 Bergstrom, Sune, 1971 Nov p 84 Beria, Lavrenti P, 1949 Nov p 26, 1952 Oct p 46 Bering, Vitus, 1958 Nov p 115, 117, 1961 May p 89 Berkeley, Edmund C, 1950 Dec p 23 Berkeley, George, Bishop, 1953 Nov p 93, 1954 May p 82, 1957 Feb p 100, 106, 1961 Aug p 72, 1962 July p 128, 1967 May p 96, July p 52, 1971 Aug p 93, Oct p 30, 1972 June p 81, 82, 86, 1975 June p 78 Berking, Stefan, 1974 Dec p 51 Berkner, Lloyd V, 1950 July p 26, 1952 June p 38, 1954 Apr p 45, 1957 Jan p 49, 1959 Apr p 64, Aug p 61, 1960 Apr p 83, 1970 Sept p 118, 120 Berko, Stephan, 1975 July p 39, 41 Berkowitz, Joseph, 1968 Oct p 52 Berkowitz, Leonard, 1968 June p 42 Berkson, Joseph, 1962 July p 41 Berl, Ernst, 1955 July p 59 Berlin Academy of Arts, 1958 Mar p 96 Berlin Academy of Sciences, 1955 Oct p 104 Berlin Natural History Museum, 1963 Aug p 45 Berlin, Richard D, 1975 June p 44 Berliner, Hans, 1977 June p 56 Berlman, I, 1973 June p 48 Berlucchi, Giovanni, 1967 Aug p 29 Berlyne, Daniel E, 1966 Aug p 82, 86 Berman, Arthur I, 1963 Sept p 83 Berman, I V, 1971 Apr p 87 Berman, Leonard, 1975 Feb p 40 Berman, Robert, 1962 Dec p 96, 1967 Sept p 186, 188 Berman, Victor, 1974 Nov p 54 Bermuda Biological Station, 1962 June p 128, 1975 June p 90, 95 Bernal, Ignacio, 1967 June p 39, 46 Bernal, J D, 1948 Oct p 17, 1955 Jan p 54, 1961 Jan p 97, 1964 Nov p 64, 1965 Jan p 45, 46, 1966 Nov p 84, Dec. p 119, 122, 1969 July p 75, 1970 Sept p 47, Nov p 70, 1974 July p 77 Bernal, M J M, 1960 Aug. p 128 Bernard, Claude, 1951 Mar p 41, 1952 Jan

p 66-68, 1953 Jan p 40, 1954 Jan p 48, May p 65, 1955 Oct p 101, 1957 Jan p 74, Mar p 77, Apr p 97, 1958 Aug p 95, 1959 Nov p 76, 1961 Apr p 56, 1962 June p 151, 1963 June p 80, 1967 Aug p 67, 1968 June p 84, 1972 Jan p 87, May p 75, 1977 June p 100, 104, 107 Bernard, Etienne A, 1966 May p 25, 28 Bernard, Gary D, 1976 July p 112 Bernard, John, 1954 July p 73 Bernard, Noel, 1966 Jan p 76, 77 Bernard, P, 1953 May p 70 Bernard Price Institute, 1949 Nov p 24 Bernard, Richard L, 1975 June p 15 Bernardi, Giorgio, 1967 Nov p 70, 71, 1974 Aug p 90 Bernardini, Gilberto, 1958 Nov p 53 Bernardini, M, 1966 Nov p 111 Bernardo, Jose R, 1974 Oct p 82 Bernatzık, H A, 1957 May p 44, 45 Bernhard, Carl G, 1959 Oct p 84 Bernhard, Hans P, 1974 July p 43 Bernhard, Sidney A, 1973 Oct p 61 Bernhard, Walter, 1961 Feb p 115, Sept p 103, 105, 108, 1964 June p 48 Bernhardt, Anthony F, 1977 Feb p 92 Bernheim, Hyppolyte, 1955 Nov p 31, 1957 Apr p 54 Bernice P Bishop Museum, 1962 Sept p 220 Bernier, Robert V, 1951 July p 28 Bernoulli, Daniel, 1955 Feb p 80, June p 62, 1959 Oct p 113, 1960 Oct p 145, 1963 Oct p 42, 1965 May p 58, 1968 May p 95, 1971 Oct p 101, 102, 1973 July p 24 Bernoulli, Jakob, 1948 June p 56, 1950 Apr p 13, 1953 Sept p 128, 138, 1954 Nov p 69, 1958 Mar p 94, 95, 1967 Aug p 100, 1968 May p 95, 1972 June p 80, 82 Bernoulli, Johann, 1972 June p 80, 82 Berns, Michael W, 1970 Feb p 99 Bernstein, Allen, 1972 June p 86 Bernstein, B, 1959 Feb p 68 Bernstein, Daniel S, 1967 Jan p 58 Bernstein, Jeremy, 1964 Dec p 62 Bernstein, Joseph, 1959 Aug p 81 Bernstein, Julius, 1958 Dec p 84, 85, 1960 Oct p 119 Bernstein, Leonard, 1964 Sept p 51 Bernstein, M H, 1959 Sept p 98 Bernstein, N A, 1970 Mar p 68 Bernstein, R I, 1957 Oct p 57 Bernstein, S, 1952 Nov p 59, 61 Bernstein, Theodore, 1973 Apr p 45 Beroni, E P, 1954 Oct p 36 Beroza, Morton, 1963 May p 101, 102, 1972 Sept p 66, 1974 July p 28, 34 Berreman, Dwight W, 1966 Jan p 26 Berreman, Gerald D, 1955 June p 54, 1971 May p 46 Berridge, Michael, 1976 Aug p 63, 1977 Nov p 137 Berrill, Norman J, 1954 Feb p 42, 1957 Dec p 118, 1958 Oct p 80, Dec p 38, 40, 1959 Apr p 146 Berry, G P, 1949 July p 16 Berry, J., 1955 May p 34 Berry, M J, 1969 June p 19 Berry, Michael V, 1976 Apr p 82 Berry, P A, 1963 Nov p 106 Berson, Lawrence, 1974 Dec p 23 Berson, Solomon A, 1967 July p 105, 1970 Oct p 44, 1977 Dec p 82 Bersu, Gerhardt, 1977 Dec p 157 Bersworth Chemical Co., 1953 June p 69 Bert, Paul, 1952 Jan p 66-68, 70, 72 Bertani, Giuseppe, 1970 Jan p 88 Bertaut, F, 1968 June p 23

Bertaux, J, 1974 Feb p 55 Berthelot, Marcellin, 1972 Dec p 58, 59 Berthold, Arnold A, 1957 Mar p 77, 1976 July Berthollet, Count de, 1954 June p 81 Berthoud, E L, 1954 Oct p 36 Bertillon, Alphonse, 1973 Nov p 78 Bertles, John F, 1975 Apr p 45 Bertman, Bernard, 1970 May p 92, 101 Bertram, E G, 1963 July p 58, 62 Bertrand, Gabriel, 1968 May p 112 Bertrand, J L F, 1964 Sept p 96 Bertsch, LeRoy L, 1968 Oct p 75 Berzelius, Jons J, 1949 Dec p 35, 1950 June p 33, 1951 June p 19, Nov p 29, 1953 Sept p 100, 1957 Feb p 111, Nov p 117, 1959 Aug p 119, 1960 June p 111, 113, 1963 Jan p 89, Mar p 43, 44, 1971 Dec p 49, 1972 June p 38 Besancon, Georges, 1951 Dec p 68 Besborodov, Mikhail A, 1963 Nov p 125 Beschaouch, Azedine, 1978 Jan p 111 Bessel, Friedrich W, 1964 Mar p 101, 1968 July p 32, 1971 Dec p 80, 1977 Oct p 47 Bessels, Emil, 1969 Mar p 52 Bessemer, Henry, Sir, 1963 Dec p 76, 1968 Apr p 24 Bessis, Marcel, 1970 Feb p 99, 100 Bessman, Maurice J, 1968 Oct p 68 Bessman, Samuel P, 1966 May p 43 Besson, Jaques, 1963 Apr p 137 Best, Charles H, 1949 Dec p 13, 1950 Sept p 73, 1951 Mar p 21, 1956 Nov p 112, 1958 May p 99, 1976 Feb p 55, Mar p 25 Best, E W R, 1962 July p 41 Best, Phillip J, 1977 June p 93 Bester, M J, 1952 July p 50, 54, 57 Beswick, F B, 1970 July p 58 Betances, Ramon, 1966 Oct p 25 Betancourt, President, 1965 Sept p 123 Betchaku, Tenchi, 1963 Feb p 62 Beteille, Andre, 1967 Feb p 105 Beth, Evert W, 1972 July p 42 Beth, R A, 1959 Feb p 64 Bethe, Hans A, 1948 July p 21, 24, Sept p 22, 1949 July p 43, 1950 Jan p 43, Mar p 24, May p 11, 26, June p 11, 12, Aug p 16, Sept p 31, 1953 Jan p 34, Sept p 53, 1954 June p 44, 1955 Aug p 60, Oct p 33, 1956 Sept p 88, 91, 1957 May p 90, 91, 1958 Feb p 40, 1959 Apr p 64, Sept p 77, 79, 1960 Mar p 99, June p 80, 1961 Aug p 62, Oct p 80, 1963 Jan p 90, 1965 May p 69, 70, 1967 Dec p 48, 1968 Feb p 50, Mar p 26, 1969 Apr p 15, July p 29-31, Aug p 18, 24, 1974 May p 108, 1975 May p 42, Sept p 45 53, Oct p 108, 111, 1976 June p 48, 1978 Feb p 76 Bethlehem Steel Corporation 1952 Jan p 50 51, 53, 1963 Dec p 77, 1977 Sept p 188 Bettelheim, Bruno, 1959 Mar p 117 Bettelheim, K. A., 1970 Mar p 64 Bettes, William H, 1975 Jan p 43 Bettex-Galland, M., 1961 Feb p 64 Betti, Enrico, 1950 Jan p 19 20 23 Betz, V A, 1970 Mar p 68 Beukering, H J C, 1965 Apr p 125 Beukers R., 1962 Dec p 136 Bevacqua, S F, 1963 July p 35 40 Bevan, Aneurin, 1948 Sept p 50 51 1950 Dic p 31 Bever, Thomas, 1970 Dec p 30 Beveridge, W I B. 1953 Sept. p 51 Bevis, Howard L. 1956 May p 54 Bexton W H, 1957 Jan p 52 Beyer, Fredrik, 1965 Nov p 103 Beyer, Max. 1958 Oct p 47

Beyer, Robert T, 1955 Oct p 44 Beyle, Marie H, 1958 June p 74 Beyreuther, Konard, 1974 June p 49 Bezer, Ada E., 1949 July p 17 Bezhukoi, Count, 1973 Sept p 57, 58 Bhabha, Homi J , 1949 Mar p 35, 1955 Mar p 50, July p 50, Oct p 27-31, 1958 Oct p 28, Nov p 52, Dec p 53, 1964 Dec p 61 Bhatia, D S, 1954 Oct p 49 Bhatnagar, S S, 1950 Jan p 30 Bhatt, B D, 1971 Dec p 32 Biale, Jacob B, 1967 Mar p 52 Biancastelli, R., 1973 Nov p 41 Bianchi, L, 1970 Mar p 68 Bibring, H, 1974 Dec p 92 Bichat, M F X, 1949 Oct p 35 Bickel, H , 1956 July p 50 Bidlingmeyer, W L, 1958 Mar p 41 Biedenharn, L. C., 1954 June p. 30 Bielinski, T C, 1963 Nov p 103 Bielschowsky, Marianne, 1962 Nov p 57, 1964 May p 92 Biemann, Klaus, 1972 Oct p 85, 1977 July Bienenstock, Arthur I, 1977 May p 45 Bienstork, Herbert, 1967 Sept p 102 Bier, Otto, 1973 Nov p 65 Bierce, Ambrose, 1952 Mar p 73 Biermann, Ludwig F, 1962 Apr p 77, 1964 Apr p 68, 71, 1968 Nov p 81, 1974 Feb p 50, 1975 Apr p 113, Sept p 44, 162 Biermasz, Th, 1962 Dec p 97 Biesbroeck, George van, 1951 July p 22, 1953 Feb p 38, 1959 May p 153, 1965 Apr p 114 Biesele, John J., 1957 Aug p 93 Bietti, G B, 1964 Jan p 83 Bigbee, Daniel E., 1975 Feb p 43 Bigelow, Charles C, 1968 May p 113 Bigelow, Julian H, 1948 Nov p 14, 1966 Sept p 247 Bigelow, W G, 1958 Mar p 110, 1960 Feb p 79,80 Bigg, E. K., 1975 Sept p 147 Bigg, Keith, 1961 Jan p 122 Bigger, Joseph W, 1950 Sept p 46 Biggers, J. D., 1970 Dec. p. 51 Biggins, John, 1965 July p. 75, 83 Biggs, Geoffrey A, 1977 July p 34 Bignami, Amico, 1952 June p 23 Bijlaard, P. P., 1955 July p. 40 Bijvoet J M 1964 Nov p 69 Bilanuik O M P, 1970 Feb p 71 Bilger, R. W. 1965 Nov p 54 Bilgery, Conrad 1966 June p 110 Billig M G, 1970 Nov p 99 Billingham John 1977 Dec p 86 Billingham Rupert E. 1956 Nov p 66, 1957 Apr p 64, 1959 Oct p 62, 1961 Jan p 83, 1963 Jan p 119, 1972 June p 30 1974 Apr Billings Bruce H, 1968 June p 19 Billings Donald L. 1954 June p 48, 1958 Aug. p 39-41 Billinoslea, Ronald 1971 Oct p 44 Billingslev, Henry, 1956 Mar p 109 Billington, Douglas S. 1956 Aug. p. 82, 1959 Sept p 31 Ilills Arthur G 1963 May p 131 Biloni Herildo 1967 Sept p 90 Binder Alin B. 1975 Sept p. 146-1978 Mar p 76 Binct, Alfred 1956 Aug. p 44 Binford Lewis L. 1978 Apr p 104 Burfold Lewis R 1969 Apr p 70 Burford Sally R 1763 Apr p 70 Bullet Therman 1976 Leb p 56

Bing, Richard J, 1957 Feb p 51 Bingham Associates Fund, 1948 Oct p 7-12 Bingham, E. C., 1959 Dec. p. 122, 129, 130 Bingham Oceanographic Laboratory, 1954 Mar Bingham, William II, 1948 Oct p 7-13 Binks, W, 1955 Oct p 40 Binns, Howard R., 1969 Jan p 89 Bion, J., 1963 July p 89 Biospheres Inc , 1977 Nov p 59 Biot, Jean B, 1951 Dec p 68, 1954 June p 80, Nov p 36, 1960 July p 119, 1963 Oct p 65 Birbeck, M S C, 1960 Jan p 108, 1967 Nov p 68, 1968 May p 113, 1969 Aug. p 90 Birch, Edward, 1969 Dec p 25 Birch, Francis, 1950 Dec p 56, 1965 June p 106, 108, 1973 Mar p 33, 1977 Aug. p 66 Birch, Herbert D, 1949 Aug p 38, 1963 Apr p 128 Birch, Herbert G, 1970 Apr p 97, Aug p 102 Birch, Robert L, 1973 Feb p 49 Bird, F T, 1956 Aug p 102 Bird, H R., 1952 Apr p 54 Bird, John M., 1972 Mar p 30 Bird, Junius B, 1954 Aug. p 29, 1963 May p 117, 1964 Jan p 56, 1967 Nov p 44 Bird, Kenneth T, 1972 Sept p 143 Bird, Walter N, 1956 June p 132 Birdsall, Dale, 1958 Feb p 29 Birdsell, Joseph B , 1953 Aug. p 76, 81 Birge, R. T, 1955 Aug p 64, 1970 Oct p 69 Biringuccio, Vannoccio, 1967 Sept p 70, 74, 1977 Nov p 141, 142 Birk, Yehudith, 1964 May p 62 Birkeland, Olaf K., 1957 Apr p 138, 1964 Apr p 66, 1975 Sept p 161 Birket-Smith, Kaj, 1960 Sept p 83 Birket-Smith, S. J. R., 1978 Apr. p. 140 Birkhoff, George D, 1949 Dec p 16, 1964 Sept. p 51, 1974 Nov p 26, 1977 Oct p 112, 118 Birks, L S, 1960 Feb p 68 Birks, R., 1961 Sept p 218 Birktoft, Jens, 1974 July p 82 Birley, Enc, 1977 Feb p 39 Birley, Robin, 1977 Feb p 39 Birley, Roman, 1975 Jan p 52 Birnbaum, Morris 1965 Jan p 32 Birnstiel, Max, 1968 Dec p 34, 1973 July p 24, Bischof Walter, 1971 Jan p 41 Biscoe, Jonathan, 1951 June p 46 Bishop, G R., 1963 Jan p 44 Bishop, J A, 1975 Jan p 90, Aug p 57 Bishop, Norman I 1969 Dec p 64 Bishop P O , 1972 Aug. p 86, 89, 90 Bismarck, Otto E. L. von, 1970 Aug p 92 Bisseru, B., 1966 Sept p 104 Bissonette T H, 1955 Mar p 89 Bisti, Sylvia, 1974 Nov p 111 Bitter, B A, 1960 Oct p 57 Bitter, Francis 1949 June p 38, 1958 Feb p 33, 1960 Oct p 73, 1965 Apr p 72-74, 1967 Sept p 230, 1970 May p 57, 1971 Jan. p 55, Mar p 81, 1972 July p 73 Bitterman M E. 1967 June p 116, 1968 June n 64 66 67 75, 1969 May p 54 Bittner John J 1949 May p 28, 1960 Nov p 64 1977 May p 64 Bituminous Coal Research, Inc. 1953 Nov p 71, 1955 July p 67 Bivvoct, J. M. 1965 July p. 64-69 Bizzi Emilio 1973 July p 102. Bjalfe, G 1961 June p 139 Bjerknes Jacob 1955 Aug p 42, 1970 Sept p 63 Bjerrum Niels 1953 Oct p 44, 1966 Dec p 123 124, 1970 Nov p 112

Bjoerling, Jussi, 1975 July p 48 Bjork, Lars E., 1975 Mar p 17, 19 Bjork, Robert L, 1960 Oct. p 137, 1965 Oct Bjork, V O, 1960 Feb p 81 Bjorken, James D, 1975 Jan p 49, Oct p 47, 1976 Jan p 53, 54, July p 60, 1977 May p 56, Oct p 60 Biorkman, Olle, 1972 Feb p 42 Bjorksten, Johan, 1963 Apr p 110 Biornerstedt, Rolf, 1977 Nov p 70 Blaauw, Adriaan, 1953 Mar p 36, 1978 Apr p 114 Black, Abraham H, 1970 Jan p 36, 1977 June p 89, 98 Black, David C, 1974 May p 112 Black, Davidson, 1970 Jan p 77 Black, Duncan, 1976 June p 24-26 Black, Graham, 1966 Mar p 108 Black, Harold S, 1958 Sept p 125 Black, Hugo L, 1951 July p 30, 1967 Nov p 59, 1968 Jan p 116, 1969 Feb p 17 Black, John H, 1974 May p 114 Black, Joseph, 1954 June p 80, Sept p 60, 1958 Apr p 56, 1967 Sept. p 181 Black, Justice, 1972 Sept p 167 Black, L P, 1977 Mar p 98 Black, Lindsay M, 1953 June p 80 Black Panthers, 1971 Dec p 13 Black, Paul H, 1973 Jan p 31 Black, Theodore, 1971 July p 57 Black, William, 1969 July p 41 Blacker, C P, 1954 Jan p 72 Blackett, P M S, 1948 Dec p 26, 1949 Jan p 28, Mar p 13, 14, 16-19, Apr p 24, Oct p 14, Nov p 40-43, 1950 June p 23, 24, 1958 May p 44, 1963 Apr p 95, Sept p 209, 1967 Feb p 49, Nov p 27, 1968 Apr p 57, 59, 1969 Nov p 104 Blackler, Antonie W, 1968 Dec p 24 Blackman, F. F., 1948 Aug. p. 28 Blackman, Keith C, 1976 Jan p 74 Blackmon, John A, 1978 Feb p 84 Blacksby, Frank, 1972 Jan p 44 Blackstad, Theodor W, 1977 June p 89 Blackwell, D E., 1959 May p 52, Oct p 67-69, 1960 July p 54, 1965 May p 36, 1973 Oct Blackwell, David D, 1977 Aug. p 66 Blagonravov, Anatoli A, 1962 May p 74, 1963 Jan p 60 Blain, P., 1975 Apr p 123 Blaine, James G, 1950 Nov p 11 Blair, John E., 1959 Jan p 43, 44 Blair, Paul V., 1963 June p 77 Blais, Normand C, 1964 July p 101 Blake C C F, 1965 July p 46, 1966 Nov p 84 Blake, Judith, 1974 Sept p 32, 137, 141 Blake, Randolph, 1977 Jan p 64 Blake, Robert, 1961 Dec p 4 Blake, William, 1958 Sept p 63, 64, 1964 Sept p 131, 1971 Sept p 51, 59 Blakemore, Colin, 1968 Feb p 52, 1972 Aug. p 93, 90, 1976 Dec. p 45 Blakemore, Richard P. 1978 Mar p 72 74 Blakers, Margaret, 1976 July p. 113 Blakeslee, Albert F. 1951 Apr p 56, 1968 July Blakeslee, Alton L. 1953 Feb p 35 Blakeslee, Howard W., 1952 Aug. p. 40 Blalock, Alfred, 1950 Jan p 14, 15 16, 17, I ch p 27, 1960 Feb p 79 Blamont Jacques, 1962 Mar p 74, 1971 Dec p 29, 1974 Feb p 55 Blanc, William A. 1966 July p. 36 Blanchard Duncan C. 1972 Mar p 55, 1974 May p. 75

Blanchard, Francois, 1951 Dec p 68 Blanchard, Thomas, 1952 Sept p 107 Blanchard, William G, 1957 Jan p 45, 1959 Mar p 62 Blanchette, Joan, 1961 Sept p 58 Bland, G F, 1958 Dec p 50 Blander, Milton, 1972 Dec p 69 Blanford, George E, 1969 June p 37 Blank, David M, 1957 Sept p 106 Blank, Harvey, 1949 Nov p 50 Blank, Joel, 1971 Aug p 66 Blanqui, Jerôme A, 1963 Sept p 56 Blasie, J Kent, 1974 Mar p 28, 29, 1976 May Blasing, T J, 1972 May p 97 Blaskovic, Dionyz, 1977 Dec p 101 Blass, Symcha, 1977 Nov p 62 Blatt, John M, 1975 Dec p 65 Blattner, Frederick R, 1977 May p 55 Blau, Marietta, 1956 May p 46 Blaurock, Allen E, 1976 June p 41, 42, 1977 Aug p 94 Blaustein, Mordecai, 1970 May p 82 Blaw-Knox Company, 1962 Dec p 41 Blaxell, David, 1968 Oct p 52 Blayney, Leonard, 1965 Nov p 31, 1971 Dec Bleakney, Walker, 1949 Nov p 18, 1963 Feb p 109 Bleany, B, 1948 Sept p 18 Bledsoe, W W, 1973 Nov p 78 Bleek, Wilhelm H I, 1977 Apr p 106 Bleeker, Pieter, 1977 Mar p 107 Bleekrode, R, 1966 Apr p 39 Blegen, Carl W, 1954 May p 70, 73, 74, 1955 July p 43 Bleil, Carl E, 1967 Sept p 80 Blest, David, 1957 Oct p 52, 53, 54, 1965 Apr Bleuler, Eugen, 1949 July p 44, 1962 Aug p 65, Bleuler, Paul E, 1957 Aug p 103, 104 Blewett, Douglas, 1974 Jan p 84 Blewett, John P, 1952 July p 35, 1953 May p 43 Bliesblituth, 1960 Nov p 166 Bligh, Anthony, 1963 July p 55, 57 Bligh, William, 1953 Mar p 88-90, 92, 94, 1955 Nov p 36 Blinder, Barton J, 1968 Aug p 93 Blinks, L R, 1948 Aug p 30 Bliss, Aaron, 1974 Sept p 41 Bliss, D W, 1963 Mar p 130 Bliss, James, 1974 Jan p 51 Bliznova, Lena, 1965 Mar p 57 Blizzard, Robert M, 1973 Sept p 42 Bloch, B, 1961 July p 99 Bloch, Bernard, 1950 Jan p 48 Bloch, Emanuel, 1951 May p 34 Bloch, Felix, 1948 Sept p 22, 23, 1952 Dec p 29, 44, 1954 Sept p 63, 74, 1955 May p 50, 1958 Aug p 58 60, 64, 66, 1963 July p 114, 115, 1965 May p 68, 1967 Sept p 183, 230, Nov p 28, 1969 Jan p 131, 1973 May p 30 Bloch, Hubert, 1949 Oct p 35, 37, 39, 1955 June p 103 Bloch, Ronrad E, 1955 May p 54, 1964 Dec p 60, 1966 Nov p 65, 1967 Nov p 28 Bloch, Marc, 1974 May p 68, 1976 Oct p 120 Bloch, Rudolph, 1956 July p 104 Block, Barry, 1961 Dec p 91 Block, Felix, 1966 Nov p 64, 1975 May p 42 Block, Herbert L, 1950 Feb p 24 Block, Matthew, 1972 Jan p 50 Block, Myron, 1969 Nov p 112 Block, Seymour S, 1956 May p 62

Blodgett, Katharine B, 1970 Mar p 108, 112, 1974 May p 65 Bloedel, Prentice, 1957 Nov p 112 Bloembergen, Nicolaas, 1958 Dec p 46, 1961 June p 55, 1963 June p 99, 1964 Apr p 43, 45, 46, 1967 May p 56 Blokhintsev, Dmitri I, 1955 Oct p 33, 1956 Aug p 31, 1958 Feb p 41, 1960 Jan p 74, 1962 July p 76 Blomback, Birger, 1962 Mar p 64 Blondel, François, 1974 Oct p 85, 86, 90 Blondin, G A, 1970 Dec p 82 Blood, Benjamin P, 1957 Jan p 80, 1960 Mar Bloom, Arnold L, 1960 Oct p 72, 1962 Mar p 129, 1966 July p 75, 1973 Feb p 89 Bloom, Arthur D, 1973 June p 87 Bloom, Bernard S, 1977 Jan p 43 Bloom, Floyd E, 1975 Jan p 58, 1977 Aug p 115 Bloom, Gunnar, 1966 Feb p 88 Bloom, Justin L, 1969 Apr p 57, June p 37, 56, 1970 Nov p 13, 1971 Feb p 52 Bloom, William, 1970 Feb p 102, 1971 Oct p 15 Bloomer, Amelia J, 1973 Mar p 85 Bloomfield, Leonard, 1972 Sept p 78 Bloomgarden, David, 1975 Apr p 56 Blough, Donald S, 1961 July p 113, Nov p 93, Blount, Luther, 1970 Dec p 16, 17 Blout, Elkan R, 1957 Sept p 174, 1964 Nov Blow, David, 1974 July p 77, 79, 80, 82 Blue Cross and Blue Shield, see American Blue Cross and Blue Shield Blum, Murray S, 1972 Apr p 95, Nov p 73 Blum, Norman, 1965 Apr p 78 Blum, Theodor, 1955 Aug p 35 Blumberg, Baruch S, 1970 Aug p 48, 1976 Dec p 50, 1977 July p 44 Blumberg, Eugene M, 1952 June p 34 Blumenbach, Johann F, 1955 Oct p 110 Blumenfeld, Hans, 1954 Apr p 61, 1965 Sept p 91, 108, 151 Blumenfeld, Olga O, 1963 Apr p 107 Blumer, Max, 1967 Jan p 37, 1975 June p 93, Blumlein, Alan D, 1961 Aug p 82, 83, 1967 Oct p 45 Blumstein, Alfred, 1964 Mar p 28 Blyth, Colin R, 1977 May p 122 Blyth, Edward, 1959 Feb p 79, May p 63, Aug p 104-106 Boadicea, Queen, 1977 Feb p 39 Boag, Jack W, 1963 Apr p 82, 1967 Feb p 80 Boardman, E M, 1956 Jan p 35 Boardman, Margaret, 1975 Jan p 97 Boas, Franz, 1950 Sept p 92, 1956 May p 70, 1972 Nov p 88 Boas, Margaret A, 1961 June p 139 Boas, Ralph P, 1957 May p 99 Boato, G, 1974 May p 112 Bobeck, Andrew H, 1969 Oct p 47, 1971 June Bobrezov, L, 1965 May p 66 Bobrovnikoff, N T, 1975 Jan p 26 Bobrow, Daniel, 1966 Sept p 252, 257, 258 Boccaccio, Giovanni, 1964 Feb p 119, 121 Bock, Robert M., 1964 Jan p 68, 73 Bodansky, Oscar, 1961 Aug p 99, 1964 Dec Boddaert, Peter, 1977 Mar p 106 Bode, Charles W, 1972 Jan p 50 Bode, German H, 1949 Mar p 50 Bode, Hendrik, 1970 Feb p 13 Bode, Johann, 1965 Apr p 110, 1977 July

p 128 Bodecker, C, 1948 Sept p 34, Oct p 21 Bodemer, C W, 1958 Oct p 84 Boden, Brian, 1951 Aug p 27 Bodenstein, Dietrich, 1978 June p 108 Bodenstein, Max, 1968 Sept p 161 Bodet, Jaime T, 1949 Jan p 29, 1953 Jan p 30, Sept p 73 Bodewig, E, 1951 May p 32 Bodian, David, 1952 June p 32, 1953 July p 27, 1965 Oct p 86 Bodmer, Walter F, 1969 Aug p 32, 37, 1970 Oct p 19, 1977 Oct p 104 Bodo, G, 1961 Dec p 109, 1964 Nov p 70 Bodoni, Giambattista, 1969 May p 62 Boedtker, Helga, 1957 Sept p 180, 1961 May Boehm, Felix H, 1965 Feb p 51 Boehm, Ludwig, 1959 Nov p 108, 110, 114 Boeing Aerospace Company, 1953 Nov p 68, 1963 Nov p 53, 1964 June p 33 35, 1965 Aug p 27, 1966 Sept p 184, 188, Oct p 43, 1968 May p 59, 1973 Aug p 13, 1977 Feb p 25 Boer, K de, 1961 Aug p 83 Boerhaave, Hermann, 1954 Sept p 60, 1965 June p 112, 1967 Feb p 95 Boerma, Addeke H, 1969 Dec p 50, 1970 Aug p 54, 1971 Aug p 35, Oct p 41 Boersch, H, 1951 July p 57 Boeseken, Jacob, 1970 Jan p 58 Boesen, George F, 1964 June p 71, 79 Boet, Richard H, 1961 Sept p 84 Boethius, Anicius M S, 1967 Dec p 95 Boettiger, David E, 1972 Jan p 28, 30 Boettiger, Edward G, 1965 June p 77 Bogard, Ben M, 1969 Feb p 21 Bogart, Leo, 1968 Jan p 46 Bogen, Joseph E, 1964 Jan p 46, 1967 Aug p 24, 28 Boggess, Albert III, 1959 Feb p 66 Boggild, J K, 1959 Sept p 75 Bogolyubov, Nikolai N, 1956 Aug p 29, 33, 1958 Dec p 53, 1960 Jan p 94, 1975 Dec p 65 Bogoroch, Rita, 1965 June p 37, 43 Bogue, Donald J, 1957 Oct p 38, 1965 Sept Bogue, R H, 1964 Apr p 82 Bohart, George E, 1963 Apr p 150 Bohen, Ira S, 1963 Apr p 60 Bohlin, J David, 1973 Oct p 78 Bohlool, Benjamin B, 1977 Mar p 70 Bohm, David, 1954 July p 42, 1963 July p 114 1967 July p 78, 79, 81, 87, 88 Bohm, Josef, 1963 Mar p 134, 137 Bohn, Horst, 1977 July p 69, 71 Bohnhoff, Marjorie, 1949 Aug p 33 Bohr, Aage, 1955 Nov p 51, 1959 Jan p 82, 1964 Mar p 86, 1975 Dec p 48 Bohr, Christian 1963 Nov p 113 Dec p 92 1965 May p 90, 1973 Oct p 56 Bohr, Niels, 1948 Aug p 29, Sept p 21 1949 Mar p 53, 55, May p 16, Dec p 42 1950 Sept p 22, 30, 1951 Mar p 23, 1952 Feb p 34, Mar p 49, 51-53, 1953 Sept p 54 56 57, 1955 June p 31, 32 Oct p 30 33, Nov p 51, 1956 Mar p 93, Oct p 93 95 96 98 100, Nov p 96, 100, 102, 104 1957 May p 62, 1958 Sept p 51, 56, 57, 60 77 79, 80 82 102, 109, 1959 Jan p 75, 78-80 82 Feb p 37, July p 74, 84, Sept p 77, 79, 1961 Mar p 102, 1962 Jan p 50, 1963 May p 46 48 50, 1964 Mar p 86, Sept p 130 1965 May p 60, 61, 64, 68, 90, July p 71, Aug. p 49 51 1967 May p 129, Nov p 26 92, 1968 Jan p 73 81 Sept p 63, 1969 Apr p 63, Dec p

48, 1970 May p 121, Oct p 67, 1972 Oct p 100, 108, Nov p 102, 104, 1973 Nov p 39, 1974 Oct p 25, 1977 Dec p 82 Bohun, Bela, 1971 Jan p 31 Boismont, Brierre de, 1977 Oct p 132 Boissonnas, Roger, 1961 July p 102, 1962 Aug p 114, 1963 July p 52 Bown, Andre, 1953 Feb p 49, 1961 Sept p 74, 1964 Mar p 36, 40 Bok, Bart J, 1948 May p 38, 1949 Aug p 51, 1950 Feb p 35, 1952 July p 46, 47, Aug p 36, Oct p 55, 1953 Apr p 44, 1955 Mar p 38, 1956 Jan p 48, Feb p 39, 1957 Jan p 64, 1971 Feb p 30, Dec p 20, 25, 1977 June p 66, 67, 69, 70 Bok, Dean, 1970 Oct p 84, 86 Bok, Derek C, 1976 May p 50, 1978 June p 83 Bok, Priscilla F, 1964 Jan p 40 Boksenberg, A., 1978 Apr p 80 Bol, Kees, 1955 Aug p 65, 66 Bold, Harold C, 1953 Oct p 35 Boldt, Elihu, 1966 Oct p 44 Bolef, Dan I, 1973 June p 39 Bolin, Bert, 1963 June p 57, 1970 Sept p 125, 175, 1971 Jan p 38, 41, 1978 Jan p 36 Bolin, Sture, 1974 Dec p 123 Bolitho, Douglas, 1956 Sept p 120 Boll, Franz, 1950 Aug p 37, 1967 June p 72 Bolle, A., 1964 Mar p 54 Bollee, Amedee Sr., 1972 May p. 102, 108, 109, 110 Bollee, Leon, 1972 May p 109 Boller and Chivens Inc, 1957 Dec p 41, 43 Bollingen Foundation, 1956 July p 40, 1961 June p 124, 1964 Apr p 94 Bollmeier, E Wayne, 1959 July p 71 Bollum Frederick J, 1962 Dec p 137, 138 Bologna, J. M., 1978 June p. 91 Bolster, Calvin M, 1949 Feb p 11 Bolt, Beranek and Newman, Inc., 1966 Sept p 129, 208, Dec p 70, 1970 June p 70 Bolt, Bruce A, 1965 Nov p 37 Bolt, Richard H. 1969 Dec p 54 Boltax, Sandra, 1971 Mar p 36 Bolton, E. K., 1953 Aug. p. 41 Bolton, Ellis T 1964 May p 56, 1969 Oct р 28, 1970 Арг р 25, 31 Bolton, John G. 1949 Sept p 38, 41, 1953 Jan p 18, 20, 1955 Mar p 42, 1957 July p 51, 1962 Mar p 42, 1964 Nov p 60, 1965 June p 47. July p 29, 1966 June p 30, 1968 Nov p 56, 1970 Dec p 28, 1975 Aug p 26 Boltwood Bertram, 1957 Apr p 81, 1958 Feb p 76 Boltzmann Ludwig, 1949 July p 11, 12, Oct p 13, 1952 Apr p 84, 1953 Sept p 52 1954 Sept p 61, 1955 June p 63, 64, 1956 Feb p 80 1958 Mar p 96 Sept p 74, 1959 Oct p 114 1960 Oct p 165 1964 Sept p 95, 1965 May p 58 1966 Dec p 120 121, 1967 Jan p 101 Sept p 181, Nov p 106 1975 Dec p 60 1976 June p 32, 33 35 Bolyai Farkas 1977 July p 130 Bolyar Janos, 1952 Nov. p. 79, 1956 Mar p. 106, Sept. p. 136, 137, 1967 Dec. p. 115 116 1969 Nov p 87-89, 1976 Aug p 98 1977 July p 123 130 Bolzano Bernhard 1954 Apr p 87 Bembard Alam 1956 Jan p 72, 76 95 104 Bo nmel Hans L. 1963 June p 64, 1972 Oct p 51 the uparte Sipoleon 1949 I in p 45, June p 51 Dec p 34 19501 cb p 41, 1952 July p 17 1954 June p 3 50, Sept p 65 1955 Jan p 31 83 1966 June p 114, 1960 Apr p 153 Julep 100 117 (At p 153, 107 1502 Au, p 50, 1303 At p 60 1564 Jul p 79,

Sept p 65, 1965 Jan p 86, 89, 91, 1967 Apr p 79, Aug. p 55, 1968 Dec p 105, 109, 1970 July p 17, 18, 1971 May p 15, June p 94, 1972 Feb p 97, 98, Aug. p 79, 1976 Mar p 35, 40 Bonar, Robert A, 1964 June p 48 Bonatti, Enrico, 1970 Feb p 35, 1978 Feb p 54 Bond, George F, 1966 Mar p 22, 27, 28 Bond, George P, 1950 Sept p 24 Bond, Victor P, 1963 Aug p 106 Bond, Walter L, 1963 July p 34 Bondi, Hermann, 1953 Mar p 34, 1954 Mar p 58, 1956 Aug p 114, Sept p 157, 1959 Oct p 84, 1960 July p 62, 1961 Feb p 51, 1974 May p 108 Bondurant, Stuart, 1959 Mar p 62 Bones, Ruth M , 1969 Aug. p 91 Bonet, Theophile, 1950 June p 44 Bonfils, Serge, 1972 June p 105 Bonhoeffer, K. F., 1951 Nov p 71 Bonhomme, M, 1968 Apr p 59 Boniface IV, 1951 Oct p 65 Bonnar, John J, 1963 Aug p 84 Bonne, Batsheva, 1977 Jan p 107, 108 Bonner, David M, 1951 Oct p 23, 24, 33 Bonner, James, 1952 May p 52, 55, 1957 Apr p 129, 1958 Apr p 109, Oct p 42, 1962 Sept p 106, 1975 Feb p 48, 49, 52 Bonner, John T, 1956 May p 62, 1961 Sept p 144, 1962 Feb p 112, 1968 Oct p 60, 1972 Aug p 104 Bonner, William A., 1976 Mar p 111 Bonnet, Guy, 1970 Feb p 35 Bonnett, Robert, 1955 Sept p 76 Bonnevier, B, 1967 Apr p 114 Bonneville Power Administration, 1949 Mar p 26 Bonney, T. G., 1959 Aug. p. 99 Bonney, Walter T, 1953 Dec p 80 Bonnichsen, Roger K., 1959 Aug. p 122 Bonnier, M Gaston, 1956 Oct p 81, 1959 Oct p 152 Bonpland, Aime, 1954 Mar p 79 Bonsack, W K, 1967 Aug p 35 Bonsall, R. W., 1971 Sept p 76 Booker, Henry G, 1952 June p 36, 1957 Jan p 48, 49 Booker, John F. 1975 July p 60 Booker, Michael, 1977 Aug. p 97 Boole, George, 1950 Dec p 22, 1952 Mar p 68, 69, 1953 Nov p 93, 1956 June p 74, 76, 1964 Sept p 78, 1966 Sept p 75, 1968 May p 95, 1970 Feb p 25, 1972 July p 42, Aug. p 76, 80 83, 1977 Sept p 84 Boon, J D, 1961 Aug p 54 Boone, Charlotte, 1974 July p 40 Boonstra, Lieuwe, 1975 Apr p 69 Booras, Peter J 1966 Aug. p 44 Bo'orchu, 1963 Aug. p 59 Boore David M., 1977 Dec p 69 Boorstin, Daniel J., 1973 Sept. p. 139 Boos Winifred, 1976 Apr p 44 Booser, E. R., 1975 July p 59 Boot, L. M., 1963 May p. 101 Booth A D 1949 Dec. p 30, 1956 Jan p 29, 30 32 Booth Lugene T Jr., 1958 Dec p 54 Booth K 1973 Oct p 29 Booth, N. H. 1966 June p. 100 Booth, Puggy 1969 Sept p 55 Booth W L., 1966 June p 79 Boots Pure Drug Company, 1563 Nov. p. 102. Bootsma, Dirk 1974 July p 40 Bopp Franz, 1955 Oct p (6 67 Borchgrevink, Carsten L. 1962 Sept. p. 64, 178 Borda, Jean C de, 1971 Oct p 49

Bordaz, Jacques, 1968 Nov p 97-99, 1969 Apr p 51, 1970 Mar p 52 Borden, William L , 1975 Oct p 107 Bordes, François, 1964 Aug p 86, 1969 Apr p 72, 77, 78, 81, 84, May p 49 Bordet, Jules, 1967 Nov p 26 Borek, Carmia, 1970 May p 86 Borek, Ernest, 1959 Aug p 125 Borel, Émile, 1955 Feb p 78, 1964 Sept p 96, Borel, Emile, 1975 Dec p 65, 66 Borelius, Gudmund, 1968 July p 66 Borelli, Giovanni A., 1950 Feb. p. 41, 1955 Mar p 89, 1960 Oct p 117 Borelli, Peter, 1956 Sept p 232 Boret, Lyle B, 1952 Mar p 40 Borg, Alan, 1972 Nov p 95 Borg, Donald C, 1970 Aug p 83 Borghini, M., 1966 July p 74 Borg-Warner Corporation, 1964 June p 71, 79 Boring, Edwin G, 1954 Jan p 74, 1962 July p 120, 122, 123, 1963 Apr p 121, 1969 Jan p 73 Bonsov, N , 1969 Dec p 28 Borken, J, 1975 Dec p 39, 40 Borlase, Bingham, 1960 June p 106 Borlaug, Norman E., 1953 July p 59, 1970 Dec p 38, 1974 Aug p 75, 1975 June p 15, 19, 1976 Sept p 36 Borle, Andre B, 1970 Oct p 49 Bormann, F Herbert, 1970 Sept p 158, Oct p 92, 1978 Mar p 93 Born, G H, 1977 Feb p 30 Born, Gustav, 1958 Apr p 40, 41, 1961 Feb Born, Max, 1949 Oct p 13, Nov p 43, 1950 July p 49, Sept p 21, 22, 42, 1952 Dec p 42, 1954 May p 86, Dec p 52, 1957 June p 72, 1958 Dec p 53, 1964 Aug p 77, 1967 June p 66, Sept p 83, 114, 183, 184, Nov p 28, 1968 May p 18, 1970 Apr p 57, 1972 Dec p 16 Bornemissza, G F, 1974 Apr p 101 Bornstein, Murray B, 1970 July p 46 Bornstein, Paul, 1971 June p 44 Borough, Howard C, 1965 Aug. p 27 Borowsky, Stephen A. 1976 Mar p 30, 33 Borroff, Marie, 1972 Sept p 37 Borror, Donald J., 1959 Nov p 128 Borsi, Sergio, 1970 Feb p 35 Borsook, Henry, 1958 Mar p 118, 1961 Sept. p 79 Borsos, Tibor, 1973 Nov p 57 Borst, H L, 1953 Aug p 38 Borst, Lyle B, 1950 Oct p 25 Borstel, R. C von, 1959 Sept p 96 Borsuk, Karol, 1950 Jan p 24 Borte, 1963 Aug p 57, 61, 68 Bortfeld, David P, 1964 Apr p 49, 1969 Feb Borthwick, H A., 1952 May p 53, 1959 Nov p 91, 1960 Dec p 56, 59 Bortoff, Alexander, 1973 Jan p 72 Borun, Thaddeus, 1975 Fcb p 49 Bosanquet, Frances D, 1956 Dec p 62 Bosch, Carl 1949 Dec p 15, 1967 Nov p 27 Bosch Hieronymus, 1974 Sept p 81 Bosch, Karl, 1965 June p 65, 1970 Sept p 141, 143, 1974 Oct p 67, 1977 Mar p 68 Bowovich, Roger J., 1970 May p. 120-122, 1976 Nov p 70 Boscovich, Ruggiero, 1960 June p. 116 Bose, John H., 1957 Oct p 57 Bose, Raj C, 1962 Feb p 102, 104, 106 Bose, S. N., 1948 June p. 35, Aug. p. 41, 1949 June p 36 37, 1959 July p 56 1965 Sept p 57

Bosio, C., 1973 Nov. p. 41. Bosma, James F., 1974 Mar. p. 87. Bossert, H. T., 1949 Aug. p. 22, 23. Bossert, William H., 1963 May p. 102. Bossom, Joseph, 1964 Jan. p. 49. Bostick, Winston H., 1957 Oct. p. 87. Boston Legal Assistance Project, 1970 Nov. p. 44. Boston Metropolitan District Commission, 1975 Nov. p. 53. Boston Museum of Science, 1949 Jan. p. 48; 1970 June p. 108. Boston Psychopathic Hospital, 1957 Feb. p. 90; Dec. p. 55; 1962 Aug. p. 69; 1964 Apr. p. 29. Boston University, 1963 Jan. p. 119; 1965 Apr. p. 76; June p. 113; Sept. p. 218; 1966 Aug. p. 86. Bostrom, C., 1972 Feb. p. 41. Boström, Kurt G. V., 1978 Feb. p. 56. Bostrom, R. C., 1969 Dec. p. 89, 90. Botanical Society of America, 1948 May p. 33. Bothe, Walther, 1949 Mar. p. 30; 1951 Oct. p. 46; 1954 Dec. p. 52; 1967 Nov. p. 28. Botkin, Benjamin A., 1967 Apr. p. 23. Botkin, Daniel B., 1978 Jan. p. 40. Bottema, Murk, 1965 Jan. p. 31. Botvinnik, Mikhail, 1973 June p. 92, 93. Bouasse, Henri, 1973 July p. 30. Bouchardat, G., 1956 Nov. p. 75. Bouchon, Basile, 1972 Aug. p. 79. Bouck, G. Benjamin, 1977 Dec. p. 145. Bougainville, Louis, 1956 Aug. p. 59. Bouguer, Pierre, 1950 May p. 35; 1967 Oct. p. 70; 1974 July p. 60. Bouie, André, 1966 July p. 36. Bouie, Joelle G., 1966 July p. 36. Bouin, Paul, 1958 Apr. p. 41. Bouisson, M., 1962 July p. 39. Boulder High Altitude Observatory, 1964 Apr. p. 68, 69. Boulez, Pierre, 1967 Dec. p. 103. Bouligand, Yves, 1977 Dec. p. 140. Boulton, Matthew, 1952 Sept. p. 50, 102; 1964 Jan. p. 106, 107; 1965 June p. 115; 1967 Mar. p. 108; 1970 Oct. p. 117, 118. Boulton, Rudyerd, 1949 Dec. p. 54. Bouman, Maarten A., 1968 Sept. p. 111. Bounhiol, Jean, 1958 Feb. p. 68. Bouquer, Pierre, 1968 Sept. p. 72. Bourassa, C. M., 1972 May p. 36. Bourbaki, Charles D. S., 1957 May p. 89. Bourcart, Jacques, 1972 Dec. p. 36. Bourdeau, R. E., 1963 May p. 94. Bourgeois, Suzanne, 1970 June p. 43. Bourguelot, E., 1968 May p. 112. Bousfield, W. A., 1967 Oct. p. 120. Bouziques, H., 1976 July p. 36. Bovarnick, Marianna R., 1955 Feb. p. 53. Bové, Colette, 1960 Nov. p. 105. Bové, Joseph, 1960 Nov. p. 105. Bovenkerk, H. P., 1955 Nov. p. 42; 1960 Jan. p. 74. Boveri, Theodore, 1950 Sept. p. 56; 1978 Feb. p. 117, 118. Bovet, Daniel, 1957 Dec. p. 60; 1963 Nov. p. 106; 1967 Nov. p. 28. Bowden, F. P., 1951 Feb. p. 56, 58; 1956 Jan. p. 52; May p. 110; 1968 June p. 94, 95. Bowden, Frank, 1973 Mar. p. 90. Bowditch, Nathaniel, 1954 June p. 79. Bowe, J. C., 1966 Sept. p. 104. Bowen, C. C., 1977 Aug. p. 90. Bowen, Edward G., 1950 Apr. p. 51; 1955 June p. 50; 1961 Jan. p. 122, 127. Bowen, Harold G., 1949 Feb. p. 13, 15. Bowen, Howard, 1966 Mar. p. 55. Bowen, Ira S., 1948 Aug. p. 16; 1949 Mar. p. 30;

1952 Feb. p. 43, 45, 48; 1953 June p. 56. Bowen, Murray, 1962 Aug. p. 71. Bowen, N. L., 1952 Oct. p. 57; 1955 Apr. p. 79. Bowen, Richard L. B. Jr., 1969 Dec. p. 39. Bowen, W. J., 1949 June p. 24. Bowen, William G., 1978 June p. 83. Bower, T. G. R., 1966 Dec. p. 80; 1967 May p. 97; 1971 Oct. p. 30, 31; 1976 Nov. p. 38, 45. Bowers, Henry R., 1962 Sept. p. 65. Bowers, Raymond, 1965 Apr. p. 78; 1966 Aug. p. 22; 1970 Jan. p. 13; 1972 Feb. p. 13. Bowers, W. S., 1967 July p. 16, 17. Bowie, William, 1956 Dec. p. 85, 86; 1962 May Bowin, Carl O., 1975 Nov. p. 97. Bowlby, John, 1972 July p. 82. Bowles Engineering Corporation, 1964 Dec. p. 80. Bowles, Kenneth, 1955 Sept. p. 144. Bowles, R. E., 1964 Dec. p. 81. Bowles, Robert, 1950 Nov. p. 11. Bowlton, W., 1975 Nov. p. 104. Bowman, James D., 1978 June p. 71. Bowman, K. H., 1969 Dec. p. 24, 25. Bowman, William, 1953 Jan. p. 41. Bown, Ralph, 1951 Aug. p. 15, 16; 1958 Sept. p. 117. Bownds, Deric, 1967 June p. 72. Bowron, Fletcher, 1950 June p. 12. Bowyer, D. G., 1973 Nov. p. 64. Bowyer, Stuart, 1963 Dec. p. 68; 1964 June p. 37; Sept. p. 86. Box, Harold C., 1970 Aug. p. 76. Boxton-Beel, Inc., 1970 Mar. p. 41. Boy Scouts of America, 1952 Jan. p. 36. Boyce, Peter A., 1964 Feb. p. 67. Boyce, Richard P., 1967 Feb, p. 39. Boyce Thompson Institute for Plant Research, 1953 June p. 79. Boycott, Brian B., 1978 Feb. p. 97, 102. Boyd, Alan S., 1968 Oct. p. 88. Boyd, Edith, 1953 Oct. p. 69, 70. Boyd, F. R., 1964 Apr. p. 114. Boyd, Franci R., 1978 Apr. p. 127, 128. Boyd, G. E., 1950 Apr. p. 43. Boyd, Gary D., 1964 Apr. p. 43. Boyd, George A., 1949 Feb. p. 33. Boyd, M. F., 1974 Sept. p. 83. Boyd, William C., 1952 Feb. p. 52; 1954 Oct. p. 81; 1957 Mar. p. 123; 1977 June p. 108, Boyden, Alan A., 1960 Mar. p. 140. Boyden, Edward A., 1973 Apr. p. 80. Boyd-Orr, Lord, 1958 Dec. p. 53. Boyer, C., 1975 Sept. p. 72, 73. Boyer, Herbert W., 1974 Aug. p. 90; 1975 July p. 25, 28, 29, 31; 1977 Jan. p. 47; May p. 55. Boyer, Marion W., 1950 Dec. p. 26; 1953 Nov. p. 50. Boyer, Paul D., 1978 Mar. p. 113, 122. Boyer, R. Q., 1954 Feb. p. 79. Boyer, S. H. III, 1971 Apr. p. 106. Boyko, Elizabeth, 1967 Mar. p. 90. Boyko, Hugo, 1976 Aug. p. 44D. Boylan, David, 1971 May p. 108. Boylan, George S. Jr., 1973 Aug. p. 17. Boyle, Edwin, 1952 July p. 42. Boyle, J. C., 1967 June p. 26. Boyle, Robert, 1948 May p. 47, 48; 1949 Aug. p. 20, 46; 1950 May p. 20, 21; 1952 June p. 57, 59; Oct. p. 76; 1953 Jan. p. 56; Aug. p. 65; Nov. p. 66; 1954 Sept. p. 60; Dec. p. 94, 98; 1956 June p. 105; 1960 July p. 66; Oct. p. 164; 1962 Dec. p. 81, 82, 86; 1963 Sept. p. 55; 1965 May p. 58; 1967 Aug p. 97-102; 1968 Jan. p. 115; May p. 97; 1970 Oct. p. 114; 1973 Apr. p. 44; 1975 Nov. p. 102; 1976 May p. 98.

Boyle, Willard S., 1961 June p. 59; 1963 July p. 37; 1972 June p. 52; 1977 Aug. p. 40. Boylston, Zabdiel, 1976 Jan. p. 114-117. Boys, C. V., 1949 Dec. p. 52; 1962 May p. 105; 1976 Mar. p. 111. Boyse, Edward A., 1974 Nov. p. 63; 1976 May p. 34, 37; 1977 May p. 68, 72; Oct. p. 97. Bozorth, Richard M., 1957 Jan. p. 62; 1960 June Brabant, J., 1956 June p. 41. Braccini, P. L., 1973 Nov. p. 42. Brace, William F., 1975 May p. 16. Bracewell, Ronald N., 1962 Nov. p. 72; 1970 June p. 33; 1977 Dec. p. 86. Brachet, Jean, 1953 Feb. p. 54; 1958 Mar. p. 120; 1960 Jan. p. 128; 1961 Apr. p. 125; Sept. p. 78, 144; 1963 May p. 70. Bracht, Jean, 1966 Nov. p. 118. Braconnot, Henri, 1950 June p. 34. Bradaschia, C., 1973 Nov. p. 42. Bradbury, Norris E., 1949 Mar. p. 24; 1950 Sept. p. 44; 1975 Oct. p. 106. Braddick, H. J. J., 1949 Mar. p. 36. Brade, Volker, 1973 Nov. p. 60. Bradess, Victoria A., 1951 Aug. p. 30. Bradfield, J. R. G., 1961 Sept. p. 190. Bradford, William, 1969 May p. 63. Bradley, Albert J., 1968 July p. 66. Bradley, Charles, 1970 Apr. p. 94. Bradley, D. J., 1969 Feb. p. 35; 1973 June p. 60. Bradley, James, 1955 Aug. p. 62; 1964 Mar. p. 100-108; 1975 Mar. p. 68. Bradley, Omar, 1950 June p. 11; 1975 Oct. p. 108. Bradley, S. Gaylen, 1966 June p. 98. Bradley, W. H., 1967 Jan. p. 38. Bradley, W. J., 1973 Aug. p. 87. Bradshaw, J. W. S., 1977 Dec. p. 153. Bradstreet, Edda D., 1963 Dec. p. 96. Bradt, Hale V., 1969 July p. 52. Bradt, Helmut L., 1949 Mar. p. 34; 1950 Mar. p. 26. Brady, J. H. R., 1968 Sept. p. 193. Brady, Joseph V., 1956 Oct. p. 116; 1972 June p. 108. Brady, Mathew, 1954 July p. 73; 1959 Nov. p. 101. Brady, Nyle C., 1975 June p. 15, 19. Braes, Luc, 1975 Mar. p. 28. Bragg, Lawrence, Sir, 1949 Dec. p. 15, 52; 1951 July p. 57; 1952 Dec. p. 41; 1954 July p. 51; 1955 July p. 81; 1960 Aug. p. 125; 1964 Nov. p. 66, 68, 70; 1966 Nov. p. 78, 83, 85; 1967 Sept. p. 75, 80, 87; Nov. p. 26; 1969 Nov. p. 105; 1974 July p. 77; 1976 Apr. p. 96. Bragg, William H., Sir, 1949 Dec. p. 15; 1952 Dec. p. 41; 1954 July p. 51; 1959 Sept. p. 76, 77; 1960 Aug. p. 125; 1963 June p. 60; 1964 Aug. p. 77; 1966 Nov. p. 78, 84; 1967 Sept. p. 80; Nov. p. 26; 1968 Mar. p. 91; July p. 61, 62, 69; 1976 Apr. p. 96; Oct. p. 51. Braginsky, Vladimir, 1974 Nov. p. 28; 1977 Jan. Braham, Roscoe R. Jr., 1953 July p. 38. Brahe, Tycho, 1948 May p. 21; 1949 Apr. p. 47; Oct. p. 44; Dec. p. 19; 1952 Oct. p 53; 1953 Jan. p. 20; 1956 Sept. p. 79, 212, 228, 230; 1961 Feb. p. 118-128; Aug. p. 56; 1962 Aug. p. 98; 1964 Sept. p. 43, 132; 1966 Oct. p. 95; 1969 Feb. p. 56; 1971 July p. 74, 80; 1972 Mar. p. 93-96, 99-103, 106; 1973 Dec. p. 87, 90, 96-101; 1975 Sept. p. 23; 1976 June p. 160, 105; Dec. p. 101; 1977 June p. 121, 122.

Brahet, Jean, 1953 Sept. p. 109, 114.

Braid, James, 1957 Apr. p. 54.

Brahms, Johannes, 1959 Dec. p. 111, 1974 Nov.

Braidwood, Robert J, 1952 Nov p 49, 1953 July p 50, 1955 Mar p 57, 1957 Sept p 116, Nov p 59, 1960 Sept p 136, 154, 197, 1964 Dec p 62, 1968 Mar p 38, 1970 Mar p 51, 1975 Dec p 54 Braille, Louis, 1951 Sept p 46, 1952 Sept p 144 Brain, Charles K., 1955 Mar p 57, 1958 July p 77, 1970 June p 52 Brainerd, George, 1977 Mar p 130 Braitenberg, Valentino, 1975 Jan p 61 Braithwaite, R. B, 1956 Apr p 122, 124 Bramah, Joseph, 1952 Sept p 102 Branch, Daniel P, 1960 Dec p 134 Branch, David R., 1977 Apr p 104 Branck, Michael H, 1977 June p 93 Brand, Erwin, 1950 June p 35 Brand, Martin D, 1978 Mar p 121 Brande, William T, 1960 June p 108 Brandeis University, 1962 Dec p 137, 1963 Aug. p 90, 1964 May p 51, 56, June p 94, 1965 Nov p 84 Brandt, A E., 1968 Aug. p 90 Brandt, John C, 1962 Jan p 66, 1964 May p 85, 1971 Dec p 25, 1974 Feb p 50, 1976 June p 100 Brandt, N B, 1971 Apr p 83 Brandt, Philip W, 1961 Apr p 120, 122, 124, 126, 128, Sept p 59, 64 Brandt, Werner, 1975 July p 34 Branley, Franklyn, 1949 Dec p 56, 57 Branly, Edouard, 1965 Mar p 93 Brannan, Charles F, 1952 Oct p 38 Branner, Robert, 1972 Nov p 93 Brans, Carl H, 1961 Dec p 91, 1967 Mar p 48, June p 37, 1974 Oct p 56, Nov p 27, 28 Branscomb, Lewis M, 1970 Oct p 53, 1972 May p 49, 1977 Dec p 53 Brant, Henry, 1962 Nov p 92 Branton, Daniel, 1972 Feb p 30, 32, 1975 Oct p 32, 1977 Aug p 95, 97 Branton, David, 1977 Aug p 91 Braque, Georges, 1974 July p 103 Braslau, Norman, 1964 Apr p 43, 1965 Oct p 40 Brassert & Co, 1951 Jan p 37 Brattain, Walter H, 1948 Sept p 55, 1951 Aug p 14, 1952 July p 29, 1955 July p 52, 1956 Dec p 52, 1958 Feb p 40, Sept p 118, 1967 Nov p 28, 1968 Mar p 103, 1973 Aug p 49 Brattgard, Sven Olaf, 1961 Dec p 64 Brattsten, Ingra, 1951 Dec p 51 Braun, Armin C, 1950 Feb p 26, Mar p 50, 1963 Oct p 111, 1965 Nov p 76 Braun, Cecilia, 1949 July p 48 Braun, Ferdinand, 1950 Oct p 34, 1967 Nov p 26 Braun Karl F, 1949 Dec p 15, 1974 Mar p 92-101 Braun Werner, 1971 July p 28 Braumtzer, Gerhardt, 1964 Nov p 72 Brauns I redench E., 1958 Oct p 106 107 Brawner, Archie W. 1974 June p. 21, 23 Bray, Dennis, 1969 Nov p 123 Bray Philip J., 1961 Jan p 95, 97 Brayton, Robert K. 1978 Feb p 96 Brital Projecto Radam 1977 Oct p 93 Brazilian Agricultural Research Institute 1977 Mar p 7Î Brazilian Geest iphic Ceuncil 1948 May p. 13 Brazilian Instituto Butantas, 1957 Jan. p. 116 Breasted Janes H 1952 Oct p 63 Breathnach R 1975 Jeb p 76 Brea, cafe W M, 1954 Dec p 53 Breefer, Keineth 1976 leb p 518 Oct p 78 Back DW 1183 lugger 18

Breckenridge, Bruce McL, 1969 June p 78 Breckennidge, Lee, 1966 Apr p 108 Breder, C M. Jr, 1962 June p Bredt, Julius, 1976 Feb p 113 Breech, Ernest R., 1955 May p 50, 1956 Mar p 49 Breed, Carol, 1976 Oct p 113, 114 Breer, Carl, 1977 Aug. p 98-106 Breese, S S, 1959 Feb p 88 Brefeld, Oskar, 1949 June p 44, 1969 June p 80 Breg, W R, 1963 July p 59 Bregman, Albert S, 1975 Oct p 98 Breguet, Louis, 1955 Jan p 37, 1964 June p 26-28, 30 Brehm, A, 1954 Mar p 79 Brehm, Jack W, 1961 Dec p 47 Breit, Gregory, 1948 June p 27, 34, 1953 May p 55, 1955 Sept p 126, 127 Brekhovskikh, Leonid, 1951 May p 36 Brem, Henry, 1976 May p 64 Brem, Steven S, 1976 May p 64 Bremel, Robert D, 1974 Feb p 65 Bremer, Frederic, 1952 Nov p 35, 1967 Feb p 67 Bremmer, H, 1977 Apr p 126 Brenden, BB, 1969 Oct p 43 Brennan, William J Jr, 1972 Sept p 164 Brenner, Douglas M, 1977 Feb p 86, 92, 96, 97 Brenner, J L, 1960 May p 88 Brenner, Sydney, 1961 June p 99, July p 66, Oct p 111, 1962 Jan p 71, Feb p 47, Mar p 69, Oct p 66, 1963 Jan p 55, 1964 Mar p 54, May p 52, 1965 Feb p 78, Apr p 39, Aug p 43, 1966 Dec p 38, 1967 Feb p 92, May p 91, 94, 1969 Oct p 29 Brenner, Walter, 1960 June p 82 Brent, Leslie, 1956 Nov p 66, 1957 Apr p 64, 1963 Oct p 50 Brent, Lester, 1972 June p 30 Breschet, Gilbert, 1967 Feb p 95 Breslau, L R, 1959 Oct p 108 Bresler, David E., 1969 May p 54 Breslow, Lester, 1956 Apr p 64, 1962 July p 41 Bressani, Ricardo, 1971 Aug p 35 Bretscher, Marc, 1963 Mar p 86, 1972 Feb p 31,32 Bretscher, Mark S., 1968 Jan p 41, 1976 May Brett, W J., 1954 Apr p 35, 37 Bretz, J. Harlen, 1967 Apr. p. 84, 87, 93, 1974 June p 52 Bretz, Michael, 1973 May p 36, 37 Bretz, William L., 1970 Nov p 46, 1971 Dec Breuer, Joseph 1949 Oct p 51 Breuer Martha E, 1961 Sept p 130, 1964 Apr p 53, 54 Breuer, Richard, 1972 Mar p 67 Breughel, Pieter 1951 Feb p 60 Breuil, Abbe, 1968 Feb p 59, 1975 Feb p 42 Breuil, Henri, 1948 July p. 19, 1953 Aug. p. 30, Brewer, A Keith, 1949 Aug. p 20 Brewer, Alan, 1964 Mar p 70, 1971 Jan p 37 Brewer, Gregory, 1975 Dec p 34 Brewer, Leo, 1954 Sept. p. 115, 1964 Aug. p. 40 Brewer, N. R., 1949 Sept. p. 26 Brewer, Richard G., 1968 Sept. p. 132. Brewster David Sir, 1949 Aug p 40, 1962 Oct p 43, 1969 Nov p 66, 1977 Apr p 123, 126 Brewster John M 1950 May p 28 Brewster Kinoman 1978 June p 83 Brevnius Jacob, 1966 Jin p 70 Brezhi ev. B. G. 1968 Oct. p. 48 Brezhres Teen d I. 1769 Jurep 22, 1972 July

p 48, 1975 Jan p 48, Apr p 20, 1976 July p 60 Brian, P W, 1955 June p 85 Brianchon, Charles J, 1955 Jan p 85, 1964 Sept p 65 Brice, W C, 1962 May p 84 Bricker, John W, 1953 June p 43 Briden, J C, 1967 Dec p 55 Bridge, Herbert S, 1963 May p 91, 1966 May p 63 Bridge, N K, 1960 May p 144 Bridgeman, William, 1953 Oct p 40, 41 Bridgen, John, 1977 Oct p 104 Bridges, Calvin B, 1956 Oct p 81, 1960 May p 124, 1961 Nov p 72, 1964 Apr p 50 Bridges, Robert, 1953 Apr p 64 Bridgman, Laura, 1972 Feb p 29 Bridgman, Percy W, 1949 Dec p 14, 1950 Sept p 80, 1951 Aug. p 50, 1952 Jan p 60, 1955 Sept p 60, 1956 Mar p 60, 1959 Nov p 63, 65, 1960 June p 156, 1964 Sept p 130, 1965 Jan p 103, 108, May p 38, 40, 46, June p 100, 1967 Nov p 27, 1969 Oct p 49, 1971 Apr p 84, 1974 Aug. p 62 Bridgwater, David, 1977 Mar p 100 Bridgwater, Donald D, 1973 June p 40 Briefs, A, 1959 Feb p 88 Brien, Paul, 1957 Dec p 122, 125 Brier, Arnold, 1973 Jan p 26 Brierley, Gerald P, 1964 Jan. p 70, 72, 73 Briggs, Lyman J, 1959 May p 71, 1972 Dec p 67 Bnggs, R. B, 1955 Oct p 64 Briggs, Robert W, 1961 Sept p 132, 1968 Dec p 24, 27, 30 Briggs, Winslow R, 1962 Oct p 117, 1977 Nov p 138 Brigham, Peter B, 1959 Oct p 57 Brigham Young University, 1965 May p 41, Dec p 88 Bright, Charles, 1971 May p 83 Bright, Edward, 1971 May p 83 Bright, Richard, 1951 Oct p 57 Brightman, Milton W, 1978 Feb p 96 Brill, A A, 1949 Oct p 54 Brill, Nathan E., 1955 Jan p 75, 77 Brill, Winston J , 1976 Sept. p 165, 1977 Mar p 68 Brilhart, John D, 1978 Feb p 90 Brillouin, Leon, 1957 June p 106, 1960 Oct p 153, 1967 Nov p 105, 109, 110, 1971 Sept. p 181, 183, 184 Brillouin, Louis, 1952 Sept p 133, 1963 July p 116, 1968 Sept p 122, 124, 131 Brimble, L J F., 1950 Jan p 46, 47 Brinckmann, Anita, 1961 Jan. p. 158 Brindley, G S, 1970 Feb p 84, 86, 87, 1972 May p 33, 34, 1974 Mar p 45 Brindley, James, 1970 Oct p 114 Brindley, Tom A, 1970 Apr p 48 Brindze, Ruth, 1949 Dec p 54, 57 Brinegar, Marion F, 1954 Dec p 43 Brinkley, John, 1954 May p 82 Brinkman, A. C. 1976 Aug. p. 44B Brinkmann, R. T., 1970 Sept p 117 Brinster, Ralph L., 1970 Dec p 51, 1978 Feb p 125 Brinton, Charles C Jr. 1967 Dec p 19, 22, 55 Brinton Edward, 1962 Aug. p. 46 Briskin, M., 1978 May p. 60 Bristol City Museum, 1974 Dec. p. 126 Bristol Laboratories, 1960 Nov p 50 Bristol, Thomas W., 1972 Oct p 55 Bristol University 1963 Mar p 63 Bristol Myers Company 1950 May p. 29, Aug. p 31 Brush, see also UK, Commens with

```
British Academy of Sciences, 1964 Apr p 94,
    1965 Apr p 83, 1974 Sept p 72
 British Admiralty, 1953 May p 88, June p 37,
    1957 Jan p 48
 British Agricultural Research Council, 1963
   Dec p 132, 1966 June p 94, Aug p 78
 British Air Ministry Meteorological Office, 1956
 British Army, 1957 Feb p 114, 1970 Dec
   p 104
 British Artic Survey, 1970 Nov p 87
 British Association for the Advancement of
   Science, 1952 Mar p 62, 1954 Mar p 52,
   1956 May p 120, 1966 Aug p 92-94, 1970
   July p 19, 1971 Dec p 80, 1977 Mar p 81
 British Association of Scientific Workers, 1948
   June p 24
 British Atomic Energy Authority, 1956 July
   p 48, 1958 Feb p 48, Mar p 50, 1966 July
   p 27, Dec p 23
 British Atomic Energy Research Establishment,
   1954 Oct p 43, 44, 1955 Apr p 33, 1958
   Mar p 31, 1960 Mar p 108, 84, Apr p 80,
   1962 Nov p 109, 1963 Feb p 144, Apr
  p 70, June p 99, 1966 July p 70, 1976 Dec
  p 114, 1977 Aug p 94
 British Board of Trade, 1970 July p 23
British Broadcasting Corporation, 1973 Nov
  p 92
British Calder Hall Reactor Station, 1960 Jan
  p 92
British Central Electricity Authority, 1958 Mar
  p 29, 1964 Feb p 68, 1976 Dec p 31
British Coal Utilization Research Association,
  1955 July p 62
British Colonial Office, 1949 July p 53
British Columbia Research Council, 1975 July
  p 104, 108
British Committee on Weights and Measures
  Legislation, 1970 July p 23
British Commonwealth Scientific and Industrial
  Research Organization, 1963 Dec p 56, 62,
  1966 June p 30, 37, 39, 1971 Dec p 27
British Council for Archeology, 1978 Jan p 69
British Department of the Environment, 1977
  Dec p 157
British East India Company, 1965 Sept p 91,
British Esso, 1972 Oct p 34, 33
British Falkland Islands Dependencies Survey,
  1957 Dec p 45, 46, 48, 49
British General Register Office, 1965 Sept p 44
British House of Commons, 1965 July p 92,
  1971 Oct p 101
British Imperial College of Science and
  Technology, 1971 Apr p 97
British Institute of Archaeology, 1961 Aug
British Iron and Steel Research Association,
  1963 Dec p 76, 79, 82, 86, 1965 June p 96
British Medical Association, 1951 Oct p 57,
  1956 Sept p 118, 1970 Dec p 77, 79
British Medical Research Council, 1956 May
  p 60, Sept p 110, Dec p 56, 1957 Aug p
  56, 1962 July p 41, Oct p 66, 1966 Nov p
  83, 1970 Aug p 41, Dec p 88, 1977 July p
  22, Nov p 72, Dec p 55, 56, 1978 Jan p 59
British Meteorological Office, 1964 Mar p 70,
  Oct p 69, 1971 Jan p 40
British Metrication Board, 1970 July p 17, 23,
British Ministry of Agriculture, 1965 Dec p 46
British Ministry of Labor, 1952 Jan p 62
British Ministry of Supply, 1952 Oct p 38, Dec
British Museum, 1954 Jan p 38, 1960 Nov
 p 157, 1961 Nov p 63, 1962 Sept p 189,
```

```
1963 Dec p 111, 1964 Sept p 41, 1965 May
      p 31, 1970 Aug p 100, 1971 Oct p 69, 1975
      Nov p 102, 1977 Mar p 116, Dec p 163
    British Museum of Natural History, 1961 Aug
      p 56, 1964 July p 61, 1965 Nov p 113, 1966
      Sept p 109, 1969 Apr p 97, 1970 May p 44,
      1975 Dec p 54
    British Museum of Science, 1964 Jan p 106,
      Sept p 204
    British National Coal Board, 1958 Mar p 33,
     Sept p 59, 1972 Oct p 31
    British National Health Service, 1949 Apr
     p 27, 1973 Sept p 58
   British National Institute of Oceanography,
     1975 June p 90
   British National Physics Laboratory, 1970 Oct
     p 68
   British National Portrait Gallery, 1957 Feb
     p 118
   British Nature Conservancy, 1970 Apr p 73
   British Nuclear Fuels, Ltd, 1976 Dec p 31, 35
  British Overseas Airways Corporation, 1952
     Dec p 36
  British Parliament, 1963 Sept p 171, 1970 July
    p 17, 1977 Jan p 21, 24-26
  British Petroleum Company Limited, 1963 Sept
    p 118, 120, 180, 1964 Apr p 94, 1965 Oct
     p 15, 16
  British Rayon Research Association, 1960 May
    p 144
  British Royal Aeronautical Society, 1977 Oct
    p 74
  British Royal Air Force, 1952 Feb p 36, 1957
    Jan p 52, 1960 Aug p 49, 1965 Dec p 50
  British Royal Cancer Hospital, 1960 Jan p 99,
    101, 106, 108
  British Royal College of Chemistry, 1957 Feb
    p 111, 117
  British Royal College of Surgeons, 1971 Nov
    p 91, 1973 June p 40
  British Royal Field Artillery, 1970 Dec p 106
  British Royal Greenwich Observatory, 1949
    Aug p 25, 1953 Oct p 52, 1961 June p 115,
    1977 May p 80, 81
 British Royal Institution, 1957 Jan p 47, 1966
   Nov p 84, 86
 British Royal Naval Scientific Service, 1953
   June p 32
 British Royal Navy, 1954 June p 52, 1966 July
 British Royal Radar Establishment, 1966 June
   p 31, 1973 June p 38, 1977 Sept p 64
 British Royal Society, 1951 Feb p 34, 1953
   May p 88, Oct p 91-93, 96, 1954 Oct p 69,
   1955 Oct p 104, 1956 Jan p 46, 1957 Jan
  p 77, Dec p 119, 1960 June p 107-110, 115,
   116, Oct p 163, 168, 1964 May p 108, 1965
  June p 115, 1966 Aug p 91, 1968 Apr p 59,
   1970 Apr p 85, May p 118, 120, July p 23,
  Sept p 141, Oct p 114, 1971 Feb p 105,
  Dec p 30, 73, 1977 June p 129
 British School of Archaeology, 1954 Apr p 77,
   1963 Oct p 100, 1965 Apr p 83, July p 84
British Signals Research Development
  Establishment, 1962 Apr p 146
British Standards Institution, 1970 July p 23
British Trust for Ornithology, 1957 May p 128
British United Steel Companies, 1963 Dec
Brittain, Walter H., 1977 Sept. p. 74
Britten, D H V 1956 Jan p 30
Britten, Roy J. 1969 Oct p 28, 35, 1970 Apr
  p 24, 26
Broadbent, Donald E., 1956 Oct p 74, 1964
  Apr p 120, 1970 Dec p 30, 1971 Aug p 82,
  1973 Mar p 70
Broadcasters' Nonprofit Satellite Service, 1966
```

```
Sept p 101
      Brobeck, John R, 1956 Nov p 109
      Brobeck, W M, 1966 Nov p 109
      Brobeck, William, 1954 May p 52
      Broca, Paul, 1948 Oct p 29, 30, 36, 37, 1972
        Feb p 22, 29, Apr p 76, 78-83
      Brock, J F, 1956 Feb p 56
      Brock, Lawrence, 1960 Oct p 121
      Brock, Russell C, 1950 Feb p 27, 1956 May
      Brock, T D, 1977 Aug p 96
      Brock, Vernon E, 1962 June p 138
     Brockelman, Richard A, 1968 July p 31
      Brocklehurst, W E, 1963 Nov p 106
     Brockmann, Hans, 1955 Jan p 55, 1974 Aug
       p 82, 84
     Broda, E E, 1950 Aug p 40
     Brodal, Alf, 1975 Jan p 60
     Brodal, Per, 1976 Nov p 92
     Brodbeck, Urs, 1969 July p 62
     Brodda, Benny, 1978 Jan p 125
     Brode, Robert B, 1949 Mar p 35, 1960 Sept
      p 98
    Brode, Wallace R, 1953 June p 48, 1957 Feb
      p 60, 1958 Feb p 44, 1959 Jan p 62, 1960
      Feb p 66
    Brodey, Robert S, 1968 Aug p 39
    Brodie, Bernard B, 1955 Oct p 86, 1957 Dec
      p 55, 1970 Feb p 44, 1975 June p 26
    Brodman, Keeve, 1959 Sept p 113
    Brodskij, A K, 1962 Sept p 198
    Brodsky, Alan L. 1973 May p 44
   Brody, Howard, 1977 June p 105
   Brody, Philip N, 1964 Nov p 51
   Brody, Seymour S, 1960 May p 145, 1974 Dec
     p 79
   Broek, Antonius van den, 1956 Nov p 102
   Broers, Alec N, 1972 Jan p 58, 1973 Apr
   Brogder, W J, 1956 Aug p 45
   Broglie, Louis de, 1948 May p 51, 52, 1949
     Mar p 53, 55, 1950 Sept p 30, 1952 Aug
    p 40, Dec p 42 44, 1953 Sept p 54, 56,
    1954 Aug p 38, 1955 Jan p 42, 1958 Jan p
    51, 54, Sept p 77, 82, 1960 July p 152, 1963
    May p 47, 50, 51, 1964 Aug p 77, Oct p 36,
    1965 May p 63, 65, 1967 Sept p 83, Nov
    p 27, 110, 1972 Oct p 106, 107, 1976 Jan
    p 61, Oct p 47
  Broida, Herbert P., 1957 Mar p 92, 94
  Brokaw Charles J, 1974 Oct p 51
  Broman, Birger, 1968 Jan p 22
  Bromberg, Walter, 1969 Dec p 19, 21-24
  Bromley, Abbots, 1952 May p 25
 Bron, A J 1975 Dec p 80
 Bronfenbrenner, Urie 1962 May p 47, 1974
   Aug p 53
 Brongniart, Alexandre 1963 Feb p 76
 Bronk, Detlev W, 1950 Dec p 26 1951 Feb
   p 30, June p 30, 1952 Nov p 57, 1953 May
   p 54 Aug p 41, 1956 Feb p 49 Mar p 52
   May p 54 Oct p 68, Dec p 115, 1958 Jan
   p 46, 1963 Dec p 94, 1966 May p 103, 1970
   July p 58 1972 June p 92
 Bronowski J 1958 Sept p 64 1963 Fcb p 47
Bronson Wilfred S 1949 Dec p 54 55
Bronte Charlotte 1949 Oct p 31
Bronte Emily, 1949 Oct p 31 1958 Sept
  p 162
Bronte-Stewart B 1956 Fcb p 56
Bronx High School of Science 1958 Apr p 59
Bronx Zoo 1957 Dec p 50
Brooke Edward W 1973 Nov p 27
Brooke John 1963 July p 56
Brookhaven National Laboratory 1943 June
 p 24, Oct p 25, Nov p 24 Dec p 9, 1949
 July p 27 1950 Jun p 29, Dec p 29 1952
```

Mar p 40, June p 19, 21, July p 34, 1953 Mar p 44, May p 40, 42, 43, June p 46, Aug p 23, 24, 26-29, Sept p 64, Nov p 36, 39, 1954 Mar p 45, Sept p 74, 1955 Jan p 43, Feb p 49, 50, 1956 June p 54, Sept p 112, 1957 Jan p 64, 84, 90, Apr p 45, Sept p 189, 1958 Mar p 66, 71, Apr p 37, June p 39, Oct p 53, 1959 Feb p 64, 1960 Apr p 88, June p 64, Sept p 99, 1961 May p 76, July p 55, Aug p 61, Nov p 52, 1962 May p 74, Aug p 36, 37, 42, 43, Oct p 78, 79, 1963 Jan p 41, Mar p 60, 61, 68, June p 41, 45, July p 65, Aug. p 106, 110, Oct p 42, 44, 54, Nov p 126, Dec p 122, 127, 129, 1964 Apr p 60, 61, 62, June p 54, July p 44, Sept p 128, 144, Oct. p 36, 39, 40, 43, 1965 Apr p 78, Dec p 29, 32, 1966 Feb p 43, July p 74, 77, Aug p 41, Nov p 112, 115, 116, 64, 1969 Mar p 48, 1970 Apr p 73, Aug. p 71, 81, Sept p 66, 69, 70, 114, 1971 Oct p 86, 1972 Nov p 49, 1974 Aug. p 46, Dec p 115, 1975 Jan p 48, Feb p 40, May p 43, June p 54, 58, July p 46, Oct p 42, 1976 Apr p 55, Aug. p 42, Oct p 49, 51, 1977 June p 41, Aug. p 112, Oct p 59, 69, 1978 Jan p 39, Mar p 69, 72 Brooklyn College, 1964 Sept p 156 Brooklyn Hospital, 1966 May p 50 Brooklyn Polytechnic Institute, 1964 July p 105 Brooks, C J W, 1977 Feb p 83 Brooks, David B, 1963 Sept p 126 Brooks, Harry M Jr., 1949 Aug p 32 Brooks, Harvey, 1969 Oct p 46, 1970 Feb p 13, 1971 Aug p 44, 1972 Feb p 13 Brooks, Lee R, 1968 Sept p 212, 214 Brooks, Neil H, 1971 Dec p 25 Brooks, Overton, 1961 Aug. p 62 Brooks, Robert E., 1962 Dec p 130, 1968 Feb p 44, 45, 1976 Oct p 86 Brooks Robert R., 1970 Sept p 164 Brooks, Virginia, 1971 Dec p 68 Brooks W K., 1961 Jan p 150 156 Broom, Robert, 1948 May p 16-18 1949 Jan p 29, Mar p 40, Nov p 20, 24, 1950 Feb p 28. Sept p 90, 1953 Dec p 66, 1958 July p 77, 1966 Nov p 50, 1970 June p 52 Broome John D, 1968 Aug. p 36 Brorsen, T J C A, 1971 Aug. p 47 Brosse, Therese 1972 Feb p 85 Brossel J. 1960 Oct p 73 Brostrom Shipping Combine, 1950 Aug p 43 Brothman A 1949 Jan p 21 Brotman Herman 1973 Sept p 51 Brouwer Dirk 1959 Apr p 93, 1961 Apr p 69 1973 Jan p 61 Brouwer L. E. J. 1949 May p. 23, 1950 Jan p 24. Sept p 40 1953 Nov p 75 1954 Apr p 86 1964 Sept p 47, 1966 Jan p 106 107 103 110, 1967 Dec p 112 Broverman Inge 1974 Sept p 145 146 Brower Lincoln P 1967 June p 109 Brown A H 1948 Aug. p 31 Brown A W A 1951 Apr p 35 Brown Adman J 1959 Aug p 120 Brown Mlan 1953 Mar p 72 Brown Barnam 1951 I cb p 16 Brown Bosen and Company Ltd 1969 Apr p 102 106 1971 Jan p 81 Broan Clasten 1975 Mar p 95 99 Brewn David 1969 Feb p 43 Brown Denald D. 1968 Dec. p. 31, 1973 Sept. D () Brown Douglas V 1975 Nump () 1976 Npr p 44 45 Br = 1 Do 141 S 1555 Oct p 37 + 143 Bic an 1 W 1970 Mar p 45

Brown, Ed, 1958 May p 69 Brown, Ernest W, 1948 May p 41 Brown Frank A Jr, 1955 July p 92, Oct p 46, 1975 Feb p 73 Brown, G E, 1959 Jan p 82 Brown, G L, 1962 Aug p 53 Brown, G Spencer, 1953 Oct p 54 Brown, G W, 1963 Nov p 112 Brown, George R., 1955 May p 50, 1956 Mar p 49 Brown, George S, 1974 May p 26 Brown, Glenn H., 1956 July p 52, 1964 Aug p 77 Brown, Gordon C, 1952 Sept p 46, 1956 Jan p 52 Brown, H Rap, 1971 Dec p 13 Brown, Harold, 1969 Aug. p. 18, 1971 Mar p 44, 1972 Nov p 17, 1973 Nov p 25 Brown, Harrison S, 1948 May p 42, 43, Oct p 24, 1949 Feb p 17, 1950 Oct p 14, 17, 1951 Oct p 33, 1954 Jan p 42, Nov p 41, 1955 Oct p 37, 1956 Sept p 82, 1957 Apr p 81, 1960 Jan p 82, 91, 93, Sept p 98, 202, Nov p 182, Dec p 76, 1963 Sept p 135, 1970 Sept p 132, 195, 51, 1974 Mar p 51, 1977 Dec p 86 Brown, Harry D, 1971 Mar p 30 Brown, Henry, 1951 Feb p 36 Brown, Jack N, 1950 May p 28 Brown, James H, 1971 Nov p 104 Brown, John F, 1958 July p 50, 1959 July p 58, 1962 Nov p 102 Brown, John L., 1956 May p 59, 1957 Apr p 46, 1964 June p 59 Brown, Joseph R., 1952 Sept. p 105 Brown, Kenneth S, 1971 Nov p 50 Brown, Kenneth W G, 1968 July p 21 Brown, Lester R., 1970 Sept p 161, 1976 Sept p 32, 36 37 Brown M S, 1967 Aug. p 62 Brown, Marcus, 1948 Aug p 14 Brown, Martin, 1976 June p 43 Brown, Nicholas A., 1975 Dec p 70 Brown, Nigel L, 1977 Dec p 56 Brown Paul K , 1950 Aug. p 41, 1963 Oct p 93, Dec p 68, 1964 May p 60, Nov p 57, Dec p 54, 56, 1972 May p 50, 1977 Dec p 110 Brown R H J, 1962 Aug. p 104, 1975 Nov Brown, R. Hanbury, 1953 Jan p 20, Mar p 50, 1954 July p 35, 1962 Mar p 42, 1971 July p 74 Brown, Ralph S Jr., 1954 June p 30 Brown Ray K, 1952 July p 42 Brown, Robert 1949 June p 30, 1950 July p 49, 1951 Dec p 45, 1969 Mar p 67, 1975 Scpt p 147 Brown Robert A., 1976 May p 114 115 Brown Robert L, 1976 Oct p 65 Brown, Roland W, 1956 Sept p 116 Brown Sanborn C 1959 Mar p 70, 1960 Oct p 164 166, 1973 Oct p 24 Brown Stanley, 1966 May p 88 Brown T Graham 1976 Dec p 72, 82 84 86 Brown Thomas McP, 1951 Aug. p. 30 Brown University 1963 July p 120 1964 Mar p 94 July p 27, 1965 Mar p 35 39 1968 June p 27 Brown Vinson 1949 Dec p 54 Brown William L. 1956 May p. 64, 1955 Mar p 39 1903 May p 95, 1967 Oct p 62. Browne C I 1956 Dec p 67 Broxe J S L 1950 Mar p 33-35 Bre sne, The mas Sir, 1957 Oct p 109 1975 Num p 50 to 1977 June p 129 Browne William R , 1972 Mar p 57

Brownell, Gordon L, 1975 July p 42 Brownell, Lloyd E., 1954 Nov p 50, 1955 Oct p 41 Browning, Elizabeth, 1949 Oct p 31 Browning Robert, 1952 Feb p 24, 1959 May Brownlee, George, 1973 Aug. p 26, 1976 Jan p 73 Brownlee W H, 1971 Nov p 73 Brozek, Josef, 1952 June p 34 Bruce, David, Sir, 1962 Aug. p 67 Bruce, Helen, 1963 May p 101 Bruce, W N, 1952 Oct. p 23 Bruce, William E., 1967 Sept p 113 Bruce-Mitford, R. L. S, 1960 Feb p 74 Brueckner, Keith A, 1959 Jan p 79, 1963 Jan Bruegel, Pieter the Elder, 1978 Mar p 134-140 Brueghel, Pieter the Elder, 1973 Sept. p 23, 1974 Sept. p 161 Brueschke, Erich E., 1967 Feb p 97 Brueschke, JoAnn, 1967 Feb p 97 Brugmann, Karl, 1952 Apr p 84, 1972 Sept Brugnatelli, Luigi, 1960 June p 109, 110, 1963 Nov p 96 Bruguieres, Jean-Guillaume, 1975 Apr p 99 Bruice, Thomas C, 1964 Dec p 72 Brumley, George, 1973 Apr p 82 Brummer, S B, 1970 Nov p 53 Brumpt, E., 1956 Nov p 130 Brunauer, Stephan, 1964 Oct p 60 Brundage, W D, 1976 Oct p 65 Brunel, Isambard K., 1977 July p 82 Brunel, Marc I, 1977 July p 82 Brunell, Philip A, 1969 Aug p 56 Bruner, H D, 1952 Feb p 32 Bruner, Jan 1970 July p 59 Bruner, Jerome S. 1968 Aug. p 93, 1971 Mar p 104, 1972 Sept p 76, 1974 Dec p 25 Brunetti, O A, 1975 Jan p 102 Brunhes, Bernard, 1967 Feb p 44 48 Bruni, Alessandro, 1968 Feb p 39 Brunnock, J V, 1975 June p 92 Bruno, Giordano, 1949 Aug p 46, 1966 Oct p 88, 1973 Apr p 86 94 Bruno, Lorenzo, 1957 Jan p 77 Bruns, P D, 1955 Dec p 44 Bruns, V von, 1971 Jan p 98, 101 Brunsting, Louis A., 1957 Mar p 140 Brush, Charles, 1959 Nov p 99, 100, 105, 106 Brussels Exhibition 1958 1961 Aug. p 84 Bruton, Ogden C 1956 Dec p 128, 1957 July p 93, 94, 96, 1974 Nov p 59, 61, 70 Bruun, Anton F 1952 July p 40, 1954 Feb p 50, 1957 Nov p 50, 1962 Aug p 46 Bruyn M de 1949 Nov p 21 Bryan Kirk, 1952 Dec p 73, 1970 Sept p 63 Bryan R. A., 1960 Mar p 111 Bryan, William J, 1955 Feb p 70, 1959 Jan p 120-123, 126-128, 1967 July p 42, 1969 Feb p 18-21, 19 Bryant, Howard C, 1977 Apr p 127 Bryant, Peter J 1977 July p 67 76 Bryant, Susan V. 1977 July p 67, 69-71 Bryant, Vaugh M. Jr., 1975 Jan. p. 100 Bryant William C, 1951 Sept p 46 Bryn Maar College 1958 Dec p 37 1963 Jan p 109 Bryson Bernarda 1951 Apr p 52, July p 53 Sept p 29, 1952 Jan p 67, Mar p 49, June p 23, 1953 Feb p 79, May p 46, Nuz p 77, 50. Nov p 74 1954 Feb p 25, Sept. p 60 Oct p 33 1955 Jan p 29 May p 33 34 19.6 Jan p 71 Feb p 110 Aug p 44 46. Sept p 1°6, 1961 May p 107 Dec p 46 1971 Mar p 20

Bryson, Vernon, 1952 Sept p 68 Bucha, V, 1971 Oct p 68 Buchanan, Colin, 1965 Sept p 169 Buchanan, J Michael, 1974 Jan p 95 Buchanan, John M, 1949 Feb p 35, 1961 June p 146, 1968 Oct p 67 Bucher, Nancy, 1958 Mar p 124 Bucher, Walter H, 1951 Nov p 50, 1955 Apr p 77, 1956 Dec p 92, 1961 Aug p 54 Buchhold, Theodore A, 1960 Mar p 74, 1961 July p 125 Buchi, George, 1964 Nov p 60 Buchner, Eduard, 1948 Dec p 30, 31, 1950 Sept p 63, 1953 Apr p 85, 1959 June p 90, 96, 1960 Feb p 140, 142, 1967 Nov p 26, 1968 Oct p 64 Buchner, Hans, 1950 Sept p 63, 1951 Feb p 48, 1953 Apr p 85, 1959 June p 90, 96, 1960 Feb p 140, 142 Buchner, Paul, 1950 Nov p 31 Buchsbaum, Ralph, 1956 Nov p 121 Buchsbaum, S J, 1963 Mar p 106 Buchta, J W, 1958 May p 54 Buck, Alfred A, 1975 Oct p 53, 1977 Aug p 97 Buck, Carol W, 1959 Sept p 226, 229 Buck, D A, 1956 June p 64 Buck, Douglas L, 1966 June p 100 Buck, Dudley, 1961 July p 125, 126 Buck, John D, 1970 May p 48 Buck, Paul H, 1953 Mar p 44 Buck, Pearl, 1967 Nov p 25 Buck, Peter, 1956 Aug p 59, 60 Buck, Richard, 1952 July p 26 Buckholz, E, 1970 Dec p 80 Buckhout, Robert, 1974 Dec p 23 Buckhurst, Lord, 1977 Nov p 142 Buckingham, Sue, 1973 Apr p 80 Buckland, Dean, 1948 July p 17, 1959 Aug Buckland, William, 1959 Nov p 168, 170 Buckle, C, 1957 May p 103 Buckley, Edward S Jr, 1954 Feb p 57 Buckley, James L , 1976 June p 24, 25 Buckley, Oliver E, 1951 June p 30, 1952 Mar p 34, 1975 Oct p 108, 109 Buckley, W Derek, 1977 May p 44 Budapest Technical University, 1950 July p 26 Budd, William, 1949 Oct p 36 Buddenbrook, Hanno, 1957 Dec p 98 Buddha, Gautama, 1950 Sept p 22, 1964 Feb p 89, 1967 Feb p 105, May p 69 Buddingh, G J, 1949 Nov p 51 Buder, Johannes, 1975 Aug p 36, 38 Budge, J L, 1974 June p 64 Budgett, H M, 1963 Mar p 135 Budinger, Thomas F, 1972 Sept p 35 Budington, Sydney, 1969 Mar p 52 Budker, Gersh I , 1956 Aug p 32, 1958 Mar p 74, 1966 Nov p 112, 1972 Apr p 27, 1977 Apr p 58 Budyko, M I, 1970 Sept p 62 Budzanowski, A, 1974 July p 70 Budzilovich, T, 1963 Nov p 103 Buechner, Eduard, 1971 Mar p 26 Buechner, Helmut K, 1960 Nov p 133 Buehl, Russell C, 1952 May p 36 Buehler, Ernest, 1962 June p 62, 63 Buehler, J N, 1972 June p 100 Buehler, Karl, 1949 Oct p 52 Buell, Donald N, 1973 June p 86 Buerger, Heinrich, 1956 July p 43 Buerger, Marun J, 1951 July p 37, 1956 Feb p 49 Buescher, Edward L., 1962 Sept p 104, 1966 July p 32 Buff, Conrad, 1949 Dec p 55

Buff, Mary, 1949 Dec p 55 Buffalo General Hospital, 1963 Mar p 122, 125 Buffon, Georges, Count de, 1948 Aug p 39, 1955 Oct p 100, 1959 May p 62, 1975 Sept Bugher, John C, 1951 June p 47, 48, 1955 Mar p 65 Bugnard, Louis, 1955 Oct p 28 Buhl, David, 1969 May p 54, 1973 Mar p 60, 1974 May p 110, 1978 June p 96 Buhler, Charolotte, 1966 Aug p 82 Buhler, Karl, 1972 Sept p 82 Bukasov, S M, 1962 Nov p 49 Bukshpan, S, 1971 Oct p 94 Bulen, William A, 1974 Oct p 69 Bulfinch, Charles, 1957 Jan p 70 Bull, Lionel B, 1954 Feb p 32 Bull, Robert J, 1977 Jan p 104 Bull, T H, 1968 Oct p 45 Bullard, B, 1975 Nov p 37 Bullard, Edward C, Sir, 1949 Nov p 42, 1950 June p 23, 24, Dec p 55, 56, 1956 Feb p 50, 1961 Dec p 56, 1963 Apr p 93, 1965 June p 108, 1966 July p 19, Aug p 40, 1967 Feb p 53, 1968 Apr p 53, 54, 59, 1969 Sept p 56, 127, Nov p 106, 114, 1970 Feb p 32 Oct p 34, 1972 May p 59, 1977 Aug p 65 Bullard, Ellen, 1974 July p 101 Bullard, Reuben G, 1978 Jan p 116, 120 Bullen, K E, 1955 Sept p 57, 1965 June p 106, 1973 Mar p 26, 33 Bullen, Ripley P, 1963 May p 125 Buller, Reginald, 1956 May p 100 Bullett, Gerald, 1975 June p 50 Bulliere, Dersire, 1977 July p 68, 71 Bullivant, Stanley, 1970 May p 79 Bullock, Theodore H, 1967 Mar p 52, May p 49, 1972 July p 93, 1973 May p 97, 98, 1978 Feb p 100 Bullough, WS, 1967 July p 44, 1974 Jan p 63 Bulos, Bernard, 1968 Feb p 39 Bulos, Fatin, 1967 Oct p 41, 43 Bumba, Vaclav, 1966 Nov p 60, 1968 Jan p 107, 109, 111, 1975 Apr p 109 Bump, Lavinia, 1967 July p 102-105, 108 Bumpass, Larry L, 1974 Sept p 143 Bund, Christiaan van de, 1969 Apr p 97 Bundesen, Herman N, 1955 Aug p 50 Bundy, Francis B, 1975 Nov p 104 Bundy, Francis P, 1955 Apr p 47, Nov p 46, 1960 Jan p 74, 1965 June p 106, Oct p 35, 1974 Aug p 62 Bundy, Gordon, 1971 Nov p 89 Bundy, McGeorge, 1966 Feb p 53, Sept p 101, 1972 Jan p 22 Bundy, R. P, 1970 Nov p 99 Bunker, Don L, 1966 Sept p 165 Bunker, John P, 1970 Mar p 60 Bunker-Ramo Corporation, 1964 Sept p 188, 1966 Sept p 196 Bunn, C W, 1964 Nov p 83 Bunner, Alan N, 1971 Dec p 26, 1975 Dec Bunning, Erwin, 1976 Feb p 115, 118, 121 Bunsen, Robert, 1953 May p 29, 1961 Dec p 84, 1963 Jan p 89, 1968 Sept p 75, 1970 May p 116 Bunting, Henry, 1953 Dec p 40 Bunting, Mary I, 1964 May p 60, 1978 Feb p 76 Bunyan, John, 1949 Oct. p 31 Burack, Benjamin, 1952 Mar p 70 Burbank, Luther, 1949 Dec p 56, 1978 June Burbidge, E. Margaret, 1956 Sept p 88, 1961

June p 119, 1962 Apr p 63, 1966 Feb p 50, July p 54, Dec p 41, 43, 45, 52, 1970 Dec p 22, 1973 Dec p 40, 44, 1974 May p 108, 1976 Dec p 95 Burbidge, Geoffrey R, 1956 Sept p 88, 1959 July p 80, 1961 June p 119, Sept p 88, 90, 1962 Mar p 49, Apr p 63, 1963 Dec p 61, 1964 June p 42, 43, 1966 July p 54, Aug p 32, Dec p 40, 1969 Jan p 28, Feb p 38, 1970 Oct p 54, Dec p 24, 28, 1973 Dec p 40, 44, 1974 May p 108, 1975 Aug p 32, 1976 Dec p 95 Burch, J M, 1968 Feb p 42 Burchard, John, 1961 Dec p 116 Burchenal, Joseph H, 1964 May p 93 Burd, A C, 1951 Aug p 26 Burden Neurological Institute, 1962 June p 143 Burden, Robert P, 1977 May p 24 Burdenko, N N, 1970 Mar p 72 Burdin, Marcel, 1969 Jan p 89 Burg, Anton B, 1964 Jan p 90 Burg, Stanley, 1976 June p 54 Burgeff, Hans, 1966 Jan p 75, 77 Burgen, A S V, 1968 Apr p 73 Burger, Charles, 1964 May p 91 Burger, Max M, 1974 Jan p 64, July p 87, 1977 June p 113 Burgers, J M, 1961 Oct p 109, 110, 1977 Dec p 135, 136, 144 Burgess, David S, 1977 Apr p 26 Burgess, Ernest, 1954 Mar p 41 Burgess, Gelett, 1955 Apr p 84 Burgess, Paul R, 1972 June p 96 Burgess, Richard, 1970 June p 44 Burgess, Thornton W, 1949 Dec p 52, 54, 55 Burgos, M H, 1961 Feb p 115 Burgus, Roger, 1974 Sept p 53, 1977 Dec p 82 Burgy, M T, 1957 Oct p 56, 1959 Mar p 82 Buridan, Jean, 1963 Feb p 144, 1970 Aug Burk, Dean, 1949 Aug p 34, Sept p 16 Burke, A W, 1955 Mar p 60 Burke, Bernard F, 1955 June p 52, 1964 July p 36, 1968 Dec p 42, 1973 June p 34 Burke, David, 1975 Apr p 93 Burke, Derek C, 1958 Aug p 48, 1961 May p 52, 1963 Oct p 46, 1977 Apr p 42 Burke, Edmund, 1958 June p 25, 1969 July p 41, 1970 May p 52 Burke, John F, 1968 Feb p 43 Burke, Kevin C, 1977 Mar p 102, Apr p 36 Burket, Tom, 1977 Oct p 109 Burkhalter, Res, 1976 July p 110 Burkhardt, G, 1950 Feb p 44 Burkhart, William, 1950 Dec p 24, 1952 Mar p 73 Burkholder, Paul R., 1949 June p 28, Aug p 32, 34 Burkitt, Denis, 1962 Apr p 74, 1973 Oct p 29 Burkman, A M, 1965 July p 97 Burleson, G R, 1962 Aug. p 36, 1972 Nov p 105 Burlingame, Alma L, 1972 Oct p 89 Burmester, Ben R., 1974 Nov p 61 Burndy Library, 1971 Feb p 110 Burnet, Frank Macfarlane, Sir, 1949 Nov p 51, 52, 1952 Dec p 28, 1953 Apr p 30, Dec p 39, 1954 June p 73, Nov p 78, 1957 Feb p 37, Sept p 200, 1960 Dec p 74, 1961 May p 53, Aug p 118, Sept p 144, 1962 Nov p 50, 1963 June p 80, Nov p 106, 1964 Feb p 58, May p 92, July p 66 71, 74, Dec p 115, 1967 Nov p 28, 1970 Aug. p 34, 1972 June p 30, 37, 1973 July p 55, 56, 1974 Nov p 60 67, 1976 May p 30 Burnett, L. 1954 Feb p 57

Burney, Christopher, 1957 Jan p 56 Burney, Leroy E, 1956 Oct p 67, 1959 Apr p 67, Aug. p 65, 1960 Oct p 82 Burnham, C A, 1975 July p 42 Burnham, Charles R., 1951 Aug p 44 Burnham, Daniel, 1955 Mar p 45 Burns, Arthur F, 1975 Jan p 18, 1977 Nov p 45 Burns, B D, 1963 Oct p 28 Burns, Delisle, 1958 Sept p 138 Burns, Gerald, 1963 July p 38 Burns, J, 1956 Mar p 88 Burns, Joseph A, 1978 Mar p 77 Burns, Major, 1971 Feb p 47 Burns, Richard C, 1974 Oct p 69 Burns, Robert K., 1951 Oct p 66, 1954 Feb p 46 Burnside, Mary Beth, 1978 June p 109 Burny, A, 1976 Aug p 63 Burr, David, 1976 Mar p 85 Burr, Harold S, 1949 June p 26 Burris, Robert H, 1953 Mar p 41, 1977 Mar Burroughs, Alan, 1952 July p 23 Burroughs Corporation, 1966 Sept p 75, 82, 88, 1971 Feb p 76, 1973 June p 66, 67, 1977 May p 37, 46, Sept p 163 Burroughs Wellcome and Company, 1964 May p 93 Burrows, William, 1971 Aug. p 20 Burrus, C A, 1970 June p 52 Burstrom, D, 1961 June p 139 Burt, Cyril, Sir, 1963 Mar p 96, 1970 Oct p 24 Burt, Olive W, 1949 Dec p 56 Burt, Robert C, 1975 Jan p 44 Burtman, V S, 1977 Apr p 40 Burton, A C, 1956 Feb p 114 Burton, C E, 1953 May p 67 Burton, D J, 1975 July p 109 Burton, E. T., 1949 June p 33, 1956 Jan p 35 Burton, Glenn W, 1975 June p 15 Burwell, J T Jr, 1951 Feb p 57 Burwell, Robert L Jr, 1971 Dec p 46 Busa, Father Robert, 1957 Oct p 64 Busch, H, 1950 Oct p 32 Bush, Vannevar, 1948 June p 9, Nov p 24, 1949 Feb p 14, Apr p 30, May p 26, Nov p 29, 1950 July p 11, 1952 Mar p 73, Sept p 148, 1953 Jan p 30, 1954 Mar p 30, 32, 1955 Feb p 52, 1957 Nov p 48, 1958 Jan p 44, \pr p 64, 1960 June p 82 Bushland, R C 1960 Oct p 56 Busignies, Henri, 1972 Sept p 33 Busk, George, 1959 Nov p 176 Buskirk, Elsworth R., 1970 Feb p 53 Busnel, Rene Guy, 1956 Aug. p. 54, 1959 Nov p 120, 123, 124, 130, 131 Buss, Irven O, 1960 Nov p 133 Busse, Friedrich H., 1976 Mar p 53 Bustamente, Roberto C, 1951 Apr p 32 Bustard, Leo K, 1966 June p 94, 97 Buswell Arthur M. 1966 Dec p 118 Buswell, Guy T. 1968 Aug. p 90 Butcher Reginald W, 1969 June p 83, 84, 1977 Aug p 110, 111 Butel Janet S. 1966 Mar p 36 Butenandt, Adolf I J. 1949 Dec p 17 1953 Dec. p 54 1955 Jan p 55, 56, 60, 1963 May p 101 1964 Aug p 23, 24, 1966 May p 52, 1967 Nov p 27 28 1974 July p 28, 35 Butler, Bist . p. 1952 Mar p. 62 But'er Charles G. 1972 Sept p 56 Butler Celia G., 1980 Junep 28, 1952 Jan p 20 1955 Au. p 57, 1956 Apr p 66 Burler, Colbert W 1975 June p 71 Butler H 1 1952 J by p 57

Butler, Howard C, 1961 June p 124 Butler, James N, 1975 June p 90 Butler, John W, 1969 Feb p 17-19 Butler, Robert A, 1959 June p 72, 1961 June p 68, 1969 July p 112 Butler, Samuel, 1950 Oct p 47, 1952 Mar p 73, 1959 May p 61, 64, 1967 Feb p 35 Butler, W H, 1964 Nov p 60 Butler, Warren L, 1969 Dec p 64, 1976 June p 43 Butschli, Otto, 1975 Aug. p 36 Butterfield, Herbert, 1959 Aug. p 104 Butterfield, William H , 1967 Mar p 81 Buttrey, T V, 1978 Jan p 113 Butzer, Karl W , 1976 Aug. p 31, 34 Buu-Hoi, N P, 1954 Nov p 49 Buxton, Patrick A, 1969 Jan p 95 Buytewech, Willem, 1974 Nov p 23 Buz, Heinrich von, 1969 Aug p 109 Buzzati-Traverso, Adriano A, 1951 Oct p 24, 1953 Aug. p 46, 1967 Nov p 72, 1972 Jan p 100 Byard, Margaret M, 1977 June p 121 Byatt, Pamela H., 1961 July p 64 Byer, R. L., 1968 Sept. p 134 Byerly, Perry, 1973 Mar p 28 Byerly, T C, 1960 Sept p 98 Byers, Breck, 1967 Sept p 104 Byers, Douglas S, 1966 June p 109 Byers, Horace R., 1950 June p 48, 1953 July p 38 Bygdeman, Marc, 1971 Nov p 89 Bygott, David, 1973 Aug p 71 Bykov, K. M., 1954 Sept. p 82 Byram, Edward T, 1959 June p 57, 1963 Dec p 68, 1964 June p 37, Sept p 86, 1966 Apr p 50 Byrd, E. William, 1977 Nov p 129 Byrd, Richard E., Admiral, 1951 July p 16, 1955 Feb p 62, 1956 Jan p 70, 1957 Dec p 50, 1960 Jan p 120, 1962 Sept p 64 Byrd, William, 1973 Sept p 139 Byrnes, Frank, 1949 June p 52, 53, 55 Byron, George G, Lord, 1948 May p 47, 1966 Sept p 68 Bytchenko, B, 1968 Apr p 69, 70 Byther, Ralph S, 1975 Jan p 81, 87, 88

C

C G Conn Ltd, 1973 July p 30 Cabibbo, N , 1964 Dec p 62 Cabot, Richard C, 1974 Nov p 22 Cacace, F., 1968 Oct. p 52 Cade, J F J., 1973 Sept p 121 Cadle, Richard D, 1971 Jan p 40 Cady, Hamilton P, 1967 Feb p 77 Cady, Walter G. 1952 Dec p 42 Caedmon, 1952 Apr p 44 Cack L. C., 1976 Dec p 119 Caen, Herb, 1973 Dec. p 110 Caesar, Augustus, see Augustus Caesar Caesar, Julius, 1949 Aug. p 11, 1951 June p 58 1952 June p 23, 1953 Oct p 88, 1954 Nov p 100 1956 Nov p 81, 1958 Mar p 42, 1963 Aug. p 66, 1965 Sept. p 63, 1971 June p 93, 1972 Sept p 78, 1974 Nov p 96, Dec p 97, 121, 1977 Feb p 39 Calley, John 1972 Oct p 47 Cage, John, 1959 Dec p 112 Caple, I W Jr 1955 Nov p 46 Cahill Ga 150 F , 1965 Aug. p 63, 1971 Oct. p 16 17 19, 20 Cahill Laurence J., 1959 Mar p. 40, Sept. p 110, 1563 May p 91, 1565 May p 37, Dec

Cahn, J W, 1974 Dec p 90 Cahours, Auguste, 1963 Nov p 96, 98 Cain, A J, 1975 Aug p 53, 57 Cain, Dan L, 1969 Mar p 80 Cain, Harry P, 1949 July p 26 Caird, R. S., 1965 July p. 64, 65, 68 Cairns, John, 1955 Apr p 98, 1957 Feb p 42, 1967 Feb p 40, 1975 Nov p 64, 1977 Feb p 85 Cais, M, 1971 Nov p 30 Caius, John, 1955 May p 35 Cajal, Santiago Ramon y, 1958 Aug p 86, 1965 Jan p 56, 1967 Nov p 26, 1969 Feb p 100, 1970 July p 57, 58, 63, 1971 July p 48, 60, 1975 Jan p 56, 58 Cajlachjan, M C, 1952 May p 52, 53 Calcagno, Philip L, 1957 July p 96 Calcar, Jan S von, 1948 May p 24-31 Calcutta Metropolitan Planning Organization, 1965 Sept p 93, 95, 102, 1968 Nov p 30 Caldwell, Joseph R., 1971 June p 102 Caldwell, Peter, 1970 Apr p 86, 88 Caldwell, Roy L, 1976 Jan p 81, 84 Calef, Wesley C, 1956 Apr p 68 Calhoun, John B, 1963 May p 101, 1967 Jan p 81, 1973 Aug. p 47, 1976 Oct p 105 California Academy of Sciences Steinhart Aquanum, 1977 Mar p 106, 108, 110 California Agricultural Experiment Station, 1970 Feb p 93 California Computer Products, Inc., 1966 Sept p 193 California Division of Fish and Game, 1949 Sept. p 20 California Highway Commission, 1970 Feb California Institute of Technology, 1949 May p 16, 19, 34, Aug. p 25, Nov p 28, Dec p 31, 1950 Sept p 48, Dec p 38, 1952 Feb p 43, Sept p 69, 1953 Sept p 69, 1956 Oct p 57, 1957 Apr p 84, 1958 Jan p 36, 68, Mar p 118, Apr p 109, June p 34, Oct p 42, 1959 Nov p 151, 1960 Jan p 50, May p 96, Nov p 184, 1962 Mar p 131, Apr p 63, June p 58, 84, July p 57, 84, 92, Aug p 40, Dec p 136, 1963 Jan p 42, 73, Mar p 64, July p 70, 84, Sept. p 135, Dec p 56, 60, 1964 Jan p 42, 43, 52, 108, Feb p 62, Apr p 50, May p 52, 68, 70, June p 43, July p 27, 41, 105, 46, Oct p 36, 60, Nov p 40, 47, 72, Dec p 71, 1965 June p 46, 47, 52, Aug. p 21 26, 27, 74, Nov p 30, 31, 35-37, 1966 Mar p 42, June p 31, 32, July p 50, Nov p 58, 1968 Aug. p 51, 53, 59, 1970 Nov p 44, 1971 Apr p 49, June p 65, 66, Nov p 53, 1976 Apr p 55, 1977 Feb p 112-114, Sept. p 224, 210, Oct. p 56 California Institute of Technology Jet Propulsion Laboratory, 1949 June p 26, 1961 July p 68, Oct p 67, 98, 1965 Aug p 42, 1966 Jan p 54 61, 67, Mar p 106, 42, 45, Apr p 56, 60, 65, 66, May p 62, 70, July p 50, 1968 Sept p 82, 1970 May p 27, 1973 Jan. p 49, 61, 1974 Mar p 45, 1975 Sept p 71, 72, Nov p 56, 1976 Oct p 75, 1977 July p 34 California Marine Life Program, 1974 Aug. p 21 California Medical Association, 1977 Jan. p. 43 California Public Outdoor Recreation Planning Committee, 1970 Feb p 91 California Research and Developii ent Company, 1954 Mar p 44 California Research Organization, 1965 July p 41, 42,

Californ a State Board of Education, 1970 May

```
p 55, 1971 Jan p 46, Mar p 17, 19, 20, 1973
    Feb p 47
  California State Department of Industrial
    Relations, 1966 Dec p 69
  California State Department of Public Health,
    1949 Sept p 20, 21, 1956 May p 62, 1964
    Jan p 26, 28, 30, 1965 May p 32
  California State Department of Water
    Resources, 1977 Jan p 46
  California State Legislature, 1977 July p 31
 California State Seismic Safety Commission,
    1977 Jan p 47
 California Supreme Court, 1969 Nov p 56
 Caligula, 1954 Nov p 102
 Callan, H G, 1961 Sept p 82, 125, 126
 Callan, Nicholas J, 1971 May p 80, 84
 Callaway, Joseph, 1967 Sept p 188
 Callen, Eric O, 1975 Jan p 100, 103, 108, 109
 Callendar, G S, 1959 July p 43
 Cal-Tex Oil Company, 1948 Sept p 14
 Calvin, John, 1958 June p 74, 1964 Feb p 117,
 Calvin, Melvin, 1948 Aug p 31, 32, 1951 Mar
   p 40, 1953 Feb p 37, Nov p 83, 1955 Oct
   p 42, 1957 Apr p 72, 1960 Nov p 108, 1961
   Sept p 68, Dec p 74, 1962 June p 92, 93,
   96, 100, Dec p 71, 1963 Aug p 52, 1965
   June p 58, July p 74, 1967 Jan p 37, Nov
   p 25, 28, 1969 July p 95, Dec p 70, 1970
   Aug p 73, 1972 Oct p 82, 85, 1973 Oct p
   82
 Calvolini, Filippo, 1972 Dec p 94
 Camac, Morton, 1972 Nov p 104
 Camacho, Juan A, 1960 Sept p 102, 1967 June
 Cambel, Halet, 1964 Dec p 62, 1970 Mar
  p 51
 Cambridge Electron Accelerator, 1973 Oct
  p 106, 107, 109-112, 1975 June p 57
 Cambridge Scientific Instrument Company,
   1972 Nov p 39
 Camella, J M, 1968 Oct p 30
Cameron, A G W, 1960 Nov p 184, 1963 Oct
  p 76, 1964 June p 38, 1965 May p 36, 37,
  1967 Aug p 32, 1969 July p 32, 36, 1971 Jan
  p 51, Mar p 46, 1974 Jan p 77, Feb p 56,
  Dec p 42, 1975 Feb p 30, Sept p 83, 138,
  1977 Dec p 86
Cameron, Charles S, 1948 Dec p 27, 1954
  Aug p 38
Cameron, G H, 1949 Mar p 30
Cameron, Louis M, 1960 June p 86
Cameron, R C, 1965 Apr p 114
Cameron, T W M, 1975 Jan p 103
Camhi, Jeffrey M, 1971 Aug p 74
Camichel, H, 1953 May p 68
Camin, Joseph H, 1966 Dec p 106, 107, 114,
Camisa, John M, 1977 Jan p 64
Camoens, Luiz Vaz de, 1969 Sept p 62
Camp, Charles L, 1960 May p 157
Campbell, Allen, 1976 Dec p 103
Campbell, Angus, 1967 Aug p 56
Campbell, Arthur A, 1968 Apr p 49, 1974
  Sept p 112
Campbell, Bernard G, 1964 Aug p 43, 1966
Nov p 48, 49, 53
Campbell, C T, 1971 Dec p 22
Campbell, Charles H, 1977 Dec p 92
Campbell, Charles I, 1956 Dec p 58
Campbell, Dan H , 1949 May p 19, 1964 Feb
Campbell, Donald P, 1952 Sept p 46
Campbell, Fergus W, 1962 Nov p 122, 126,
  1964 Dec p 54, 1972 June p 97, 1974 Nov
  p 106, 1976 Dec. p 45
Campbell, H A, 1951 Mar p 19
```

```
Campbell, John, 1975 Oct p 98
   Campbell, Joseph, 1953 Sept p 72, 1954 Aug
      p 36, Nov p 35, Dec p 52
   Campbell, Kate, 1955 Dec p 43, 1977 June
     p 103
   Campbell, Leon, 1957 Dec p 39
   Campbell, Lewis, 1955 June p 59
   Campbell, Norman B, 1956 Nov p 104
   Campbell, Richard, 1974 Dec p 49
   Campbell Soup Company, 1957 June p 94
   Campbell, W, 1972 Oct p 54
   Campbell, W W, 1950 Sept p 24, 1952 June
     D 28
   Campbell, Wallace H. 1962 Sept p 77
   Campenon, Bernard, 1958 July p 31
   Campos, Albizu, 1966 Oct p 25
   Camus, Albert, 1964 Feb p 117
   Canadian Agriculture Research Station, 1978
     Jan p 86
   Canadian Algonquin Radio Observatory, 1975
     May p 83
  Canadian Chemical and Cellulose Company,
     Ltd, 1957 Sept p 164
  Canadian Defence Research Board, 1957 Jan
    p 52, 1962 Sept p 81, 83
  Canadian Department of Agriculture, 1971 Feb
    p 91
  Canadian Department of Energy, Mines and
    Resources, 1971 Dec p 84, 1977 Aug p 63.
  Canadian Department of National Health and
    Welfare, 1949 Sept p 43
  Canadian Deuterium-Uranium System
    (CANDU), 1975 July p 45
  Canadian Dominion Observatory, 1970 Oct
  Canadian Fisheries Research Board, 1962 June
   p 134, 1965 Aug p 80, 84, 1970 Sept p 70,
    1975 Mar p 79
 Canadian General Electric, 1975 Oct p 24
 Canadian Geological Survey, 1949 May p 53,
 Canadian Institute on International Affairs,
   1966 Aug p 40
 Canadian International Development Research
   Center, 1974 Aug p 74, 75, 77, 80, 1976 Sept
 Canadian National Film Board, 1949 Sept
   p 43
 Canadian National Museum, 1966 June p 109,
   1970 June p 113, 1975 Apr p 71
 Canadian National Radio Observatory, 1977
   Aug p 32
 Canadian National Research Council, 1953
   June p 32, 1955 Jan p 58, Mar p 42, 40, 42,

    Sept p 54, 1962 Mar p 87, 1963 Nov

   p 133, 134, 1964 June p 86, 1965 May p 70,
   1966 Nov p 90, 1975 Oct p 22
Canadian Pulp and Paper Institute, 1967 Jan
  p 70
Canadian Royal College of Physicians and
  Surgeons, 1973 Sept p 95
Canales, Nemesio, 1966 Oct p 25
Candela, Fèlix, 1961 Nov p 152, 154
Candolle, Augustin de, 1949 Mar p 48
CANDU, see Canadian Deuterium-Uranium
  System
Canestrini, Giovanni, 1971 Feb p 101
Canfield, Ed, 1961 June p 156
Canfield, Robert E., 1966 Nov p 78, 87
Canizares, Claude R., 1977 Oct p 53
Cann, J R., 1968 May p 30
Cannon, Helen L., 1957 July p 46
Cannon, John R., 1955 Sept. p 76
Cannon, Thomas M , 1975 July p 48
Cannon, Walter B, 1948 Sept p 48, 1949 Dec
 p 16, 1950 Jan p 55, Feb p 44, May p 43,
```

```
Sept p 71, 1952 Dec p 63, 66, 1954 June
         p 78, 1955 Mar p 48, May p 74, 80, Oct p
         80, 101, 1956 Jan p 70, 71, Nov p 109, 110,
         1961 Apr p 56, 1972 Feb p 90, 1974 June
      Cantell, Karı, 1977 Apr p 49
      Cantor, Charles R., 1976 Oct p 46
      Cantor, David G, 1978 June p 117, 124
      Cantor, Georg, 1952 Nov p 76-78, 1954 Apr
        p 87, 1956 June p 74, 1958 Sept p 69, 71
        73, 1962 Apr p 92-94, 1964 Jan p 56, Sept
        p 46, 48, 55, 56, 1967 Dec p 104-106, 111
        116, 1971 Mar p 51, 53, 58, Aug p 93, 97,
     Cantor, Harvey, 1976 May p 34
     Cantril, Hadley, 1950 Sept p 23, 84, 1954 Mar
       p 39, 1959 Apr p 56
     Cantwell, R F, 1949 Sept p 26
     Canutulachama, 1960 Nov p 166
     Capablanca, Jose, 1958 June p 105, 1962 Dec
       p 110
     Capaldi, Roderick A., 1975 Oct. p. 32
     Cape Haze Marine Laboratory, 1962 July p 66
     Capecchi, Mario, 1968 Jan p 38
     Capindale, John B, 1960 Nov p 105
    Capra, Donald, 1977 Oct p 101
    Capra, Frank, 1949 May p 14, 1958 Apr p 64
    Capra, J Donald, 1977 Jan p 50, 52
    Capron, William M, 1970 Feb p 44
    Caracalla, Emperor, 1961 June p 130, 1974
      Dec p 121, 122, 124, 125, 127
    Caraffa, Giovanni P, 1957 Mar p 121
    Carandini, A., 1978 Jan p 111
    Carayon, J., 1956 Nov p 124
    Carbide and Carbon Chemicals Corporation,
      1949 July p 41, 1955 July p 65, 66
   Carbone, Richard, 1974 Dec p 23
   Carborundum Company, 1965 Mar p 56
   Cardano, Girolamo, 1964 Sept p 45, 52
   Cardarelli, Nathan F, 1968 Aug p 46
   Cardenas, 1966 Oct p 25
   Cardi, Beatrice de, 1967 May p 60, 1971 June
     p 102
   Cardinal, C U, 1970 Dec p 41, 1978 June
   Cardwell, William, 1973 July p 33
  Careri, Gemelli, 1959 Aug p 52, 54, 1964 Dec
    p 116
  Carey, Dwight L, 1977 Feb p 56
  Carey, Francis G, 1973 Feb p 36
  Carey, Frank, 1948 Oct p 25, 1964 Mar p 36
  Carey, Niall, 1951 Dec p 42, 1956 Mar p 34
  Carey, S W, 1966 Oct p 30, 1968 Apr p 54
 Carey, William D, 1976 Nov p 66
 Carl, Marion E, 1953 Oct p 40
 Carl Zeiss, Inc., 1978 Apr p 64, 65
 Carlbom, L., 1956 Aug p 54
 Carlemalm, E, 1971 Mar p 28
 Carleton Mark, 1953 July p 57
 Carleton, Nathaniel P, 1971 Jan p 51, 1974
   May p 112, 115, 1975 Sept p 73
 Carlile, Richard 1972 Feb p 96
 Carlisle, Anthony, 1960 June p 108 1965 Jan
  p 89
 Carlisle, David B 1956 Apr p 66
Carlisle, Edith M 1972 July p 60
Carlitz, Robert D., 1974 May p 117
Carlo, James 1949 July p 44
Carlsen E. N 1965 June p 40
Carlsmith, J Merrill 1962 Oct p 96 1972 May
  p 52
Carlson, Anton J 1948 Nov p 24 1949 Jan
  p 29, Sept p 26 1956 Nov p 109 110
Carlson, Bruce M., 1977 July p 73
Carlson, Chester, 1972 Mar p 50 1977 May
```

Carlson, David E., 1977 May p 42 Carlson, Francis D, 1961 Sept p 204 Carlson, J Gordon, 1961 Sept p 108 Carlson, R. O, 1963 July p 38 Carlson, Robert M, 1968 July p 50 Carlsson, Arvid, 1974 June p 65, 71, 1977 Aug p 112 Carlton, Bruce C, 1967 May p 91, 92 Carlyle, Thomas, 1963 Nov p 39 Carman, Harry J , 1952 Aug p 38 Carmichael, Bruce, 1954 Aug p 77 Carmichael, Stokely, 1971 Dec p 13 Carmon, A., 1975 Oct p 104 Carmona, Alfredo, 1969 Apr p 50, 1970 Jan p 32, 36 Carnahan, J E., 1962 Oct p 60, 1974 Oct Carnahan, Judith, 1967 Dec p 19 Carnap, Rudolf, 1952 Nov p 76, 1965 Oct p 46, 1973 May p 83 Carnegie, Andrew, 1952 Jan p 45 Carnegie Corporation, 1953 May p 46, 1954 May p 31, Sept p 70, 1955 Aug p 48, 1956 June p 56, Aug p 50, 1957 Jan p 38, 1958 May p 69 Carnegie Foundation, 1949 Sept p 14, 1951 July p 15, 1966 Aug. p 40, 1973 Sept p 140 Carnegie Institute of Technology, 1955 July p 62, 1958 July p 50, 1960 Aug. p 60, 1962 Dec p 110, 1963 Jan p 41, 1966 Sept p 247 Carnegie Institution, 1955 Sept p 127, 1956 Mar p 88, Oct p 56, 57, 1958 Apr p 43, 1964 Apr p 66, 114, May p 56, July p 36, 37, Aug p 63, 1965 Dec p 77, 1969 Apr p 33, 1971 Dec p 84, 1975 Oct p 73 Carnegie Institution of Washington, 1948 Nov p 24, 1950 Mar p 53, 1952 Feb p 43, July p 70, 71, 1953 Oct p 31, 32, 33, 1955 May p 84, 85, 1956 July p 83, 86, 90, 1960 Jan p 126, 1965 July p 80, 1968 Sept p 115, 1973 June p 33, Aug. p 61, Oct. p 80 Carneiro, Paulo, 1948 May p 11 Carnel, Alexis, 1967 Nov p 26 Camot, L. N M, 1964 Sept p 65 Carnot, Nicolas L. S., 1948 July p 52, 1951 May p 54, 55, 1954 Sept p 60, 61, 99, 123, 1955 Jan. p 83, 1968 Jan p 117, 119-121, 1969 Apr p 106, Aug. p 108, 110-117 Caro, Lucien G , 1969 Feb p 103, 1975 Oct p 31 Caroline Matilda, Queen of Denmark, 1969 July p 42 46 Caroline of Brunswick, 1969 July p 43 Carothers, J. C., 1957 Aug. p. 104 Carothers, Wallace H., 1957 Sept. p 88 99, 1974 Dec p 60 Carp, Richard S., 1976 May p. 53 Carpco Corporation, 1968 Jan p 33 Carpenter C J Charles, 1971 Aug p 18, 19 Carpenter, C R., 1954 May p 79, 1960 Sept. p 96 Carpenter Frank M. 1967 Oct p 62 Carpenter, Martha S., 1958 Jan p 46 Carpenter Roland L. 1959 Aug p 111, 1965 Dec p 40, 1965 July p 34 Carpio Mibuel, 1973 Sept p 46 Carr, A F Jr 1959 Jan p 114 Carr, Bill 1977 May p 109 Carr Harvey 1903 Oct p 116 Carr Michael 1964 Dec. p 46, 1973 Jan p 55, 1775 Mar p 51 Carr. It cass D. 1955 June p. 46, 1964 July p 34 Carra za Venustiano 1966 Oct. p. 25 Carel Aleus, 1-45 lu ep 41 1/4) Dec p 14 1966 Oct p 52 1769 Oct p 57 1761 Apr

p 93, 1968 Mar p 32, 1969 June p 49 Carrick, Robert, 1964 Aug p 74 Carrier Corporation, 1957 Mar p 45, 1962 Dec p 43 Carner, William L, 1967 Feb p 39 Carriger, Barbara K., 1959 Apr p 67 Carrington, John F, 1971 Dec. p 90 Carrington, Richard C, 1955 Feb p 40-42, 1968 Jan p 108, 1975 Apr p 106, Sept. Carroll, Burt H, 1961 Nov p 120 Carroll, Charles, 1976 July p 123 Carroll, Edward J , 1977 Nov p 132, 134, 135 Carroll, Lewis, see Dodgson, Charles L. Carroll, Robert L, 1967 Sept p 104 Carroll, Rovert B, 1961 Oct. p 66 Carruthers, George R., 1971 Dec p 25 Carson, Kit, 1967 Jan p 47 Carson, Rachel, 1951 Feb p 30, 1963 July p 64, 1967 July p 15 Carson, Robert K., 1970 Feb p 46 Carson, Timothy J, 1971 Oct p 44 Carswell, Elizabeth A, 1977 May p 73 Carswell, R. F, 1973 June p 38 Carswell, Robert, Sir, 1970 July p 40 Cartan, Henri, 1957 May p 94 Cartaud, Jean, 1977 Feb p 113 Carter, Anne P, 1966 Apr p 25, 1967 Sept p 261, 1976 Sept p 123 Carter, Brandon, 1972 May p 45, 46, 1974 Dec p 35, 1977 Jan p 36 Carter, F Bayard, 1951 Apr p 35 Carter, George F, 1953 Mar p 54, 1956 Apr p 68 Carter, Helene, 1949 Dec p 55 Carter, Howard, 1978 Mar p 74 Carter, James, 1976 June p 22, 23 Carter, Jeanette S, 1956 Nov p 132 Carter, Jimmy, 1976 Oct p 57, 1977 Mar p 61, Apr p 52, June p 54, July p 56, Aug. p 24, 28, 52, Nov p 43, 45, 49-51, 1978 Feb p 76, Mar p 69 Carter, Joseph C, 1966 Jan p 49, 1968 Dec p 40 Carter, N L, 1965 Oct. p 33 Carter, Neville L, 1978 Apr p 128 Carter, William A, 1977 Apr p 44, 49 Cartier, Jacques, 1948 Nov p 20, 1952 Jan Cartier, M., 1972 Aug p 83 Cartter, Allan M, 1977 May p 50 Cartwright, George E., 1968 May p 105 Caruso, Enrico, 1975 July p 48 Carver, George W , 1949 Dec p 56 Carver, T R., 1966 July p 74 Cary Elizabeth, 1949 July p 50 Casals, Jordi, 1955 Mar p 67, 68 Case, Chifford P., 1976 Nov p 27 Case Institute of Technology, 1958 July p 50, 1964 Feb p 56, Nov p 111, 114, Dec p 96, 1966 Feb p 41, 44 46, 1967 Nov p 27 Case, James D., 1961 July p. 104 Case, James F., 1976 May p. 74, 76, 83, 84 Case, Kenneth, 1968 Jan p 81 Case Western Reserve School of Medicine, 1973 Sept p 146 Casey, Richard G 1971 Apr p 56 Casey, William J. 1971 Mar. p. 44 Cash Richard A, 1971 Aug. p. 18 Casimir H B G, 1956 Mar p 96, 1960 July p 49 52, 53, 1962 Apr p 114, Dec. p 97, 1965 Mar p 48 Casimir-Jonker, J. M., 1961 Jul. p. 125 Caskey C Thomas 1967 Apr p 48 Casley Smith, J. R., 1963 June p. 55 Casten William 1969 May p. 62. Caspar Denald L D, 1963 Jan p 53 1966

Dec p 34, 36, 1975 Nov p 39 Caspari, Ernst, 1950 June p 18 Caspary, R., 1973 May p 51 Casper, Donald L. D, 1978 May p 150 Caspersson, Torbjorn, 1950 Sept. p 57, 1953 Feb p 54, 1958 Mar p 120, May p 40, 1960 Jan. p 128, 134, 1961 Sept. p 57, 78, 1974 July p 38 Cassell, Enc J, 1965 Sept. p 186 Cassen, Patrick, 1971 Aug. p 70 Casserio, Giulio, 1971 June p 95 Cassidy, William A., 1965 Nov p 50 Cassie, A B D, 1951 July p 44 Cassini, Giovanni D, 1968, Feb p 76, 1975 Sept. p 120, 122, 1977 May p 81, 82 Cassini, Jacques, 1967 Oct p 70 Cassini, Jean Dominique, 1960 July p 54, 56, 63, 1964 Mar p 107, 1970 May p 27 Cassinis, G, 1955 Sept p 167 Cassirer, Ernst, 1957 June p 150 Castagnoli, C, 1956 June p 41 Castaldi, R., 1973 Nov p 42. Castellano, Joseph A., 1970 Apr p 101 Castellanos, Juan de, 1967 July p 96 Castelli, Benedetto, 1975 Mar p 102 Castellucci, Vincent, 1970 July p 64 Castelnaud, Michel de, 1973 Apr p 86 Caster, WO, 1959 June p 76 Castiglioni, Arturo, 1964 Feb p 121 Castillo, Jose del, 1975 Oct p 32 Castle, Hempstead, 1963 Feb p 128 Castle, Irene, 1950 Feb p 27 Castle, John E., 1974 Oct p 69 Castle, W E., 1960 May p 120, 128 Castles, M P, 1964 July p 38 Castor, John I, 1978 Jan p 81 Castro, Baldonoty de, 1966 Oct p 25 Castro, Fidel, 1963 Feb p 45, 1966 Oct p 23 Castro, Nicolo di, 1957 Mar p 126 Caswell, James L., 1976 June p 105 Cathcart, Edward R., 1965 May p 88, 1971 Oct p 102 Catherine The Great, 1972 Feb p 97, 1976 Jan p 116 Catholic University of Louvain, 1963 May p 64, 67, 70-72, Oct. p 46, Nov p 116, 1977 Apr Catlin, George, 1955 June p 60 Catling, H W, 1972 Oct. p 39 Cato the Elder, 1949 June p 42, 1954 Nov p 98, 1978 Jan p 111 Caton, Richard, 1959 Aug p 89, 1962 June p 142 Catron, Damon, 1952 Apr p 54 Cattanach, Bruce M., 1974 May p. 53 Cattell, J McKeen, 1958 Oct p 37, 43, 1974 Dec p 24 Cauchy, Augustin, 1948 June p 57, 1954 Apr p 87, 1964 Sept p 113, 134, 1977 July p 126, Caus, Salamon de, 1964 Jan p 100 Causey, Ottis R., 1955 Mar p 64, 65 Cauwenberge, H van, 1951 Nov p 34 Cava, Michael P., 1954 Dec. p. 58 Cavalien, Bonaventura, 1975 Mar p. 102. Cavalieri, Liebe F 1972 Jan p 31 Cavalli-Sforza, Luigi L., 1956 July p. 116, 1967 July p 110, 1970 Oct p 19, 1974 Sept p 31. Cavallo, Tito 1976 May p 61 Cavasinni, V., 1973 Nov p. 42. Cavendish Henry, 1948 Aug. p. 1950 Feb p 41, 1955 June p 70, 1956 May p 55, 1960 Oct p 117, 1961 Mar p 95 97, 1964 May p 66, 1972 May p 36, 1973 May p 75, 1976 Mas p 50 91, 94-96 Caverdish, Thomas, 1409 Sept. p. 60

Cavers, David F, 1957 Sept p 107, 1958 Dec p 53 Cavins, John, 1977 Feb p 85 Cawley, John, 1964 Jan p 101 Cayley, Arthur, 1954 May p 86, 1955 Jan p 86, 1964 Sept p 54, 1977 Oct p 108 Cayley, George, Sir, 1955 Jan p 37, 1977 Aug p 98 Caywood, Thomas E, 1971 Nov p 48 CBS, see Columbia Broadcasting System Cebra, John J, 1976 Mar p 115 Cecil, David, Lord, 1977 Dec p 88 Cecil, W, 1948 July p 52 Cedarholm, J P, 1958 Dec p 50, 1960 Mar Cederbaum, Arthur I, 1976 Mar p 32 Cefola, M, 1954 Feb p 76 Ceglowski, M J, 1958 Oct p 56 Ceglowski, Walter, 1973 Jan p 31 Celanese Corporation of America, 1957 Sept p 166, 1964 Sept p 188, 1975 Dec p 98, 101, 105 Celebrezze, Anthony J, 1962 Sept p 98 Celler, Emanuel, 1965 Nov p 25 Cellini, Benvenuto, 1966 Apr p 73 Celsino, Numerius P, 1958 Apr p 71 Celsius, Anders, 1949 May p 26, June p 31, 1968 June p 54 Celsus, Aulus C, 1973 Oct p 40 Censorinus, 1949 Nov p 49 Center for Advanced Study in Behavioral Sciences, 1953 Mar p 44 Center for Defense Information, 1975 Apr p 53, May p 42, 1976 Oct p 57 Center for Naval Analyses, 1972 Aug p 44 Center for the Analysis of Public Issues, 1971 Oct p 28 Centerwall, Willard R., 1974 Apr p 51 Centifanto, Ysolina M, 1973 Oct. p 33 Central African Institute for Scientific Research, 1948 Oct p 24 Central America and Panama Institute of Nutrition, 1963 Sept p 77, 79 Central Bureau for Astronomical Telegrams, 1976 Dec p 90 Central Institute for the Deaf, 1970 Dec p 34 Central Maine General Hospital (Lewiston), 1948 Oct p 9, 12, 13 Centre Oceanologique de Bretagne, 1977 Apr p 32 Cenwalh, King of Wessex, 1974 May p 35 Ceppellini, Ruggiero, 1957 Mar p 124, 1972 Junep 29 Cerami, Anthony, 1975 Apr p 45 Ceraso, John, 1971 Aug p 90 Ceraso, Joseph M, 1977 July p 104 Cerenkov, Pavel A, 1949 Nov p 27, 1951 Oct p 54, 55, 1956 June p 40, 1958 Dec p 52, 1967 Nov p 28, 1970 Feb p 72, 73 CERN, see European Organization for Nuclear Research Cerny, Joseph, 1970 Dec p 41, 1978 June p 60, 66, 67 Cerretelli, Paolo, 1972 Mar p 88 Cerri, C, 1973 Nov p 42 Cerro Tololo InterAmerican Observatory, 1971 Feb p 30, 31, Dec p 20, 27, 28, 1977 Oct p 43, 55 Cervantes Saavedra, Miguel de, 1952 Aug. p 60, 1953 Sept p 52, 1970 Aug p 97 Cesalpino, Andrea, 1965 June p 112, 1977 May p 96 Cesarsky, Diego A., 1974 May p. 110, 111, 113 Cesler, Walker L. 1953 June p 43 Cessac, Gerald L, 1969 Sept p 90 Cezanne, Paul, 1956 May p 66 Chadderton, Lewis T. 1968 Mar p 93

Chadwick, James, 1948 June p 27, 28, 1949 Nov p 41, 43, 1950 Apr p 44, Sept p 30, 1951 Oct p 46, 49, 1952 Jan p 23, 1958 Feb p 77, Aug p 29, 1960 Mar p 100, 1964 Mar p 80, 1967 Nov p 27, 1975 Sept p 45 Chadwick, John, 1954 May p 73, 1969 Nov p 62 Chafe, William H, 1974 Sept p 139 Chaffee, J G, 1961 Oct p 97 Chaffee, Rowland C, 1961 Sept p 115 Chagas, Carlos, 1960 Oct p 119 Chagla, Mahomedalı C, 1975 Apr p 22 Chagnon, Napoleon O, 1968 June p 45 Chaikoff, Israel L, 1951 Sept p 52, 1971 June Chain, Ernst B, 1949 Aug p 28, Dec p 17, 1952 Mar p 35, 1961 Mar p 70, 1965 Sept p 82, 1966 Nov p 88, 1967 Nov p 27, 1973 Sept p 106 Chakravarty, Birendra N, 1975 Apr p 22 Chalatow, S, 1966 Aug p 53 Chalazonitis, N , 1963 July p 130 Chalfont, Lord, 1966 Aug p 40 Chalk River Laboratory, 1960 Nov p 184 Chalkley, G Roger, 1975 Feb p 49 Chalkley, H W, 1957 Dec p 122 Challis, James, 1966 Sept p 164 Chalmers, Bruce, 1965 Jan p 39, 1967 Feb p 86, 88, 1976 Oct p 34 Chalmers, T A, 1950 Mar p 44 Chaloner, William, 1958 Sept p 96 Chamalaun, F H, 1967 Feb p 51, 52 Chamberlain, Joseph W, 1961 June p 114 Chamberlain, Owen, 1955 Dec p 47, 1956 June p 38, 41, 1959 Dec p 78, 1960 Mar p 108, 1963 Mar p 74, 1966 July p 77, 1967 Nov p 25, 28, 1978 Feb p 76 Chamberlain, P C, 1970 Sept p 183 Chamberlain, T J, 1967 June p 116 Chamberlin, T C, 1948 May p 44, 1952 Oct p 55, 1972 June p 57, 59 Chambers, Edward L, 1977 Nov p 134-136 Chambers, Leslie A, 1955 Jan p 76, 1961 Oct Chambers, Robert, 1950 Oct p 49, 1952 Dec p 62, 1956 Feb p 65, 67, 1959 Feb, p 70, 75, Aug p 98 Chambers, Whittaker, 1950 Mar p 29 Chambliss, O L, 1967 June p 110 Chambon, P, 1978 Feb p 76, 80 Chamie, C, 1956 May p 41 Champagnat, Alfred, 1965 Jan p 49, Nov Champe, S., 1963 Jan p 55 Champion, Ronald, 1972 June p 112 Champolion, Jean F, 1958 June p 61 Chan, Shung K., 1969 July p 87 Chan, Stephen W, 1973 Feb p 60 Chanaud, Robert C, 1970 Jan p 40 Chan-bahlum, 1978 May p 96 Chance, Britton, 1958 July p 62, 1959 Aug. p 121, 1966 July p 86, 1967 Oct p 50, 1968 Feb p 35, 1969 May p 30 Chandler, Francis W, 1978 Feb p 84 Chandler, Knox, 1966 Mar p 81, 82 Chandler, Paul A, 1977 June p 100 Chandler, S. C., 1971 Dec. p. 81-83, 86, 88 Chandler, T J, 1967 Aug. p 21, 22, 23 Chandragupta, 1966 Feb p 106, 1968 Oct p 114 Chandrasekhar, Subrahmanyan 1954 Sept. p 136, 1963 Jan p 74, 1965 June p 46, 1968 June p 36, 1971 Feb p 26, 1972 May p 38, 1975 Sept p 44, 1976 July p 106, 1977 Oct p 47 Chang, Annie C Y, 1975 July p 25 28 29, 31, 32

Chang, C C, 1962 July p 78 Chang, H L, 1964 Jan p 81 Chang, Hai Wong, 1977 Feb p 116 Chang, Jen-hu, 1971 Sept p 94, 97 Chang, Kwang-chih, 1972 Apr p 37, 40 Chang, M C, 1951 Mar p 45, 46, 47, 1966 Aug p 80 Chang, T H P, 1972 Nov p 39 Chang, Ying-Ying, 1969 June p 83, 84 Changeux, Jean-Pierre, 1964 Nov p 76, 1969 May p 40, 1970 June p 36, 1973 Apr p 26, Oct p 61, 1977 Feb p 111-113 Changnon, Stanley A Jr, 1968 Apr p 49 Chanlatte, L., 1969 Nov p 46 Chanock, Robert M, 1960 Dec p 91, 1962 Mar p 118 Chant, C A, 1964 Feb p 54 Chantre, Ernest, 1963 Feb p 97 Chantrenne, Henri, 1953 Sept. p. 105, 1976 Aug. Chao, Edward C T, 1960 Sept p 104, 1961 Feb p 67, June p 88, Aug p 51, 54, 56, 57, Nov p 60, 1964 Feb p 51, 55, 1965 Oct Chapanis, Alphonse, 1952 May p 64, 1953 Apr p 74, 80, 81, 1975 Mar p 36 Chapell, J Brian, 1964 Jan p 73 Chaperon, E. A., 1974 Nov p 63 Chapeville, François, 1962 Sept p 103, 1963 Mar p 91 Chaplin, Charlie, 1956 Feb p 35, 1977 Sept p 187 Chapman, Clark R., 1968 Feb p 82, 1973 Mar p 32, 1975 Sept p 144, 146, 1977 Jan p 94 Chapman, David S, 1977 Aug p 60 Chapman, Dean R, 1961 Nov p 63, 1964 Feb p 51-53, 56, 57, 1971 Nov p 50 Chapman, Douglas G, 1966 Aug p 17 Chapman, Frank M., 1957 July p 120, 1963 Aug p 43 Chapman, George B, 1961 Sept p 57, 59 Chapman, H H, 1961 Apr p 153 Chapman, Janet, 1968 Dec p 22 Chapman, Oscar L, 1952 Feb p 18 Chapman, Seville, 1969 Jan p 50 Chapman, Sydney, 1954 Apr p 45, 1955 Feb p 41, 1957 Apr p 138, Oct p 58, 1958 Oct p 47, 1959 Mar p 39, June p 59, 1960 July p 54, 63, 1962 Dec p 51, 1963 June p 53 1964 Apr p 66, 69, 70, 1965 Mar p 58 61 65, 1966 Mar p 104-108 110, 1968 Nov p 90, 1975 Sept p 161 Chapman Andresen, Cicily 1961 Apr p 122 Sept p 176 178 Chapman, Gabriel 1973 Sept p 50 Chaponun, Pere, 1952 Jan p 67 Chappe, Claude 1972 Sept p 99, 1977 Aug. Chappell J B, 1972 Feb p 34, 1975 Jan p 92. Chappelow, Allan, 1952 May p 31 Charcot, Jean M 1955 Nov p 31 1964 Apr p 32, 1970 July p 40 46 Chardin Pierre T de 1953 Dec p 70 Chargaff, Erwin 1954 Oct p 55 58 1962 Feb p 42, 1972 Dec p 86 88 89 1977 July p 28 Charity Hospital, 1977 June p 103 Charles David 1975 Feb p 40 Charles, Duke of Brunswick 1969 July p 43 Charles E. Frosst and Company of Canada 1953 Aug. p. 48 Charles F Kettering Research Laboratory 1977 Mar p 72 Charles I King of England, 1952 June p 57 57 1953 Oct p 54, 1959 Jan p 54 June p 90 1967 May p 67 69 72, 1967 July p 42 1970 Oct p 114 1971 Sept p 52

Charles II, King of England, 1951 Feb. p. 60; 1953 June p. 25, 31; 1965 Sept. p. 153; 1967 June p. 19; 1969 July p. 42; Sept. p. 61; 1971 May p. 15. Charles III, King of France, 1967 May p. 75. Charles IX, 1956 Jan. p. 92. Charles, J. A., 1967 Apr. p. 52. Charles, J. A. C., 1951 Dec. p. 68. Charles Pfizer and Company, Inc., 1950 July p. 29; 1952 Oct. p. 48; 1953 Apr. p. 30; 1955 Aug. p. 49; 1968 July p. 103. Charles, Philip A., 1975 Dec. p. 38; 1978 Jan. Charles Stark Draper Laboratory, Inc., 1974 Sept. p. 74; 1978 Feb. p. 62, 63. Charles the Bold, King, 1967 May p. 72. Charles V, Emperor, 1948 May p. 25, 30; 1955 Jan. p. 74; 1956 Jan. p. 91. Charlesby, A., 1954 Aug. p. 40; 1957 Sept. p. 149; 1959 Sept. p. 78. Charlier, C. C., 1977 Nov. p. 90. Charlier, C. V. L., 1954 Mar. p. 55, 56, 58; July p. 35. Charlotte, Princess, 1965 Aug. p. 91; 1969 July p. 42, 46. Charlwood, Peter, 1963 Oct. p. 46. Charney, Evan, 1971 Feb. p. 23. Charney, Jule G., 1952 Aug. p. 38; 1955 Aug. p. 42; 1956 Dec. p. 44; 1970 Jan. p. 116. Charnley, John, 1978 Jan. p. 44, 46. Charoenwongza, Pisit, 1976 Sept. p. 70. Charpak, G., 1961 Mar. p. 80; July p. 54. Charpie, Robert A., 1955 July p. 50. Charter, S., 1967 Sept. p. 93. Charters, A. C., 1960 Oct. p. 140. Chase Aircraft Company, 1950 Jan. p. 26. Chase, Arnold B., 1952 Aug. p. 25, 27. Chase, L. R., 1970 Oct. p. 48. Chase, Martha, 1953 May p. 37; 1954 Dec. p. 64, 65; 1956 Oct. p. 88; 1961 June p. 97; 1969 Dec. p. 49; 1972 Dec. p. 86. Chase, Merrill W., 1949 July p. 18; 1974 Nov. p. 59. Chase, Norman, 1949 June p. 49. Chase, Peter P., 1951 June p. 38. Chase, Sherret, 1951 Aug. p. 44. Chasles, Michael, 1955 Jan. p. 83. Chaso, E. C. T., 1962 Feb. p. 78, 81. Chasseloup-Laubat, Comte de, 1972 May p. 109. Chatin, A., 1959 Jan. p. 98. Chatterjee, I. B., 1976 Sept. p. 51. Chaucer, Geoffrey, 1948 Sept. p. 25; 1952 Apr. p. 83; Oct. p. 72; Dec. p. 30; 1955 Aug. p. 68, 78; 1967 Dec. p. 97; 1974 Jan. p. 104, 106. Chaudhari, Praveen, 1978 Apr. p. 86, 87. Chaudron, Georges, 1967 Dec. p. 67. Chauveau, Auguste, 1956 May p. 120. Chavaillon, Jean, 1978 Apr. p. 99. Chayes, Abram, 1969 Aug. p. 23. Cheadle, Edward, 1977 Sept. p. 232. Chebyshev, P. L., 1964 Sept. p. 95. Check, Maru, 1956 Aug. p. 63. Chedid, Louis, 1964 Mar. p. 44. Cheeseman, Leonard E., 1968 Sept. p. 124. Chein, Isador, 1974 Dec. p. 26. Chekhov, Anton, 1949 Oct. p. 31; 1974 Nov. p. 54. Chellaswami, T., 1954 Jan. p. 40. Chemical Abstracts Service, 1966 Sept. p. 224, Chemical Construction Corporation, 1952 June p. 32; 1953 May p. 33-35. Chemically Prestressed Concrete Corp., 1964 Chemie Grunenthal, 1955 Dec. p. 50; 1962 Aug. p. 30, 31, 33.

Chemstrand Research Centre, 1963 May p. 58; 1965 Aug. p. 76. Chen, F. S., 1968 June p. 19. Chen, Francis F., 1971 Feb. p. 54; 1972 July Chen, K. K., 1959 Nov. p. 78, 79. Chen, Lincoln, 1971 Aug. p. 21. Chen, Pi-chao, 1973 Nov. p. 50. Ch'en, Shun, 1973 Feb. p. 51. Chen, Susie, 1974 July p. 42. Chen, T. R., 1974 July p. 40. Cheng, Chu-yuan, 1966 Nov. p. 41. Cheng, Hung, 1973 Nov. p. 44. Cheng, K.-J., 1978 Jan. p. 86. Cheng, Lanna, 1978 Apr. p. 134. Cheng, Roger V., 1972 Mar. p. 56. Cheng, T. P., 1977 May p. 56. Cheops, see: Khufu. Chernick, S. S., 1951 Sept. p. 52. Chernysh, A. P., 1974 June p. 101. Cherry, Colin A., 1962 Apr. p. 147; 1970 Dec. p. 35. Cherry, John, 1975 May p. 45. Cherry, Ruth, 1952 Feb. p. 31. Chesley, Gilman D., 1972 Mar. p. 43. Chesley, Paul, 1950 June p. 17. Chess, James R., 1972 July p. 96. Chess, Stella, 1970 Apr. p. 97; Aug. p. 102; 1972 Dec. p. 42. Chesselet, Roger, 1974 May p. 67. Chester Beatty Research Institute, 1962 Nov. p. 54; 1964 July p. 66; 1965 June p. 41, 45; 1977 May p. 76. Chester, C. V., 1971 June p. 31. Chester, K., 1952 Apr. p. 19. Chester, P. F., 1971 Apr. p. 88. Chesterfield, Lord, 1958 June p. 74. Chesterton, G. K., 1972 Jan. p. 94, 102. Chestnut Lodge Sanitarium, 1962 Aug. p. 71. Chetverikov, S. S., 1950 Jan. p. 33. Cheung, Albert C., 1969 Feb. p. 42; Apr. p. 50; 1973 Mar. p. 53. Chevalier, A., 1948 Oct. p. 25. Chevalier, Charles L., 1976 Aug. p. 72. Chevalier, Roger A., 1976 Dec. p. 93, 100; 1978 Jan. p. 81. Chevallier, Claude, 1957 May p. 94. Chew, Geoffrey F., 1962 Feb. p. 74; Nov. p. 70; 1963 Jan. p. 44, 45; 1964 Jan. p. 54; Feb. p. 93; Apr. p. 60; July p. 44; Sept. p. 130; Oct. p. 36; 1965 Mar. p. 52; 1967 May p. 134; Dec. p. 90; 1969 Mar. p. 48; 1975 Feb. p. 63; Oct. p. 40. Chew, William T., 1964 June p. 55. Chhina, G. S., 1972 Feb. p. 85. Chian, Pharoah, 1968 Mar. p. 46. Chiang, Kwen-sheng, 1970 Nov. p. 28. Chiao, Raymond Y., 1964 Aug. p. 40; 1968 Sept. p. 124, 132. Chiarelli, James J., 1963 Nov. p. 91. Chiarugi, Vincenzo, 1973 Sept. p. 119. Chicago Housing Authority, 1965 Sept. p. 196. Chicago Lincoln Park Zoo, 1955 Dec. p. 56. Chicago Medical Society, 1952 Jan. p. 40; 1953 Sept. p. 73-73. Chicago Natural History Museum, 1963 Aug. p. 43. Chicago Urban League, 1965 Aug. p. 14. Chieffi, Giovanni, 1963 Nov. p. 114. Chikovani, G. E., 1967 Oct. p. 41, 45. Child, Frank, 1974 Oct. p. 46. Childe, V. Gordon, 1960 Sept. p. 148; 1965 Sept. p. 59; 1971 Oct. p. 64-67, 70; 1973 Oct. p. 41, 42. Childeric I, King, 1951 Apr. p. 25. Childerley, S., 1967 Sept. p. 93. Children's Cancer Research Foundation, 1957

Sept. p. 174; 1962 July p. 45; 1966 Apr. p. 109; Dec. p. 34, 36; 1969 Apr. p. 33. Children's Defense Fund, 1974 May p. 60. Childs, Barton, 1963 Nov. p. 72; 1977 Feb. p. 82. Childs, H. C., 1948 June p. 27. Chilton, J. P., 1967 Feb. p. 88. Chilton, Thomas H., 1956 May p. 54. Chim, H. D., 1965 Feb. p. 57. Chi-Ming, Chu, 1977 Dec. p. 94. Chin, Chao-Wen, 1976 Feb. p. 50. Chin-Chance, Selvin, 1978 Jan. p. 129. Chingis, Khan, see: Genghis Khan. Chinitz, Benjamin, 1965 Sept. p. 202. Chinnery, M. A., 1971 Dec. p. 87. Chinowsky, William, 1975 June p. 54, 56. Chirikov, Aleksei, 1958 Nov. p. 115; 1961 May p. 89. Chisholm, G. Brock, 1957 Sept. p. 107; 1958 Dec. p. 53. Chisholm, J. H., 1957 Jan. p. 48. Chisholm, Jack, 1954 Dec. p. 50. Chisolm, J. Julian Jr., 1969 May p. 54; 1971 Feb. p. 15. Chistyakov, I. G., 1964 Aug. p. 77. Chittenden, Gertrude E., 1967 Mar. p. 80. Chitty, Dennis, 1955 Oct. p. 92; 1967 Jan. p. 81; 1974 June p. 40, 42, 43, 46. Chiu, Hong-Yee, 1964 June p. 38, 40, 41; 1971 Feb. p. 31. Chladni, Ernst, 1948 July p. 36; 1975 Jan. p. 24. Chleck, D. J., 1959 Aug. p. 68. Chmutov, K. V., 1970 Nov. p. 71. Chollet, R., 1974 Dec. p. 70. Cholnoky, L., 1951 Mar. p. 38. Chomsky, Noam, 1970 Feb. p. 44; 1972 Sept. p. 32, 34-36, 50, 78; 1973 Dec. p. 113; 1977 Feb. p. 101. Chope, Harold D., 1956 Apr. p. 64. Chopin, Frederic, 1949 Oct. p. 31; 1959 Dec. p. 111; 1972 Dec. p. 91, 92. Choppin, G. R., 1956 Dec. p. 67. Chopra, G. S., 1969 Dec. p. 22, 24, 25. Chopra, R. N., 1969 Dec. p. 22, 24, 25. Chopra, S. R. K., 1968 Aug. p. 45. Chou, Tou-Wei, 1977 Dec. p. 138. Chou, Y. R., 1963 June p. 127. Chou-En-lai, 1966 July p. 48; 1975 May p. 20. Chovitz, Bernard, 1956 July p. 50. Chow, Kao Lang, 1955 Feb. p. 72. Chown, Bruce, 1968 Nov. p. 52. Chrambach, Andreas, 1972 June p. 33. Chrisman, Nicholas, 1974 Sept. p. 35. Christ Jesus, see: Jesus of Nazareth. Christaller, Walter, 1975 May p. 66, 68, 72-78. Christensen, Larry, 1976 July p. 51. Christensen, Ralph, 1951 Aug. p. 24. Christenson, James H., 1964 Sept. p. 82; Dec. p. 62; 1965 Apr. p. 56; Dec. p. 29, 32; 1969 Oct. p. 90. Christian, C. L., 1967 Jan. p. 115. Christian, Fletcher, 1955 Nov. p. 36. Christian Heritage College, 1977 Dec. p. 87. Christian, John J., 1974 June p. 40, 42. Christian Science Church, 1952 Feb. p. 40; Mar. p. 44. Christian V, King, 1976 Jan. p. 112. Christiansen, Arthur, 1963 Aug. p. 41. Christiansen, W. N., 1955 May p. 46; 1975 Aug. Christianson, Louise, 1977 Mar. p. 122. Christie, Amos, 1948 June p. 13, 14. Christie, Dugald, 1970 Dec. p. 79. Christina, Queen of Sweden, 1959 Oct. p. 166; 1964 Sept. p. 149; 1973 Dec. p. 99. Christison, Robert, Sir, 1971 Jan. p. 96. Christofides, Nicos, 1978 Jan. p. 107, 109.

Christofilos, Nicholas C, 1953 June p 48, Oct p 51, 1958 Oct p 53, 1959 Mar p 46, May p 70, 1972 Apr p 25, 26, 33 Christofori, Bartolommeo, 1965 Dec p 91, 93 Christy, Henry, 1964 Aug p 86, 89 Christy, Robert F, 1950 Jan p 45, 1975 June p 74, 1976 Dec p 95, 1978 June p 83 Chrysler Corporation, 1960 Aug p 46, 1974 Aug p 57, 1975 Apr p 53, 1976 Nov p 106, 1977 Aug p 98, 99, Sept p 186 Chrysler, Walter, 1977 Aug p 99-101 Chrysler, William P, 1977 Aug p 98 Chrysostomos, Dion, 1966 Dec p 99 Chu, Elizabeth, 1965 July p 56 Chu, Geoffrey F, 1964 June p 55 Chuang, T, 1973 June p 55 Chubb, Frederick W, 1951 May p 64-69 Chubb, Talbot A, 1959 June p 57, 1963 Dec p 68, 1964 June p 37, Sept p 86, 1966 Apr p 50, 1969 July p 52 Chubbuck, Gerald, 1967 Jan p 44, 47, 48, 51, Chugach Electric Association, 1956 Dec p 54 Chugainov, P F, 1964 Aug p 18 Chumakov, I S, 1972 Dec p 35 Chumakov, Michael P, 1959 Feb p 94, Aug Chupka, William A, 1954 Nov p 49, 1968 Oct Chupp, W, 1956 June p 41 Churaev, N V, 1970 Nov p 62 Church, A H, 1952 July p 22 Church, Alonzo, 1971 Mar p 51, 57, 58, 60, 1973 Nov p 85, 90, 1975 Apr p 34, 1977 Oct p 111 Church, Frank, 1972 Apr p 15 Church of the Brethren, 1953 Aug p 76 81 Church, Ron, 1961 Aug p 44, 1962 June p 129 Churcher, C S, 1976 Aug p 32 Churchill, Edward D, 1950 Jan p 15 Churchill, John, 1958 June p 74 Churchill, John, Duke of Marlborough, 1976 Jan p 115 Churchill, Winston S, Sir, 1948 June p 17, 1950 June p 11, 1952 Apr p 36, Dec p 34, 1954 May p 47, 1955 Jan p 42, 1956 June p 78, 1973 Sept p 45 Churchman, C West, 1972 Dec p 87, 88 Ch'u-ts'ai, Yeh-Iu, 1963 Aug p 64 Chvapil, M , 1963 Apr p 106 Chytil, Frank, 1972 Mar p 42 CIA, see US Central Intelligence Agency Ciampi, Elgin, 1957 June p 55 CIBA Limited, 1949 July p 44, 1963 July p 51, 1970 Oct p 45, 50, 1971 Mar p 29 Cicero, 1949 June p 41, 1950 Oct p 44, 1952 Apr p 83, 1958 Apr p 70, 1963 Dec p 115, 1974 Apr p 50 Cieciura, S J, 1957 Aug p 93 Cierva, Juan de la, 1955 Jan p 37, 1967 Apr p 39 Cieza de Leon, Pedro, 1952 July p 19, 20 Cigliano, Eduardo, 1967 Nov p 45 Cinader, Bernhard, 1964 Dec p 114, 1973 Nov p 61, 63, 1977 Jan p 50 Cinci, 1949 Aug p 45 Cincinnati Milacron Inc., 1975 Feb p 25 Ciossi, P. P., 1962 June p. 67 Cipriani, L, 1957 May p 44 Cita, Maria, 1972 Dec p 32 Citarella, R V, 1967 Dec p 25 City of Hope Medical Center, 1963 July p 61 Claassen, Howard H , 1962 Nov p 76, 1966 Oct p 64 Cladis, John B 1960 Mar p 93 Claesson, S., 1951 Mar p 41 Clairaut, Alexis C., 1960 July p. 47, 1967 Oct

p 70 Claman, Henry N, 1973 July p 58, 1974 Nov Clamp, John, 1974 May p 80 Clapp, P F, 1952 Oct p 30 Clara, M., 1973 Apr p 75, 78, 82 Clarendon, Lord, 1977 Nov p 150, 151 Clark, Alison, 1977 Aug p 95 Clark, Alvin, 1977 Oct p 46 Clark, Alvin J, 1976 Dec p 109 Clark, Barry G, 1972 Feb p 76 Clark, Bennett C Jr., 1950 Feb p 27 Clark, Benton C, 1978 Mar p 86 Clark, Brian F C, 1968 Mar p 69, 1969 Mar p 50, 1978 Jan p 59 Clark, Colin G, 1955 July p 35, 1960 Sept p 202, 1963 Sept p , 1965 Oct p 13 Clark, David H, 1974 Nov p 84, 87, 95, 1976 June p 49, 105, July p 66 Clark, Dwight E, 1955 Oct p 41 Clark, E T, 1949 Mar p 37 Clark, Earl, 1953 July p 57 Clark, Eleanor L, 1969 June p 48 Clark, Ehot R., 1969 June p 48 Clark, Ellen, 1951 July p 63 Clark, Eugenie, 1962 July p 66 Clark, F C, 1969 Oct p 34 Clark, G L, 1962 Apr p 68 Clark, George W, 1959 Nov p 140, 1969 Nov p 58, 1976 Feb p 54, 1977 Oct p 42 Clark, Grahame, 1965 Apr p 83, 1976 Oct p 126 Clark, J Desmond, 1969 May p 49, 1976 Aug p 37, 1978 Apr p 104 Clark, Joe, 1952 Oct p 68, 69 Clark, John H, 1977 Feb p 95 Clark, John M Jr, 1967 Feb p 42 Clark, Joseph S, 1977 Nov p 43 Clark, Karl A, 1966 Feb p 21 Clark, Kenneth C, 1966 Mar p 106 Clark, Kenneth, Sir, 1969 Sept p 61 Clark, Leland C, 1954 Aug p 25, 1968 Aug p 74 Clark, Lincoln D, 1969 Dec p 20 Clark, Master, 1963 Sept p 88 Clark, Melville, 1974 Nov p 84 Clark, R T, 1955 Dec p 67 Clark, Sam L Jr, 1961 Sept p 167 Clark, Sidney P Jr 1972 Jan p 47 Clark, Stanley H, 1959 July p 71 Clark, Tom C, 1949 Feb p 19 Clark University, 1963 Feb p 123 Clark, W A Jr, 1962 June p 143, 144 Clark, Wilfred Le Gros, Sir, 1958 July p 77 Clark, Wilfrid Le Gros, Sir, 1948 May p 18, July p 19, 1953 Dec p 69, 1954 Jan p 38, 1964 July p 61, 1966 Nov p 52 Clark, William, 1948 Dec p 14 Clarke, Alexander, 1967 Oct p 71 Clarke, Arthur C, 1961 Oct p 90, 91, 1977 Feb p 58 Clarke, C A, 1971 Nov p 34, 1975 Jan p 95, 97, 98 Clarke, David L., 1965 Apr p 83, 1976 Feb Clarke, Delphine H , 1955 Mar p 68, 69 Clarke, Donald A, 1977 May p 76 Clarke, Frank W, 1960 June p 148 Clarke, G L, 1962 Aug p 48 Clarke G R, 1969 Dec p 28 Clarke, J Christopher, 1971 Mar p 103 Clarke, John, 1974 June p 44 Clarke, Neville P., 1959 Mar p 62 Clarke, R J. 1970 June p 52 Clarke, R. W., 1966 Dec. p. 40 Clarke, Robert 1969 Sept p 158 Clarke, Ron, 1976 June p 110

Clarke, Samuel, 1968 May p. 98 Clarke, W J, 1966 June p 97 Clarke, William D, 1971 Jan p 72 Clarke, William L., 1965 Sept p 210 Clarkson, J K., 1959 Mar p 66 Classe, Andre, 1957 Apr p 111 Claude, Albert, 1957 July p 133, 1974 Dec. p 56 Claude, Georges, 1956 July p 104, 1970 Sept. p 141 Claude, Philippa, 1978 May p. 142 Claudius, Emperor, 1974 Dec p 124, 1977 Feb p 39, Dec p 161, 1978 May p 159 Claudius II, 1974 Dec p 123 Claus, George, 1963 Mar p 45, 47 49 Clausen, Roy E., 1951 Apr p 55, 56 Clauser, Henry R., 1973 Dec p 17 Clauser, John F, 1967 June p 33, 34 Clausius, Rudolf, 1949 July p 12 1952 Mar p 49, 1954 Sept p 123, 61, 1955 June p 62 1957 Dec p 104, 1958 Mar p 96, 1959 Oct p 114, 1964 Sept p 106, 1967 Nov p 104 106, 1968 Jan p 119, 120, 1969 July p 75 1971 Sept p 180, 182, 1975 Dec p 60 Claussen, Walter F, 1956 Apr p 88 1962 July p 84 Clauswitz, Karl von, 1948 June p 21 1963 Aug Clavius, Christopher, 1973 Dec p 97 99 Clay, Douglas, 1971 Aug p 70 Clay, Henry, 1976 June p 21 Clay, J., 1949 Mar p 31 Clayton, David A, 1968 Jan p 46 Clayton, Derek, 1976 June p 111 Clayton, Donald D, 1974 Jan p 75 Clayton, Richard M, 1968 Dec p 94 Clayton, Robert N, 1978 Jan p 66 Clayton, Roderick K, 1953 Mar p 39 Cleary, John, 1973 Mar p 30 Cleaver, Eldridge, 1971 Dec p 13 Cleaves, Francis W, 1963 Aug p 56 Cleeton, C E, 1948 Sept p 18 Clegg, James S, 1971 Dec p 32, 34 Cleland, W E, 1966 Apr p 98 Clemence, G M, 1956 Feb p 50, 1959 Apr p 93, 1973 Jan p 61 Clemens, Lynwood, 1976 July p 51 Clemens Samuel L, 1951 Sept p 43 Clemens, Samuel L, 1953 Oct p 48 1954 Feb p 40, 1958 Apr p 50, 1968 Dec p 84 85 90 Clemens, W A, 1965 Aug p 84, 85 Clemens, Wilbert A, 1955 Aug p 73 Clement, Joseph, 1952 Apr p 67 Clement XI, Pope, 1950 June p 44 Clement Cormier, Yvonne, 1977 Aug p 115 Clemente, Carmine D, 1969 Jan p 85 Clemente, Robert 1977 May p 119, 121 Clementi, A, 1968 Aug p 36 Clements, E M B, 1968 Jan p 23 Clements, F W A, 1971 June p 99 Clements, Frederick E, 1970 Sept p 67 Clements, John A, 1963 Oct p 29 30, 1966 Feb p 61, 1973 Apr p 79 Clemons, K 1, 1967 June p 25 Clemson Agricultural College, 1957 Dec p 66 Cleopatra, 1963 Dec p 115, 1964 Sept p 60 Clerke, Agnes M, 1954 June p 79 Cleve, P T, 1951 Nov p 30 Cleveland Cliffs Iron Company, 1966 Feb p 27, 1968 Jan p 29 Cleveland Clinic, 1958 Aug p 29, 1962 Mar p 65, 1965 July p 57, Oct p 84, Nov p 17 Cleveland Clinic Foundation, 1957 June p 74 Cleveland, Grover, 1950 Nov p 11, 1976 1-Cleveland, L. R., 1971 Aug p 50

Cleveland, Newcomb, 1953 Feb p 34, 1954 Feb p 42 Cleveland Psychiatric Institute, 1970 Aug p 83 Cleveland, Thomas F, 1977 Mar p 91 Clever, Ulrich, 1963 Nov p 118, 1964 Apr p 55, 1966 May p 52 Clever, Urlich, 1965 June p 43 Chiford, Clark, 1974 May p 21 Clifford, Lucy (Lane, Lucy), 1953 Feb p 82 Clifford, Stewart H, 1977 June p 100 Chfford, William K, 1953 Feb p 78-82, 84 Climax Molybdenum Company, 1954 July p 38 Cline, David B, 1974 Dec p 108, 114, 1975 Jan p 49, July p 46, Oct p 50, 1976 Jan p 47, 1977 Apr p 58 Cline, John W, 1952 Mar p 38 Cline, Thomas, 1962 May p 54, 1976 Oct p 75 Chnton, De Witt, 1976 July p 119, 121, 122 Clisby, Kathryn H, 1971 June p 97 Cloez, S, 1963 Mar p 45 Cloos, Hans, 1961 Feb p 98, 1976 Aug p 54 Clos, Charles, 1978 June p 117-129 Cloud, Preston, 1963 Feb p 89, 1967 Jan p 39, 1969 Aug. p 50, 1970 Sept p 111, 112, 52, 53, 64, 64, 1971 May p 30 Cloudsley-Thompson, J L, 1968 July p 108 Clouet, Jean-Francois, 1975 Nov p 102 Clough, Arthur H, 1968 Mar p 50 Clowes, G H A, 1959 Apr p 155 Clowes, Royston C, 1975 July p 28 Club des Haschichins, 1977 Oct p 132 Clusius, Carolus, 1952 Dec p 52 Clute, Kenneth F, 1963 Aug p 21 Cnops, A M, 1966 Nov p 64 Cnut, King of Canute, 1974 May p 41 Coale, Ansley J. 1974 Sept p 31, 35 Coan, Richard, 1963 Mar p 98, 104 Coanda, Henri, 1964 Dec p 82, 83, 1966 June p 84-89 Coates and Welter Instrument Co, 1977 Sept Coates, Christopher W, 1960 Oct p 119, 121, 1963 Mar p 52 Coates, M E., 1952 Oct p 48 Coating Laboratories, Inc., 1954 June p 46 Cobb, Candler, 1951 Sept p 48 Cobb, R, 1963 Nov p 102 Cobb, Stanley, 1956 Feb p 101, 1968 June p 74 Cobbett, William, 1972 Feb p 95 Cobble, J W , 1969 Dec p 54 Cobble, James W , 1957 Nov p 98 Coble Robert L 1969 Mar p 33 Coblentz, W W, 1953 May p 69, 70 72 70 72. Oct p 43, 48, 1965 Aug p 23 28 Cocconi, Giuseppe 1960 Jan p 76, 1973 Nov p 41, 1975 May p 83 Cocconi Guiscppe, 1960 Apr p 63 Cochise, 1956 May p. 78 Cochran, W. G., 1953 Aug. p. 41 Cock, H., 1978 Mar p 138 Cockburn A J., 1963 Dec p 136 Cockcroft, John, Sir 1955 Oct p 37, 1958 Mar Cocke, W. John, 1969 Mar. p. 46, 1971 Jan p 54 Coddington Henry, 1976 Aug p 77 Code Arthur D., 1955 May p 46, 1956 Sept p 10a 1957 July p 66, 1961 June p 116 1:69 June p 101, 1974 leb p 55 Colling Keith 1977 June p 37 Codman Amors, 1957 Jin p 73 Co Wichael D 1967 July p 98 Co Wichael R 1967 June p 46 Cams I 194) June p 44 of Indinek II 1960 Dec p 82 Continued that Son p 104 1901 Aug

p 56, 1965 Oct p 32 Coetzee, J M, 1973 Aug p 47 Coffe, M S, 1971 Feb p 52 Coffeen, D. L., 1975 Sept. p. 76 Coffeen, Mary F, 1965 Feb p 99 Coffin, John M , 1972 Jan p 30, 32 Coffin, Louis F Jr, 1964 May p 64 Coffinhal, J Baptiste, 1956 May p 94 Coffman, Edward G, 1978 Mar p 130 Coffman, John A, 1972 Mar p 57 Coggeshall, Richard E, 1970 July p 64 Coghill, Robert D, 1952 Apr p 56 Cohen, Alvin J, 1961 June p 88, Nov p 64 Cohen, Arthur R., 1962 Oct p 97 Cohen, Bernard L , 1964 Mar p 86, 1976 Jan p 29, 1977 June p 21, 54 Cohen, Carolyn, 1969 Aug p 94, 1975 Nov Cohen, Charles, 1975 Apr p 56 Cohen, David, 1972 Nov p 105 Cohen, E Richard, 1970 Oct p 69, 76, 77 Cohen, Flossie, 1968 Nov p 47 Cohen, Georges, 1972 Feb p 36 Cohen, Gerald, 1976 Mar p 33 Cohen, Henry, 1970 July p 40 Cohen, Hirsch, 1964 Sept p 151 Cohen, I Bernard, 1954 Sept p 61 Cohen, J A, 1959 Aug p 123 Cohen, Jesse M, 1959 Dec p 89 Cohen, John, 1957 Nov p 128 Cohen, Jonathan B, 1976 Oct p 78, 1977 Feb p 111, 111 112 Cohen, Karl, 1954 Dec p 53 Cohen, Leonard, 1971 Dec p 71 Cohen, Mandel E, 1969 Feb p 70, 71 Cohen, Marvin L, 1964 June p 56 Cohen, Melvin J, 1967 May p 50, 52 Cohen, Morley, 1954 Aug p 24, 1960 Feb p 82 Cohen, Morrel H, 1969 Nov p 33, 1977 May p 39, 40 Cohen Morns, 1963 Aug p 80, 1973 May p 77 Cohen, Morton N , 1972 July p 39 Cohen, Paul J., 1964 Jan p 55, Sept p 55, 1967 Dec p 112, 1971 Aug p 93, 94, 98 Cohen, Philip P. 1963 Nov p 112 Cohen S 1967 Oct p 86 Cohen, Seymour S., 1953 May p 38, 1955 July p 77, 1956 Feb p 48, 1970 Jan p 91 Cohen, Stanley N., 1975 July p 25, 1976 Aug p 42 Cohen Yehudi A 1956 Feb p 48 Cohen-Bazire Germaine, 1965 Apr p 36 Cohn Byron E. 1949 Mar p 29, 38 Cohn, Edwin J 1950 June p 33, Sept p 50, 1953 July p 25 27, 1954 Feb p 55-57, 61 62, 1956 Mar p 58 Cohn Melvin 1964 Dec p 109 Cohn Victor, 1952 Fcb p 31 Cohn Zanvil A., 1963 May p. 70, 1967 Nov. Cohnheim Julius, 1951 Feb p 48 Coignet Michel, 1976 Apr p 112 Cotter Volcher, 1964 May p 112 Coke Edward 1967 June p 19 Colbert, Ldwin H., 1950 Nov p. 53, 1959 Apr p 118 1964 July p 52 1963 Apr p 44 Colbert-Laplace, Comte de, 1954 June p. 77 Colburn David'S 1971 Aug p 66 Colburn Zerah, 1954 May p 52 Celby Bunbridge 1959 Jan p. 121, 122 Colby Kenneth M. 1973 I ch p 45 Colby Walter I 1943 July p 33 Cold Spring Harbor Laboratory 1975 Apr. p (5 6),72 Cele I as Coxper 1953 Feb p 51

Cole, Gerald A., 1973 Jan p 22, 25 Cole, Glen H. 1961 Oct p 119, 1969 Dec Cole, Jonathan R., 1977 Oct p 34 Cole, Kenneth S, 1951 Apr p 67, 1952 Nov p 61, 1958 Dec p 84, 85, 88, 1964 Sept p 151, 1966 Mar p 74, 81 Cole, R. D, 1955 Aug p 50 Cole, Rufus, 1959 Jan p 41 Cole, Sonia, 1964 Aug. p 44 Cole, Stephen, 1977 Oct p 34 Cole, W Sterling, 1949 July p 26, 1953 Jan p 31, May p 53, Oct p 50, 1954 May p 52, June p 44, Nov p 33, 34, 1957 Dec p 60 Colebrook, Leonard, 1959 Jan p 41 Coleburn, N L, 1965 Oct p 33 Colella, Roberto, 1976 Jan p 61 Coleman, Aaron, 1954 June p 30 Coleman, Harold J, 1976 Mar p 42 Coleman, James, 1974 Aug p 56 Coleman, L, 1973 June p 60 Coleman, Paul J., 1963 July p 84, 1965 Mar Coleridge, Samuel T, 1951 Sept p 45, 1960 Mar p 145, June p 108, 1964 Nov p 119 Coles, D K., 1948 Sept p 18 Coley, William B, 1974 Apr p 51, 1977 May p 76 Colgate, Stirling A, 1957 Oct p 57, 1966 Aug. p 35, Dec p 51, 1969 Jan p 37, Feb p 63, 1974 May p 118, June p 24, July p 57, 1976 Oct p 78, Dec p 100 Collard, J. G., 1977 June p. 109 Collard, William, 1973 Oct p 28 Colle, Giovanni, 1954 Aug p 24 College de France, 1958 June p 33, 1964 Apr College de France, see French Royal Academy College Entrance Examination Board, 1958 May p 65-67 College of the City of New York, 1965 Apr p 94 College of William and Mary, 1964 June p 87 Collegium Carolinum, 1977 July p 124 Collen, Morris F, 1970 Apr p 19 Colleoni, 1949 June p 52 Coller, Frederick, 1950 Dec p 29 Collerson, Kenneth, 1977 Mar p 100 Colles, M J, 1973 June p 60 Collier, Donald, 1954 Aug p 29 Collier, H L, 1964 Jan p 81, 84 Colher, H O J, 1963 Nov p 104 Collier, John, 1960 Feb p 45, 1977 June p 128 Collier, Leslie H, 1976 Oct p 28 Collier, Robert J. 1968 Feb p 44, Sept p 91 Collins, F D, 1967 June p 72 Collins, Frank, 1977 Nov p 131 Collins, George B, 1951 Oct p 54, 55, 1952 July p 34, 1955 Jan p 44, 1962 Oct p 79, 1973 June p 47 Collins, John, 1975 Nov p 45 Collins Michael, 1971 Oct p 50 Collins R. A., 1968 Apr p 42 Collins, R. James, 1961 June p. 61, 1964 Mar. p 49 Collins Radio Company, 1957 Jan. p. 48, 1959 Apr p 70 Collins, Robert J. 1963 July p. 34 Collins, S. C. 1949 June p. 33, 34 Collins Samuel C, 1961 July p 126 Collins, F. 1966 Nov p 114 Collins, Tucker 1975 Apr p 56 Collinson David W., 1978 Mar p 57 Collessen Peter 1976 May p 55 167 Celliosea, Themas, 1948 Aug. p. 40 Collip J B . 1561 Apr p 26 Cellip J H 1949 Da p 13

Collyer, Robert, 1948 July p. 16, 18. Colman, Alan, 1976 Aug. p. 71. Colman of Kilmacduagh, Saint, 1960 Nov. p. 162. Colombo, Giuseppe, 1968 July p. 33, 35; 1975 Sept. p. 61. Colombo, Realdo, 1948 May p. 30; 1952 June Colony Development Company, 1966 Feb. Color Television, Inc., 1950 Oct. p. 25. Colorado School of Mines Research Foundation, 1966 Feb. p. 25. Colorado State University, 1958 Apr. p. 114; 1971 Apr. p. 77. Colowick, S. P., 1948 Dec. p. 35. Colp, Ralph Jr., 1957 Feb. p. 53. Colquhoun, Patrick, 1963 Sept. p. 55. Colt, Samuel, 1951 Sept. p. 46. Coltman, John W., 1973 July p. 28, 29. Colton, Harold S., 1958 Feb. p. 99. Colton, Theodore, 1977 Jan. p. 43. Columbia Broadcasting System, 1949 Sept. p. 26; 1950 Oct. p. 25; 1951 July p. 28; Dec. p. 34; 1971 Oct. p. 27; 1972 Sept. p. 153. Columbia Broadcasting System Laboratories, 1967 Dec. p. 55; 1973 Feb. p. 18. Columbia Carbon Company, 1973 May p. 35. Columbia University, 1949 Feb. p. 17, 18; May p. 28; 1950 Nov. p. 12; 1951 Feb. p. 26; 1952 June p. 21; 1953 Sept. p. 58, 61, 62; 1957 Feb. p. 82, 118; Apr. p. 53; May p. 53; July p. 70; Nov. p. 56; 1958 Feb. p. 57; Sept. p. 74; Dec. p. 42; 1960 Oct. p. 95; 1961 May p. 61; July p. 49; Oct. p. 146; 1962 July p. 57; Oct. p. 30; 1963 Mar. p. 64, 67, 68; July p. 34, 91, 124; Aug. p. 22, 54; Oct. p. 39; Nov. p. 133, 140; Dec. p. 130; 1964 Mar. p. 86; 1965 May p. 65, 68, 69, 72; June p. 86; July p. 28; Sept. p. 41; Oct. p. 18; Nov. p. 30, 35; 1966 Feb. p. 43; Mar. p. 58; Apr. p. 95, 96; Aug. p. 40; Nov. p. 78; 1970 Mar. p. 58; 1971 May p. 19, 20; 1972 Nov. p. 49; 1973 June p. 93; 1974 June p. 50; Nov. p. 51; 1976 Apr. p. 56; 1977 Feb. p. 97; Apr. p. 52. Columbia University College of Physicians and Surgeons, 1948 Sept. p. 28; 1949 Dec. p. 28; 1951 Dec. p. 47; 1952 Nov. p. 56; 1962 Aug. p. 66; Nov. p. 52; 1963 July p. 59, 60; Dec. p. 100; 1964 May p. 94; Nov. p. 75; 1970 May p. 80; 1971 Mar. p. 30; 1977 Feb. p. 113, 116. Columbia University Lamont Geological Observatory, 1955 Nov. p. 41; 1956 Dec. p. 83 - 90, 92, 94; 1957 Apr. p. 76; 1960 Feb. p. 124; Aug. p. 77; Oct. p. 100; 1961 May p. 82; 1962 May p. 118, 121, 126; July p. 102. Columbia University Lamont-Doherty Geological Observatory, 1972 Jan. p. 47; 1977 Apr. p. 32; Aug. p. 68; 1978 Feb. p. 56. Columbia Valley Authority, 1949 Mar. p. 26. Columbian National Rice Growers Federation, 1976 Sept. p. 190, 194. Columbus, Christopher, 1948 Oct. p. 45; 1949 Jan. p. 43; 1950 June p. 20; July p. 20; 1951 Jan. p. 11, 16; Feb. p. 15; 1953 Jan. p. 50; 1955 Feb. p. 78, 82, 83; 1956 Jan. p. 98, 102; Nov. p. 75; 1958 Sept. p. 59; 1959 Feb. p. 124; June p. 90; 1960 Sept. p. 197; 1962 Dec. p. 79; 1966 Jan. p. 28; Apr. p. 73; 1967 May p. 76; Oct. p. 75; 1968 Oct. p. 116, 117; 1970 Mar. p. 80; Aug. p. 94; 1974 Jan. p. 97. Columbus Ohio Psychiatric Institute, 1960 May Colwell, Robert N., 1969 Jan. p. 68. Comandon, Jean, 1958 July p. 69. Comar, C. L., 1959 Sept. p. 92; 1976 Jan. p. 31.

Combes, Raoul, 1950 Oct. p. 42.

Combrugghe, B. de, 1972 Aug. p. 101, 103. Combustion Engineering, 1968 Feb. p. 29, 30. Comeau, Andre, 1972 Sept. p. 55. Comecon, see: Council for Mutual Economic Assistance. Comer, James P., 1967 Sept. p. 102, Comer, Joseph J., 1967 Sept. p. 117. Comey, Arthur, 1954 Apr. p. 61. Comfort, Alex, 1973 Sept. p. 49. Comings, David E., 1975 Feb. p. 46. Committee for the Scientific Investigation of Claims of the Paranormal, 1978 Apr. p. 78. Commodus, Emperor, 1974 Dec. p. 123, 125, Common Market, see: European Economic Community. Commoner, Barry, 1952 Nov. p. 44; 1953 Feb. p. 35; 1954 Feb. p. 42; 1955 Nov. p. 49; 1957 June p. 76; 1958 Feb. p. 42; Aug. p. 58, 66; 1960 Sept. p. 98; 1962 Feb. p. 72; 1963 May p. 75; 1965 Feb. p. 50; 1969 Mar. p. 48; 1970 Aug. p. 73. Commonwealth, see also: British; U.K; Australian. Commonwealth Edison Company, 1953 July p. 40; 1968 Feb. p. 28; 1972 Oct. p. 29; 1976 Dec. p. 37. Commonwealth Scientific and Industrial Research Organization, 1954 Feb. p. 35; 1956 Oct. p. 68; 1965 July p. 30; 1966 Dec. p. 40; 1968 Jan. p. 66; 1969 Aug. p. 87, 89; 1974 Dec. p. 66; 1977 Aug. p. 81. Communication Satellite Corporation, 1966 Jan. p. 19; Sept. p. 150. Communications Satellite Corporation, 1971 Sept. p. 76; 1976 Apr. p. 55; 1977 Feb. p. 58. Comnenus, Manuel, 1968 Oct. p. 115. Compton, Arthur H., 1949 Mar. p. 32, 44; July p. 39; Dec. p. 14; 1950 Sept. p. 30; 1951 May p. 28; Oct. p. 54; 1952 Mar. p. 54; 1958 Jan. p. 51; 1967 Nov. p. 27; 1968 Sept. p. 54, 57; 1971 July p. 84, 95; 1977 Aug. p. 38. Compton, Karl T., 1948 Oct. p. 24; Nov. p. 24; 1951 Feb. p. 30; Sept. p. 71; 1956 Nov. p. 83. Comstat General Corporation, 1977 Feb. p. 68. Comstock, Anthony, 1973 July p. 18. Comte, Auguste, 1948 May p. 20; 1950 Mar. p. 38; 1954 Oct. p. 33; 1968 Sept. p. 75. Conant, James B., 1948 June p. 10; 1950 Mar. p. 14, 24; June p. 13; Dec. p. 26; 1951 Feb. p. 30; Apr. p. 32; June p. 31; Oct. p. 32; 1956 Nov. p. 83; 1958 June p. 44; 1964 Nov. p. 65; 1975 Oct. p. 108, 109, 113. Conant, John B., 1952 Jan. p. 40. Conard, Robert, 1967 Mar. p. 29. Concast A. G., 1963 Dec. p. 75, 76, 81, 83, 86, Conch International Methane Ltd., 1967 Oct. p. 36. Condamine, Charles M. de la, 1956 Nov. p. 75; 1967 Oct. p. 70, 71; 1976 Jan. p. 115 Condon, Edward U., 1948 June p. 34; Sept. p. 28; 1949 Feb. p. 16-21; June p. 29; Oct. p. 28; 1950 Dec. p. 13, 16; 1952 Feb. p. 30; 1953 Feb. p. 34; May p. 54; 1954 Feb. p. 42; July p. 42; 1955 Feb. p. 52; 1968 Sept. p. 158, 160; 1969 Feb. p. 36. Condorcet, Marquis de, 1976 June p. 22, 23, 26, Cone, Charlotte, 1977 Nov. p. 138. Cone, Clarence D., 1977 Nov. p. 138. Cone, Richard A., 1972 May p. 50; 1976 June p. 43. Confucius, 1950 May p. 48; 1973 Feb. p. 55. Cong, Hong-Ib, 1978 Apr. p. 117. Congress of Directors of National Ephemerides,

1961 Apr. p. 66, 67.

Congreve, William, Sir, 1949 May p. 31, 32, 35; 1958 June p. 74. Conklin, Edward, 1970 June p. 33; 1978 May Conklin, Edwin G., 1949 Sept. p. 15. Conklin, Marie E., 1968 July p. 76. Conlan, John B., 1975 July p. 45; 1976 Apr. p. 34, 37, 39; 1977 Oct. p. 34, 36. Conley, Joseph M., 1965 Aug. p. 27. Conn, P. M., 1976 Feb. p. 43. Connaught, Duchess of, 1965 Aug. p. 89. Connaught Laboratories, Ltd., 1976 Oct. p. 29. Connecticut Agricultural Experiment Station, 1952 Feb. p. 38; 1953 Aug. p. 37, 38; 1971 Connecticut River Survey, 1970 May p. 44, 51, 52. Connecticut State Board of Fisheries and Game, 1953 June p. 54; 1970 May p. 44, 50. Connecticut State Highway Department, 1953 Aug. p. 38. Connecticut Water Resources Commission, 1970 May p. 44. Connecticut Yankee Atomic Power Company, 1970 May p. 42, 44. Conneff, Thomas, 1976 June p. 114. Connell, Joseph H., 1970 Apr. p. 87. Connes, Janine, 1968 Sept. p. 82; 1975 Sept. p. 74, 75. Connes, Pierre, 1968 Sept. p. 51, 105; Nov. p. 56; 1975 Sept. p. 74, 75. Conney, Allan H., 1975 June p. 30. Connolly, R. C., 1969 Dec. p. 55. Connor, Ralph A., 1952 Nov. p. 46. Conover, Thomas E., 1968 Feb. p. 38. Conrad, Charles Jr., 1970 Jan. p. 49; 1971 Aug. CONRAD Engineers, 1966 May p. 56. Conrad, Peter W., 1962 Jan. p. 68. Conrad, R., 1966 July p. 93. Conrad, V., 1949 Oct. p. 14. Conrady, A. E., 1976 Aug. p. 77. Conrath, B. J., 1977 July p. 39. Conroy, R. T. W. L., 1970 July p. 58. Consalvi, Simón A., 1977 Nov. p. 70. Consden, R., 1951 Mar. p. 39; 1960 Mar. p. 133. Consolidated Edison Company of New York, Inc., 1953 Apr. p. 48; 1955 Apr. p. 46; July p. 48; 1957 May p. 62; 1968 Feb. p. 23; 1971 Sept. p. 152. Consolidated University of North Carolina, 1951 Apr. p. 46, 49. Consolidated-Vultee, 1949 May p. 38. Consolidation Coal Company, 1967 Jan. p. 70; 1970 Sept. p. 125. Constable, John D., 1971 Feb. p. 44. Constantine I, Emperor, 1966 Feb. p. 102, 105; 1967 May p. 69; 1969 Dec. p. 46; 1971 Aug. p. 32; 1973 Sept. p. 128; 1976 Jan. p. 116. Constantinides, P. C., 1951 Dec. p. 42; 1956 Mar. p. 34. Constantinos, Prince, 1964 June p. 105, 112. Constock, 1967 Oct. p. 35, 36. Consultants Bureau Inc., 1958 Apr. p. 50. Consultive Group on Food Production and Investment, 1976 Sept. p. 204. Consultive Group on International Agricultural Research, 1976 Sept. p. 188, 190. Contenau, G., 1971 June p. 109. Conterio, Franco, 1969 Aug. p. 30. Control Data Corporation, 1965 Nov. p 59; 1966 Sept. p. 85, 86, 90; 1970 Oct. p. 104. 1972 Sept. p. 139; 1973 June p. 93, 1977 June Controulis, John, 1949 Aug. p. 32. Converse, Philip E., 1970 June p. 17; 1974 Nov. p. 116, 118.

Cartilla Commence Commence

Conversi, M , 1962 Aug p 41 Convit, J., 1953 Oct p 33 Conway, Abby, 1973 Oct p 57 Conway, Arthur, 1954 May p 87 Conway, E J, 1949 Aug p 20, 1952 Nov p 59, 1954 Feb p 76 Conway, R G, 1963 Dec p 56 Cook, Charles D, 1963 Oct p 28, 30 Cook, Constance, 1974 Aug p 57 Cook, Earl, 1971 Sept p 38, 135 Cook, G C, 1972 Oct p 73, 75 Cook, G D, 1965 Dec p 79 Cook, James, 1953 Mar p 88, 89, 1954 Oct p 69, 1956 Aug p 59, 63, 66, 68, 1962 Sept p 64, 1967 Aug p 61, 1969 Sept p 58, 59, 62, 1972 Apr p 15, 1977 Aug p 81 Cook, Joan E, 1961 Sept. p 116 Cook, Laurence M, 1975 Jan p 90, Aug p 57 Cook, Newell C, 1967 Sept p 106, 1969 Aug. Cook, Robert A, 1970 Feb p 46 Cook, Robert C., 1952 Oct p 44, 1958 Feb p 50 Cook, Roy L , 1977 Jan p 28 Cook, Stephen A, 1978 Jan p 106 Cook, Stuart W, 1957 May p 68 Cooke, D I, 1971 Dec p 27 Cooke, J, 1976 Apr p 83 Cooke, Morris L , 1951 Feb p 32 Cooksey, Donald, 1948 June p 27 Cool, Terrill A , 1970 Feb p 44 Cooledge, John W, 1962 Feb p 119, 120 Cooley, C H, 1950 Sept p 81 Cooley, James W, 1964 Sept p 151, 1966 Oct p 46, 1968 Sept p 102 Coolidge, Calvin, 1960 Feb p 43, 1970 May p 23 Coolidge, Julian, 1949 Jan p 45 Coombs John S, 1972 Aug. p 86 Coon Carleton S. 1951 June p 36, 1952 Feb p 32, 1953 Aug p 81, 1966 Nov p 53 Coon, Hayden, 1969 Apr p 33 Coons, Albert H. 1957 July p 96, 1964 Dec p 106 Coons, Steven A., 1966 Sept p 71, 177, 188 Cooper, Alan F Jr, 1971 Dec p 30 35 Cooper, Alfred W M, 1967 July p 81 Cooper, B F C, 1962 Nov p 72, 1963 June p 99 Cooper D C . 1953 Fcb p 49 Cooper, Dexter P., 1963 Sept. p. 84 Cooper Elizabeth K 1949 Dec p 53 Cooper, Franklin S 1969 Dec p 54 Cooper Grahame F 1974 Nov p 111, 1977 Jan p 64 Cooper, James F 1956 Apr p 112 Cooper L H N 1949 Oct p 17 Cooper Leon N 1957 June p 74, Nov p 96 1961 July p 132 1964 June p 56 Aug. p 39 1965 Feb p 22 Oct p 60, 1966 May p 31, 1967 Mar p 117, 1971 Mar p 76 Apr p 83 Nov p 26 1972 Dec p 41, 1973 Dec p 55 1976 Dec p 64 Cooper Louis Z 1966 July p 30 Corper Max D 1974 Nov p 59 61 67 69 Corper Peter 1949 Dec p 57, 1976 July p 124 Curper R 1970 Oct p 24 29 Cooper Ruth 1959 Mar p 91 Corpersmith Alice L. 1964 Leb p 96 Cipe 1 5 1357 Leb p 118 Cepe I dward D. 1943 Mar. p. 40, 1950 Nov. p 52 54 55 Cipcland A. H. 1976 June p. 26, 27 Cipcle of H. therr I. 1771 Aug. p. 55 Cipcland Jed a 1963 June p. 54, 1972 Leb Created I I lorater prop

Copeland, W O, 1967 Nov p 54 Copenhagen Academy of Science, 1966 Feb p 82 Copenhagen Telephone Company, 1968 Aug p 103 Copenhaver, W. M., 1967 Mar. p. 32 Copernicus, Nicolaus, 1949 Apr p 47, 46, Aug p 40, 42, 43, 45, 46, Dec p 43, 56, 1950 Feb p 33, 1952 Oct p 53, 1953 Feb p 80, 81, 1954 July p 30, 1956 Sept p 77, 79, 91, 224-226, 1958 Sept p 60, 61, 63, 1960 Sept p 180, 1961 Feb p 120, 125, Aug p 56, 1964 Mar p 101, Sept p 63, 130, 1966 Oct p 88, 89, 91-95, 97, 98, 1967 Oct p 69, Dec p 98, 1969 Nov p 105, 1970 Oct p 30, 1972 Mar p 94, 100, 105, 1973 Apr p 88-91, 93, Oct p 48, Dec p 87-90, 95-101, 1975 Sept p 23, 59, Dec p 66, 1977 June p 121, Oct p 80 Copp, D Harold, 1970 Oct p 42, 44 Coppleson, V M, 1957 June p 57-59 Coram, Thomas, 1972 Feb p 94, 96, 99 Corballis, Michael C, 1971 Mar p 96, 1976 Dec p 42 Corbally, John E, 1978 June p 83 Corbato, Fernando I, 1966 Sept p 70, 196, 207, 86, 120, 129, 147, 162, 182 Corbato Fernando J, 1966 June p 49 Corben, H C, 1956 Oct p 93, 1966 Apr p 93 Corcoran, A C, 1957 Dec p 53, 1959 Mar D 54 Cordani, U, 1968 Apr p 59 Corday, Eliot, 1963 Dec p 100 Cordoba, 1975 Oct p 80 Corelli, Arcangelo, 1967 Dec p 98 Coren, Stanley, 1976 Apr p 52 Corenzwit, Ernest, 1962 June p 63, 82, 1970 May p 57, 1971 Nov p 28 Corey, Brian E., 1977 Nov p 72, 1978 May p 64, 70, 72, 73 Corey, Elias J., 1968 July p 50, 1970 June p 72, 1971 Nov p 89 Corey H E., 1961 Oct p 110 Corey, Robert B, 1949 May p 21, 1951 Aug p 32, 1953 Sept p 102, 1954 Dec p 52, 1957 Sept p 173, 1961 Dec p 108, 1964 Nov 72, 1966 June p 47, Nov p 85, 1969 Aug p p 91, 93, 94 Cori, Carl F 1948 Dec p 35, 1949 Dec p 14, 1950 June p 33, 1967 Nov p 25, 27, 1971 Oct p 20, Dec p 38, 1974 Dec p 56 Con Gerty T., 1948 July p. 31, 1949 Dec. p. 14, 1950 June p 32 Dec p 26, 1967 Nov p 27, 1971 Dec p 38 Conell, Lewis L. 1949 Nov p 50, 1953 July p 27 Conolis G G 1952 May p 72 Cork Bruce, 1956 June p 41, Nov p 64, 1962 Aug p 42, 43 Corley James H., 1953 May p. 54 Cornaro Luigi 1948 June p 43 Comblect, Theodore, 1950 Aug. p. 30 Cornefert Francine 1969 Apr p 26 Cornell Aeronautical Laboratory Inc., 1953 June p 32 Dec p 56 1956 June p 132 1957 Apr p 70 1958 Sept p 85 1960 Dec. p 52, 1965 Sept p 172, 1973 Feb p 75 80 82 84 Cornell University 1950 Nov p 12, 1956 Sept p 111 112 Oct p 56 1957 Jun p 38, Sept. p 214 1958 Feb p 72, Oct p 86, 1560 Apr p 64 Aug p 52 1562 Jan p 89, Mar p 65 Apr p 60 Aug p 60 1563 Jan p 44, Mar p 45 56 Apr p 106, Ju ep 59, Oct p 107 Nov p 43 49 50 11s, 1564 Apr p 65 105 Junep 40 43 54 Oct p 60 Nov p 50, Dec p 72 1365 Mir p 33 38 39, Apr p 75

Dec p 62, 1966 Mar p 58, June p 97, July p 102, 103, Oct. p 60, 1971 July p 101; 1973 July p 48 Cornell University Medical College, 1952 Aug. p 40, 1958 June p 42, Oct p 37, 100, 1961 Apr p 95, 1962 July p 45, Aug. p 72, 105, 1963 June p 85, 1964 June p 67, 1965 Sept p 186, Dec p 68, 74 Corner, E D S, 1960 July p 122 Corner, George W, 1952 Feb p 62, 1958 Apr p 41, 43, 45 Cornford, Francis, 1951 Sept p 82 Cornforth, John W, 1968 July p 78, 1975 Dec p 48 Corning Glass Works, 1948 Aug. p 15, 1961 Jan p 93, 97-99, 103, 1968 Sept. p 198, 1971 Feb p 47, 1977 Aug p 46 Corning Museum of Glass, 1963 Nov p 121. Corning, William C, 1961 Dec p 78, 1963 Feb p 56, 57 Cornish, Elizabeth, 1968 Mar p 114 Cornish, Joseph J III, 1956 Apr p 49 Cornish Vaughan, 1959 Aug. p 77 Cornwall, Earl of, 1967 Dec p 119 Cornwallis, Lord, 1965 Sept p 98 Corporacian Venezolana de Guayana, 1963 Sept p 136 Corporacion Venezolana de Guayana, 1965 Sept p 123, 128-130 Сотеа, ЈР, 1954 Дес р 46 Correns, Carl, 1950 Sept p 55, Nov p 31, 32, 34, 35, 1956 Oct p 79, 81, 1965 Jan p 71, 1968 July p 55 Corsi, A., 1975 Nov p 38 Corson, Ben, 1970 May p 21 Corson, Dale R., 1950 Apr p 43, 1978 June Corssen, Guenter, 1963 Sept p 86 Cort, Henry, 1974 Aug p 96, 1977 Nov p 142, Cortelyou, George B., 1963 Mar p. 118, 121, Cortez, Hernando, 1957 Feb p 114, 1964 July p 96, 98, 1966 Jan p 28, Apr p 73, 1975 Oct p 80 82 Corwin, Alsoph H, 1953 Feb p 38 Cory, Joseph G, 1968 May p 113 Cosenza, Humberto, 1973 July p 59 Coser, Lewis A. 1970 Nov p 96 Cosper, S W. 1978 June p 71 Coss, Richard G. 1975 Nov p 117 Costa, Erimino, 1955 Oct p 86, 1977 Aug. Costa, Giovanni, 1968 July p 50 Costas, Philip, 1966 Oct p 46 Costerton, J W. 1978 Jan p 86 Cotell, R., 1954 Dec. p. 44 Cotes Roger, 1973 Apr p 44, 1976 May p 98 Cotran Ramzi S, 1976 Vlay p 61 64 Cott, Hugh B, 1952 Apr p 44, 1957 Oct p 49 Cottam, Clarence, 1967 Mar p 31 Cotteau E 1949 Sept p 52 Cotter, John L. 1966 June p 105 Cottler Joseph, 1949 Dec. p. 56 Cottrell A H 1955 July p 83, 84 1967 Sept. p 59 Conrell Frederick G 1954 Sept p 112 1972 Mar p 45 Cotugno Don enico 1964 May p 115 Couras Croorse C 1973 Sept p 109, 1974 June p 65, 1977 Aug p 112 Coubertin Baron Pierre de 1968 Aug p 35 Coucaro A 1500 Oct p 119 Couch John N. 1907 Nov. p. 112 Ceach Robert B 1965 Dec p 56 Cruche August n 1971 Aug p 94

Coues, Elliott, 1955 Mar p 90 Coulomb, Charles A de, 1948 Aug p 42, Oct p 16, 1951 Feb p 55, 57, 58, 1953 Apr p 33, 1955 June p 64, 1956 May p 109, 1960 July p 48, 1961 Nov p 154, 1966 Oct p 68, 1971 Feb p 106, Oct p 99-102, 1975 July p 50, 1976 May p 89, 90, 91, 94, 96 Coulson, Alan R, 1977 Dec p 56 Coulson, C A, 1953 Oct p 79 Council for Mutual Economic Assistance (Comecon), 1970 Oct p 102 Counselman, Charles, 1968 July p 34 Counts, George W, 1968 Feb p 91 Courant, Ernest D, 1952 Nov p 41, 1953 June p 48, 1954 Mar p 45, Oct p 43, 1958 Mar p 73, 1966 Nov p 112 Courant, Richard, 1969 Mar p 70 Courmont, Frederick, 1958 Aug p 85 Cournand, Andre F, 1956 Dec p 52, 1967 Nov p 28 Courtenay, Jan B, 1972 Sept p 73 Courtillot, Michel, 1975 Mar p 100, 101 Courtillot-Wielezynska, Barbara, 1975 Mar p 101 Courtney-Pratt, J S, 1962 Apr p 115 Coury, John N, 1964 June p 65, 68 Cousins, T E, 1962 Nov p 72 Cousteau, Jacques-Yves, 1957 June p 61, 1959 Mar p 102, 1964 May p 64, 1966 Mar p 28, Couteaux, R, 1965 June p 86 Coutts, Christine M, 1975 June p 72 Coutts, Douglas, 1960 Nov p 154 Coven, A W, 1949 Nov p 28 Coventry Machinists' Company, Limited, 1973 Mar p 82 Covington, A E, 1955 Mar p 42 Covino, Benjamin G, 1960 Feb p 79 Cowan, Clyde L Jr, 1953 Nov p 50, 1956 Jan p 58, 61, 68, Aug p 48, 1962 Aug p 92, 93, 1963 Mar p 63, Oct p 45, 1965 Oct p 38, 1966 Feb p 40, 43, 1973 Aug p 30, 33 Cowan, E G, 1948 Dec p 26 Cowan, E W, 1957 July p 75 Cowan, Pauline M, 1957 Sept p 182, 1961 May p 122 Cowan, Ruth, 1976 Apr p 61 Cowan, S L, 1958 Dec p 87 Cowden, Ronald R, 1962 Feb p 113, 122 Cowgill, Ursula M, 1970 Jan p 104 Cowie, Dean B, 1958 Aug p 48 Cowlard, F C, 1968 Feb p 54 Cowles, R B, 1959 Apr p 107, 118 Cowley, Anne P, 1970 Dec p 27 Cowper, William, 1952 Jan p 31 Cox, A J, 1974 July p 65, 67 Cox, Allan, 1963 Oct p 62, 1967 July p 33, Aug p 40, Dec p 55, 1968 Apr p 57, 58, Dec p 65 Cox, Arthur N , 1969 July p 36, 1975 June Cox, Charles S , 1973 Feb p 69, 73 Cox, D F, 1966 June p 99 Cox, Donald P., 1978 Jan p 83, 84 Cox, Edward C, 1964 July p 45 Cox, Herald R , 1959 Aug p 64, 1960 Oct p 83 Cox, Hiden T, 1958 Feb p 40 Cox, J M. 1974 Aug p 68, 69 Cox, John P, 1975 June p 73 Cox, Keith G, 1978 Apr p 120 Cox, Robert A , 1963 Oct p 48 Coxeter, H S M , 1974 July p 97-99 Cozzarelli, Nicholas R., 1968 Oct. p. 75 Craddock, James, 1975 June p 90 Crafoord, Clarence, 1950 Jan p 17, 1951 Mar p 21; 1960 Feb p 79, 1961 Apr p 91

Craft, Harold D Jr, 1968 Oct p 30, 1969 Jan Craft, Robert P, 1961 Jan p 107 Craig, Harmon, 1958 Feb p 57, 1974 May p 112 Craig, John, Sir, 1958 Sept p 96 Craig, Lyman C, 1950 June p 37, 1961 Feb p 88, Apr p 57, 59, 1963 July p 50, 1966 Feb p 37, 1970 Aug p 37, 1977 Jan p 52 Craig, Paul P , 1967 Mar p 122 Craig, Richard A, 1957 Apr p 138, 139 Craig, Roderick, 1954 Feb p 76, 79 Craig, W, 1974 Nov p 20 Craik, Fergus, 1971 Aug p 85 Craik, K J W, 1966 Sept p 247, 1976 Jan p 99 Craik, Kenneth, 1963 Oct p 85, 1972 June p 97, 99 Cram, Donald J, 1976 Feb p 112 Cram, Thomas, 1974 Apr p 67 Cramer, Friedrich D, 1962 July p 88, 91 Cramer, Kim, 1971 Feb p 18 Cramp, Charles H, 1949 Dec p 35 Crane, Charles, 1949 Sept p 13 Crane, Diana, 1973 Sept p 60 Crane, E J, 1948 Dec p 26, 1951 Oct p 33 Crane, H R, 1961 July p 54 Crane, Robert K., 1959 Apr p 152 Cranshaw, T E, 1960 Mar p 84, Apr p 79, 80, 1962 Aug p 41, 42 Cranwell, Lucy, 1954 Feb p 88 Crary, Albert P, 1954 Dec p 44, 45, 1956 Dec p 85, 1960 Mar p 86, 1962 May p 117 Crashan, Richard, 1977 June p 125, 126 Crassus, Marcus L, 1965 Sept p 63 Cratylus, 1967 Jan p. 98 Crawford, Bryce, 1966 July p 106 Crawford, Carl B. 1963 Nov p 134 Crawford, David R, 1971 Dec p 25, 27 Crawford, Frank S, 1957 Mar p 64, 1971 Sept p 84, 1974 June p 56 Crawford, Irving, 1967 May p 88 Crawford, John A, 1962 Apr p 63 Crawford, O G S, 1975 Feb p 41 Crawford, William H, 1976 June p 21 Cray Research, Inc., 1977 Sept p 170, 171, 216 Creagan, Richard P, 1974 July p 42 Creaser, Edwin P, 1950 Oct p 28 Creation Research Society, 1971 Jan p 46, Feb p 46, 1972 Aug p 44, 1973 Feb p 47, 1977 June p 61 Creech, John L, 1975 June p 15 Creech, Oscar Jr., 1959 June p 85, 1961 Apr p 101 Creed, E R, 1975 Jan p 93, 98 Creel, D J, 1974 May p 50 Creer, K. M., 1966 Oct p 28, 1968 Apr p 58 Creighton, Charles, 1977 Dec p 89 Creighton, Philip E, 1976 Aug p 82 Creighton, William S, 1958 Mar p 39 Cremer, R. J., 1975 July p 74 Crenshaw, John W., 1970 Mar p 105, 106 Cressman, Luther S, 1968 Oct p 62 Creutz, Edward C, 1970 Feb p 13 Crewdson, Richard C, 1969 May p 83 Crewe, Albert V, 1970 Aug p 48, 1971 Apr p 26, 1972 Jan p 58, Nov p 39 Crewther, W G, 1969 Aug. p 90 Crick, F H C, 1953 Sept p 105, 1954 July p 59, Oct p 49, 1955 Oct p 70, 71, 74, 1956 Mar p 42, Apr p 68, May p 62, Oct p 88, 90, Nov p 53, 1957 Sept p 182, 188, 192, 1958 Jan p 68, Mar p 122, Apr p 50, June p 37, Nov p 54, 1959 Dec p 56, 58, 59, 1961 May p 121, Aug. p 64, Sept p 76 80. 1962 Jan p 72, 83, 84, Feb p 42, Vlar p 69. July p 109, 110, Aug. p 53, Dec p 66, 1963

Jan p 48, Mar p 80, 86, 89, Dec p 44, 1964 May p 51, Oct p 47, 1965 Aug p 75, 1966 Jan p 37, Oct p 55, Dec p 34, 1967 May p 80, 81, Nov p 28, 1968 Aug p 43, Oct p 64, 70, Dec p 49, 1969 Aug p 93, 94, Dec p 49, 1970 Nov p 44, 1972 Jan p 25, 26, Dec p 84, 86, 88-91, 1973 Oct p 51, 1975 Nov p 37, 1978 Jan p 59, 61 Criddle, Richard S , 1964 Jan p 68, 73, 1968 Feb p 39 Crikelair, George F, 51 Jan p 30 Crile, George W, 1948 Aug p 47, 1976 Jan p 94 Crimp, Paul, 1951 July p 62 Crismon, J M, 1952 Feb p 56 Crisp, D J, 1970 Aug p 87 Cristina, Grand Duchess, 1949 Aug p 46 Criswell, David R, 1976 Mar p 6 Critchfield, Charles, 1950 Jan p 43 Critchley, Macdonald, 1970 Mar p 67 Critoph, E, 1975 July p 45 Crittenden, E. C., 1955 Mar p 52 Croce, Carlo M., 1978 Feb p 117 Crocé-Spinelli, J E, 1952 Jan p 68, 70, 72, 1955 Dec p 59, 65 Crockcraft, John, Sir, 1958 Nov p 52 Crockcroft, John, Sir, 1948 June p 29, 1949 Nov p 43, 1950 Sept p 30, 1952 Jan p 38, 1955 Oct p 31, 33, 1958 Mar p 68, 1967 Nov p 28, 1970 Aug p 24 Crocker, A, 1965 Apr p 58 Crocker, Ernest C, 1952 Mar p 29, 30 Crockett, Ivory, 1976 June p 110 Croesus, 1961 June p 124, 129 Crofts, A R, 1972 Feb p 34 Croker, Byron, 1973 June p 91 Crombie, J M, 1971 Jan p 98 Crompton, Samuel, 1972 Dec p 51 Cromwell, Oliver, 1965 Sept p 68, 1967 Aug p 97, 1976 Oct p 120 Cromwell, Stephen, 1977 Feb p 81 Cromwell, Townsend, 1961 Apr p 105 108 Croneis, Carey, 1953 May p 54 Cronin, James W, 1962 Aug p 42, 1964 Sept p 82, Dec p 62, 1965 Apr p 56, Dec p 29 32, 34, 36, 1967 Mar p 50, 1969 Oct p 90 Cronin, John, 1972 June p 43 Cronkite, Eugene P, 1961 Feb p 62, 63 1963 Aug p 106 Cronly-Dillon, John, 1973 Feb p 34 Cronstedt, Baron, 1959 Jan p 85 Crook, John, 1971 June p 117 Crook, R Jr, 1972 July p 51 Crookes, William, Sir, 1950 Feb p 53, May p 21, 22, Oct p 31, 32, 1951 Nov p 29 1956 Nov p 93, 94, 1957 June p 100, 101 Dec p 104, 1966 Aug p 89, 91-93 1970 Sept p 141, 1971 May p 86 1972 Feb p 63 1974 Mar p 93, 94, 1977 Mar p 81 1978 June p Crosby, John 1951 Jan p 27 Crosby Roy, 1948 Oct p 10 11 Cross Judson, 1958 Apr p 64 Cross, Kenneth W. 1977 June p 105 Cross, Lloyd, 1976 Oct p 95 Crosse, Mary, 1955 Dec p 44 1977 June p 103 Crothers, Donald M. 1974 Aug. p 85 Crouch, Marshall F. 1965 Oct p 35 Crough, Tom, 1977 Aug p 67 Crouse, William H. 1949 Dec p 52 53 Crow, Horace E., 1956 July p 50 Crow, James F. 1957 Aug. p. 57, 1959 Sept. p. 93, 1966 Nov. p. 65, 1963 June. p. 16 Crow, Jim, 1949 May p. 13 Crose John H. 1971 Dec p 30

Crose, 5 J. 1350 Oct p 19

Crowell, John C., 1968 Apr. p. 61. Crowell, Sears, 1957 Jan. p. 68. Crowle, Alfred J., 1960 Apr. p. 129; 1963 Jan. p. 119. Crowley, J., 1949 Feb. p. 33. Crowther, J. A., 1959 Sept. p. 95. Crowther, J. G., 1949 Apr. p. 27. Croze, Harvey, 1975 Aug. p. 58. Cruikshank, Dale P., 1975 Jan. p. 28; Sept. p. 146, 147. Crump, Robin, 1972 July p. 95, 97. Crumpton, Michael, 1977 Oct. p. 104. Crutcher, Richard, 1974 May p. 112. Crutchfield, Richard L., 1948 Dec. p. 10, 11. Crutchfield, Richard S., 1958 Sept. p. 151. Cruveilhier, Jean, 1970 July p. 40. Cruxent, José M., 1967 July p. 96; Nov. p. 45, Cruze, Wendell, 1950 July p. 16. Csapó, Árpád, 1950 Mar. p. 55. Cuadros, Alvaro, 1974 Sept. p. 59. Cuatrecasas, Pedro, 1971 Mar. p. 33; 1972 Oct. p. 73, 75; 1977 Mar. p. 45. Cuauhtémoc, 1966 Oct. p. 24. Cubbit, William, Sir, 1971 Oct. p. 100. Cubitto, John, 1976 Apr. p. 88. Cudaback, David D., 1968 Dec. p. 42. Cueto, Cipriano Jr., 1956 Feb. p. 49. Cuff, Frank B. Jr., 1960 July p. 65; 1961 Oct. p. 109. Cuff, K. F., 1964 June p. 75. Cuidad Guayana Municipal Housing Institute, 1965 Sept. p. 129. Culhane, J. Leonard, 1975 Dec. p. 38; 1978 Jan. p. 82. Cullen, Esther, 1958 Dec. p. 70, 71; 1960 Dec. p. 118, 124. Culler, Glen, 1966 Sept. p. 170, 172. Culligan, G., 1965 Dec. p. 31. Cullis, Ann F., 1964 Nov. p. 71. Cullity, B. D., 1957 May p. 103. Culpeper, Nicholas, 1973 Sept. p. 103. Cumming, Gordon, 1975 July p. 96. Cummings, Byron, 1951 Feb. p. 18. Cummins, Harold, 1969 Dec. p. 73, 83. Cummins, Herman Z., 1968 Sept. p. 124 Cummins, J. J., 1967 Jan. p. 37. Cummins, Joseph T., 1961 Dec. p. 68. Cummins, Peter, 1975 Nov. p. 42. Cummins, William A., 1978 Jan. p. 69. Cumont, Franz, 1962 Feb. p. 86 Cunha, Tony J., 1966 June p. 94 Cunningham, Bruce A., 1977 Oct. p. 96 Cunningham, Burris B., 1950 Apr p 47; 1963 Apr p 70. Cunningham, Christopher, 1974 Dec. p. 40 Cunningham, Glen, 1976 June p. 114 Cunningham, W. J., 1956 May p. 66 Cuppy, Will, 1977 Oct. p 81 Curie Foundation, 1977 Apr. p. 47 Cune, Jacques, 1949 Dec. p. 46 Curic, Marie, 1949 Mar p 29, Dec. p. 13; 1950 Apr p 47, Sept p. 29, 1958 Feb p. 76; 1959 Sept p 82, 176, 1963 Dec. p 64, 1966 Aug p 89, 93; 1967 Nov p 26, 30, 1972 Dec. p Curic, Pierre, 1949 Mar p. 29, Dec. p. 13, 46, 1950 Apr p 47, Sept p 29, 1955 Aug p 35; 1959 Sept p 82, 176, 1960 Aug p. 92, 93, 1967 Aug p 95, Sept p 222, 224, Nov p 26, 1970 Dec p 40, 1977 Aug p 60 Curley Francis, 1952 Feb p 64 Curbn, George 1 , 1971 Aug p 21 Curren, Edward G. 194) Oct. p. 28 Cutott, David, 1961 Dec. p. 91

Currie, D. G., 1970 Mar. p. 38. Curry, Stephen M., 1977 Apr. p. 60. Curtin, Philip D., 1974 Sept. p. 97. Curtis, Garniss H., 1960 May p. 95; 1961 Sept. p. 86; 1962 May p. 78; 1963 Feb. p. 69; 1967 Feb. p. 51; 1969 June p. 34; 1974 Aug. p. 50; 1976 Dec. p. 118. Curtis, H. J., 1951 Apr. p. 67; 1952 Nov. p. 61; 1958 Dec. p. 84, 85. Curtis, Heber D., 1973 Dec. p. 39. Curtis, Howard J., 1970 Aug. p. 71, 81. Curtis, W. C., 1959 Jan. p. 122. Curtiss, Roy III, 1977 May p. 54. Curtiss-Wright Corporation, 1953 Oct. p. 39; 1960 Aug. p. 46; 1972 Aug. p. 16, 19, 22. Curtius, Theodor, 1953 July p. 30. Curzon, Geoffrey, 1968 May p. 111. Cushing, Harvey, 1948 May p. 25; Oct. p. 34; 1950 Feb. p. 44; Oct. p. 19; 1957 Jan. p. 73. Cushny, Arthur, 1953 Jan. p. 41, 42; 1957 Jan. p. 77; 1965 June p. 115. Custers, J. F. H., 1965 May p. 40. Cutbush, Marie, 1952 May p. 42. Cuthbert of Northumbria, Saint, 1960 Nov. p. 162. Cutler, Elliott C., 1950 Jan. p. 17; 1960 Feb. p. 79. Cutler, Richard L., 1958 Aug. p. 52. Cutright, Phillips, 1972 May p. 50. Cutts, J. A., 1973 Jan. p. 49. Cuvier, Georges, Baron, 1948 July p. 16; 1949 July p. 48, 49, 51; 1963 Feb. p. 76, 77, 91; 1964 July p. 54, 59; 1973 Feb. p. 36. Cuzin, François, 1965 Apr. p. 39 Cuzzi, Jeffrey, 1976 Mar. p. 51, 54. Cynader, Max, 1977 Jan. p. 71. Cyprus Geological Survey, 1973 July p. 91. Cyril of Alexandria, Saint, 1964 Feb. p. 54; 1968 May p. 37. Cyrus, the Great, 1959 July p. 109; 1961 June p. Czapski, Gideon, 1967 Feb. p. 80. Czech Institute of Industrial Hygiene, 1963 Apr. p. 106. Czechoslovak Academy of Science, 1964 Dec. p. 76. Czechoslovak Academy of Sciences Institute of Virology, 1977 Dec. p. 101. Czechoslovak National Government, 1977 Jan. p. 23, 26. Czerny, A., 1954 Dec. p. 46. Czerny, Marianus, 1967 Feb. p. 101. Czolgosz, Leon F., 1963 Mar. p. 121-123, 129.

D

d' for names beginning thus, not listed here, see

second element e.g., for d'Alembert, Jean le Rond, see Alembert, Jean le Rond d'.

D. K. Ivanovsky Institute of Virology, 1977
Dec. p. 103

D. S. Kennedy & Co., 1956 Oct. p. 58.

da Gama, Vasco, 1958 Oct. p. 66; 1960 Apr.
p. 158, 1963 Sept. p. 52; 1969 Sept. p. 62;
1970 Aug. p. 94.

Da Grosa, John "Ox", 1952 Oct. p. 46

Da Gue, Michael G., 1977 July p. 105

da Vinci, Leenardo, see Leonardo da Vinci
Dabye, Peter J. W., 1969 July p. 77.
Dacey, George C., 1973 Aug. p. 50

DaCosta, Jacob M., 1969 Feb. p. 69, 70.

Daddano, Ermho Q., 1966 Dec. p. 57; 1969 Oct.
p. 46, 1970 Feb. p. 13

Daeniker, H. U., 1954 Dec. p. 58.

Dagan et Canaan, 1977 Sept. p. 102.

D'Agostino, Oscar, 1953 Oct. p. 51; 1958 Feb. Daguerre, Louis, 1952 Nov. p. 30. Dahl, Carl S., 1974 Apr. p. 54. Dahl, Lawrence F., 1971 Oct. p. 92, 95. Dahl, Margaret M., 1976 Apr. p. 44. Dahl, Odd, 1951 Nov. p. 33; 1952 Dec. p. 36. Dahl, Ole-Johan, 1977 Sept. p. 232. Dahlberg, Gunnar, 1968 Jan. p. 22, 27; 1969 Aug. p. 33. Dahlgren, Ulric, 1977 Mar. p. 108. Dahlstrom, Annica, 1967 Feb. p. 67, 68; 1974 Feb. p. 84. Dailey, Gardner A., 1963 Nov. p. 90. Daimler, Gottlieb, 1967 Mar. p. 102; 1972 May p. 102, 107; 1973 Mar. p. 87, 88. Dainton, Frederick, Sir, 1968 May p. 49; 1972 Feb. p. 40. Dainty, J., 1962 Oct. p. 107. Dakin, Henry, 1954 Jan. p. 32. Dakin, T. W., 1948 Sept. p. 18. Dalby, David, 1977 Apr. p. 109, 110. Dale, C. E. M., 1975 Jan. p. 97. Dale, Henry, Sir, 1948 Sept. p. 48; 1949 July p. 43; Dec. p. 16; 1957 Jan. p. 79; 1958 Jan. p. 46; 1961 Sept. p. 217; 1963 Nov. p. 106; 1965 Jan. p. 56; 1967 Nov. p. 27; 1970 Dec. p. 39; 1974 June p. 59. Dale, Walter M., 1959 Sept. p. 96. Daleau, Francois, 1953 Aug. p. 32. Dalen, Gustaf, 1967 Nov. p. 26. Dales, George F., 1966 May p. 93. Dales, Samuel, 1975 May p. 24. Dalgarno, Alexander, 1974 May p. 114. Dali Museum (Cleveland), 1971 Dec. p. 63. Dali, Salvador, 1971 Dec. p. 63. Dalitz, Richard H., 1962 Jan. p. 56; 1963 Jan. Dalke, Paul, 1978 May p. 120. Dall, William H., 1958 Nov. p. 115. Dalla Valle, Joseph M., 1950 Dec. p. 50. Dalldorf, Gilbert, 1959 Jan. p. 66; Feb. p. 90. Dalrymple, G. Brent, 1963 Oct. p. 62; 1967 July p. 33; Aug. p. 40; Dec. p. 55; 1968 Apr. p. 57; Dec. p. 65. Dalta, Saswati, 1977 Feb. p. 92, 96. Dalton, Albert J., 1953 Mar. p. 29; 1964 May p. 91. Dalton, John, 1951 Mar. p. 49; 1953 Jan. p. 51; 1956 Nov. p. 93; 1957 Jan. p. 73; 1960 June p. 116; July p. 54; 1966 Sept. p. 164; 1967 May p. 128, 129; 1968 Jan. p. 117; 1974 May p. 67; 1975 Mar. p. 68. Daly, John W., 1977 Aug. p. 111. Daly, Marie M., 1961 Sept. p. 79. Daly, Patricia, 1970 Mar. p. 52. Daly, Reginald A., 1950 Sept. p. 36, 39; 1956 Aug. p. 36; 1960 Apr. p. 98. Dalziel, Ian W. D., 1977 Mar. p. 102. Dam, Henrik, 1967 Nov. p. 27. Damas, H., 1962 June p. 105. Dambara, T., 1975 May p. 19. Damdinsuren, Ts., 1963 Aug. p. 56. Damm, Arvid G., 1966 July p. 43. Damme, Karel J. van, 1965 July p. 29. Damon, Paul E., 1972 May p. 100. Dampier, William, 1953 Mar. p. 88. Dan, Katsuma, 1952 Dec. p. 32; 1953 Aug. p. 55, 56, 58, 1961 Sept. p. 103, 112; 1977 Apr. p. 86. Dana, James D., 1950 May p. 35, 40, 1976 Aug. p 49. Dana, Richard H., 1969 Sept. p. 59. Danby, Gordon T. 1962 Aug. p. 53, 1963 Mar. Danby, Robert, 1973 Oct. p. 22, 23 Dandekar, V. M., 1963 Nov. p. 35

Curren, Edward M. Jr., 1974 June p. 21

Cones, J. D., 1962 Oct. p. 68, 1975 July p. 102

Dane, Benjamin, 1967 May p 45, 52 Dane, D S, 1977 July p 46, 47 Danforth, Charles, 1950 June p 18 D'Angelo, N, 1967 July p 83 Daniel, Charles, 1963 June p 48 Daniel, Glyn E, 1971 Oct p 64 Daniel, John F, 1954 May p 72 Daniel, P M, 1956 Dec p 62 Danielli, James F, 1959 Sept p 96, 1961 Sept p 170, 1970 May p 57, 1972 Feb p 31 Daniels, E W, 1959 Sept p 100 Daniels, Farrington, 1953 May p 33, 35, Nov p 52, 1954 Sept p 116, 134, 1956 May p 55, July p 106, 1960 Jan p 82, 83 Danielsen, Edwin, 1971 Jan p 32 Danielson, Robert, 1975 Sept p 132 Danish Institute for Theoretical Physics, 1964 Mar p 86 Danish Museum of Prehistory, 1953 Oct p 85 Danish National Museum, 1953 Oct p 86, 1958 Mar p 47, 1960 Sept p 144, 1964 Apr p 97 Danish Navy, 1957 Nov p 50 Danjon, Andre-Louis, 1965 May p 29, 30, 35 Dankert, Marcello, 1969 Nov p 121 Danley, R A, 1965 May p 21 Danon, Arlette, 1976 June p 42, 44 Dansereau, Pierre, 1967 Mar p 94 Dansgaard, W, 1962 Sept p 142, 144 Dante, Alighieri, 1950 Jan p 40, May p 48, 1958 Sept p 166, 1963 Dec p 121, 1968 Feb p 108, 1969 Sept p 147, 1970 Aug p 97, 1976 Aug p 90, 99, 100, 1977 June p 128, Aug p 60 Dantzig, George B, 1954 Aug p 21, 22, 1963 Sept p 151, 1975 Dec p 50 Danysz, Marian, 1949 Jan p 50, 51, 53, 1957 Sept p 107 Darby, Abraham, 1954 Nov p 66, 1974 Aug p 95, 1977 Nov p 142 Darby, Henry C, 1978 Jan p 40 Darcy, Henri P G, 1967 Jan p 65, 66 Dareste, Camille, 1950 June p 16, 1957 Oct p 110 Darius I, 1952 July p 20, 1961 Mar p 117, 1966 July p 38, 1968 Apr p 95, 99 Darley, John M, 1968 June p 46 Darling, F Fraser, 1954 Nov p 44, 1967 Feb Darling, Samuel T, 1948 June p 13 Darlington, Cyril D, 1950 Jan p 33, Sept p 57, Nov p 38, 1953 July p 81, 1960 Aug p 139, 1971 July p 45 Darlington, Gretchen, 1974 July p 43 Darmstaedter, Frank J, 1973 Jan p 80 Darnell, James E, 1963 Dec p 51 Darrow, Charles, 1967 July p 42 Darrow, Clarence, 1959 Jan p 120-123, 125, 126, 128, 1969 Feb p 19-21 Darrow, D C, 1958 Dec p 124 Darrow, Karl K , 1948 May p 51, 1951 May p 30, 1958 Jan p 52 Dart, Raymond A, 1948 May p 16, 17, 1949 Nov p 21, 24, 1953 Dec p 66, 1954 Sept p 52, 1955 Mar p 57, Aug p 50, 1957 June p 80, 1958 July p 77, 1960 May p 95, 1974 July p 109 Dartnall, H J A, 1964 Dec p 55, 1967 June p 76 Darwin, C G, 1968 July p 61, 62 Darwin, Charles, 1948 May p 16, July p 16, 17, 19, Dec p 18, 44, 1949 Mar p 40, May p 40, June p 17, Sept p 53, Nov p 21, 51, 52, 1950 Jan p 32 33, 39, Apr p 56, Sept p 58, Nov p 55, 1951 Feb p 34, June p 64, Aug p 39, 40, Oct p 24, 1952 July p 38, Aug p 61, Sept p 53, 1953 Feb p 78, Apr p 67, 68, 70, 72, May p 88, 94, Oct. p 78.

Dec p 66, 92, 1954 Jan p 72, 76, Aug p 51, Nov p 42, 1955 Feb p 70, Oct p 100, 106, 108, 110, 1956 Jan p 39, 70, Feb p 62-70, 72, May p 69, 80, June p 49, 50, 91, 92, Oct p 79, 81, 1957 Oct p 49, 1958 June p 74, Aug p 92, 94, Sept p 60, 101, 102, 108, 109, 144, 1959 Jan p 121, 122, 124, Feb p 70, 73-75, 77, 78, 80-82, 84, Mar p 48, 53, May p 60-66, June p 114, Aug p 98-106, Sept p 144, 156, Nov p 172, 175, 1960 June p 72, Sept p 69, 113, 114, 207, Oct p 116, 1961 Nov p 107, 116, 1963 Feb p 77, 81, Sept p 56, 1964 Sept p 149, 1965 Jan p 99, Apr p 46, Oct p 88, 90, 1966 Jan p 75, 1967 Oct p 95, 1968 Oct p 118, 1969 Feb p 15, 17, Sept p 160, Nov p 106, 1970 Apr p 87, 88, July p 57, Sept p 91, 1971 Apr p 72, July p 45, Nov p 104, 1972 Jan p 94, Apr p 50, Nov p 60, Dec p 91, 1973 Feb p 60, Apr p 97, Dec p 67, 1974 Mar p 84, 1975 June p 33, July p 93, Aug p 50, 60, 1976 Jan p 90, Mar p 81, Apr p 33, May p 79, Sept p 172, 1977 Aug p 60, 1978 Feb p 104, 108, 111, 114, May p 114, June p 88 Darwin, Erasmus, 1954 Oct p 72, 1955 Oct p 110, 1956 Feb p 62, 66, 1959 May p 61-65, 1963 Sept p 56, 1965 June p 112, 114 Darwin, Francis, 1956 Feb p 65 Darwin, George, Sir, 1948 May p 41, 1949 June p 19, 20, Oct p 42, 1952 Oct p 55, 1966 Oct p 32, 1968 June p 39, 1972 Apr p 50, Darwin, Susan, 1956 Feb p 62 Das, Ashok, 1978 Feb p 141 Das Gupta, M K, 1953 Mar p 50, 1964 Nov p 40, 1975 Aug p 28 Das, N N, 1972 Feb p 85 D'Asaro, L A, 1971 July p 38 Dash, William C, 1958 Oct p 56, 1961 Oct p 107, 112, 113-114, 1963 Aug p 72 Dasmann, Ray, 1960 Nov p 134 Datta, Naomi, 1967 Dec p 23, 26 Datta, Saswati, 1977 Feb p 86, 97 Datz, Sheldon, 1968 Oct p 45 Dauben, William G, 1957 Mar p 72 Daubree, Gabriel A, 1960 Apr p 101 Daughters of the American Revolution, 1960 Feb p 44 Daunt, John G, 1949 Jan p 28, 1953 Sept p 84, 1957 Nov p 98, 1958 June p 32, 33, 1973 May p 39 Dausset, Jean, 1972 June p 29 Dautrich, Fred, 1962 Nov p 93 Dauvillier, A, 1953 May p 72 Davalos, Eusebio, 1967 June p 39 Davenport, William H, 1971 May p 46 Daves, Robert J, 1956 Aug p 50 Davey, T, 1957 May p 41 David, Charles, 1974 Dec p 49 David Dunlop Observatory, 1963 Jan p 73 David, Edward E Jr., 1956 May p 128, 1961 Aug p 72, Dec p 100, 1969 Dec p 54, 1973 Mar p 44 David, Ernest, 1952 Jan p 29 David Grey Associates, Inc., 1976 Aug. p 82 David, Jacque L. 1956 May p 85 David, King, 1965 July p 84, 86, 87-89, 91, 1970 Dec p 102, 1971 Nov p 80, 1973 Oct p 35, David, Paul, 1950 June p 18 David, Peter VI, 1975 June p 90 Davidon, William, 1966 June p 52 Davidson, Ben. 1965 Sept p 187 Davidson, Eric H. 1976 Feb p 34 Davidson, Joseph J 1974 June p 51 Davidson, Julian M., 1966 Apr. p. 89 Davidson, K. S. M., 1966 Aug. p. 64

Davidson, Maurice J, 1957 Oct p 58 Davidson, Norman, 1953 May p 31, 32, 1960 May p 141, 1973 Aug p 27, 1976 Dec p 106, 112 Davidson, R G, 1977 Feb p 82 Davidson, Richard L, 1969 Apr p 28, 35 Davidson, Ronald G, 1963 Nov p 72 Davidson, Wilda, 1973 Mar p 78 Davidson, William M, 1963 July p 58, 1970 Nov p 72 Davie, Ronald, 1973 Oct p 50 Davies, A J S, 1974 Nov p 63 Davies, David R , 1961 Dec p 98, 1973 Mar p 33, 1974 July p 77, 1977 Jan p 51, 53 Davies, John, 1954 Dec p 48 Davies, John A, 1968 Mar p 96 Davies, Julian E, 1964 July p 45, 1966 Apr p 106-108, 1969 Oct p 33 Davies, M G, 1970 Jan p 44, 46 Davies, Merton E, 1970 May p 27 Davies, R D, 1957 July p 50, 1960 Nov p 94, 1968 Dec p 40, 1973 June p 34 Davies, R E, 1955 Mar p 53, 1970 Apr p 85 Davies, Robert R, 1969 Jan p 114 Davies, Roderick D, 1977 Sept p 70 Davies, W H, 1956 Oct p 129 Davis, Angela, 1974 Dec p 27 Davis, B T C, 1978 Apr p 127 Davis, Baruch J, 1972 June p 33 Davis, Bergen, 1970 Aug p 24, 25 Davis, Bernard D, 1958 Oct p 110, 1977 July p 29 Davis, D E, 1967 Jan p 81 Davis, D R, 1975 Sept p 144 Davis, D W, 1964 June p 87 Davis, Daniel, 1971 May p 82 Davis, Daniel T, 1963 July p 45 Davis, E A, 1953 Oct p 32 Davis, E Mott, 1954 Sept p 53 Davis, Edward E, 1975 July p 105 Davis, Everett, 1949 Mar p 51 Davis, Frank W, 1968 Apr p 24, 31 Davis, Frederick, 1967 Sept p 181 Davis, George D, 1970 Apr p 98 Davis, Harry M, 1949 Feb p 28, 1952 Aug p 46, 1953 Apr p 61, 1957 Feb p 73 Davis, James A., 1978 June p 44, 46 Davis, Jeff, 1952 Oct p 69 Davis, John H, 1978 June p 96 Davis, John W, 1950 Dec p 26 Davis, Joseph S, 1950 June p 14 Davis, K H, 1955 Feb p 93 Davis, Kingsley, 1963 Sept p 61, 1964 Feb p 121, 1965 Sept p 62, 1972 Oct p 47, 1974 Sept p 34 Davis, Leo, 1963 May p 89, 91, 96 July p 84 1965 Mar p 66 Davis, Leverett Jr., 1963 Jan p 73 1965 June p 46, 47, 1967 Oct p 110, 1976 May p 96 Davis, Martin 1973 Mar p 103, Nov p 85 91 Davis, Nathan, 1978 Jan p 112 Davis, R D 1954 Sept p 81 Davis, Raymond Jr. 1956 Jan p 66 1966 Fcb p 48, 1968 July p 48, 1969 July p 28 29 32 33, 36, 37, 1972 June p 53, 1973 Aug. p 33 34, 1974 Jun p 50, 1975 Aug. p 47 Sept p 47, 50, 1976 May p 52 Davis Robert J. 1969 June p 101 Davis, Roger E., 1967 June p. 119 Davis, Ronald W , 1975 July p 28 Davis Russell, 1970 Apr p 98 Davis Virgini i E., 1976 Mar p 52 Davis W D, 1962 Mar p Davis W L Jr 1963 Aug p 46 Davis, W. Marvin, 1965 Feb. p. 83 ×6 Davis, William M. 1967 Apr p. 55 Danson Gerald C, 1767 Mar p 44

Davisson, C J, 1948 May p 50-53, 1949 Dec p 14, 1953 Aug. p 44, Sept p 54, 1958 Jan p 52, 55, 1965 Mar p 32, May p 63, 1967 Nov p 27, 1971 Apr p 26 Davson, Hugh, 1972 Feb p 31 Davy, Edmund, 1949 Jan p 17 Davy, Humphrey, Sir, 1948 Aug p 49, 1949 Aug p 16, 1951 Sept p 46, 1952 Apr p 67, 1953 Oct. p 91, 92, 1957 Jan p 71, 72, 80, 1960 Mar p 145, June p 106-116, 1962 Oct p 41, 1964 Jan p 88, 1965 Jan p 89, 90, 1966 Nov p 84, 1968 Jan p 116, July p 42, 1971 Dec p 49 Davy, John, 1968 July p 42, 1973 Feb p 36 Dawber, Thomas R., 1962 July p 44 Dawes, G S, 1952 July p 73 Dawes, William R., 1968 Feb p 76 Dawkins, Michael J R., 1968 Mar p 110, 1970 Feb p 62 Dawson, Chandler R., 1964 Jan p 84 Dawson, Charles, 1954 Jan p 38 Dawson, J A, 1952 Apr p 58 Dawson, J B, 1975 Mar p 57 Dawson, Martin, 1953 Feb p 50 Dawson, R. M C, 1973 Nov p 64 Dawson, T J, 1977 Aug p 78 Dax, Marc, 1948 Oct p 29 Day, Chon, 1956 Feb p 32, 33 Day, Francis, 1963 July p 102 Day, Hughes W, 1968 July p 21 Day, Hyam, 1968 Aug p 93 Day, M F, 1954 Feb p 32, 35 Day, Michael, 1967 Apr p 65, 66, 1969 Sept p 102 Day, Thomas H , 1975 Aug p 59 Dayhoff, E. S., 1956 Mar p 88 Dayhoff, Margaret O, 1967 Jan p 41 Daykin, Philip N , 1975 July p 104 Dayton, Seymour, 1969 Sept p 98 Dazzo, Frank B., 1977 Mar p 70 de for names beginning thus, not listed here, see second element e g, for de Cervantes Saavedra, Miguel, sce Cervantes, Saavedra Miguel de De Bakey, Michael E., 1962 July p 39, 41, 1964 Oct p 56 De Beni, G, 1974 Oct p 79 De Blois, R W, 1960 July p 69, 71, 72 De Boer, J H. 1954 July p 38 De Carli, Paul S., 1965 Oct p 32 33 de Duve, Christian, 1961 Sept p 56, 1963 Nov p 117, 1967 Jan p 115, Nov p 62 65 1968 July p 45, 1969 July p 52, 1970 Sept p 113, 1974 July p 88, Dec p 56, 1975 Apr p 56 De Forest, Lee, 1948 Sept p 52, 53, 1950 Oct p 31, 33, , 1954 1951 Apr p Aug p 65, 67 6913, 14, 1961 Aug p 76, 1965 Mar p 92-100, 1969 Mar p 107, 109, 111 112 De Gaulle Charles, 1963 Sept p 82, 1973 Sept p 64 De Gelyer, E. L., 1948 Sept. p. 13 De Groot, A. D., 1950 Feb. p. 50 de la for names beginning thus, not listed here see second element e g, for de la Roche M see Roche, M de la de La Hire, Philippe ace La Hire Philippe de Dela Mare, Walter, 1957 Nov. p. 79 de la Four Chirles C. 1975 Nov p 102, 1976 June p 36 de la Tour L. Boy 1965 Feb p 70, 1966 Dec p. 33-35, 39, 1967 July p. 62 Delacil Cul G P 1961 Apr p 135 136 De L. 13, Howard 1971 Mar. p. 50. Deluci. Hester 1964 Jin p 73 De Micros Lea 1900 Dec p 120 1963 Min De Miever Guienard J equeline 1977 Apr

De Monbreun, W A., 1948 June p 13 de Monet, Jean B, see Lamarck, Chevaher de De Morgan, Augustus, 1954 June p 79, 81, 1962 Apr p 84, 1977 Oct p 108 De, P K, 1953 Mar p 42 De Pamphilis, M L, 1975 July p 48 De Quincey, Thomas, 1966 Nov p 132 De Robertis, Eduardo, 1977 Aug p 111 De Rosier, David, 1975 Nov p 58 De Rujula, Alvaro, 1975 Oct p 49 De, S N, 1971 Aug p 20 de Salluste, Guillaume, 1965 Apr p 46 de Saussure, Ferdinand, 1952 Apr p 84, 1972 Sept p 73 de Saussure, Nicolas, 1965 June p 65 de Saussure, Nicolas T, 1948 Aug p 26 De Shong, A Jr, 1964 Feb p 71 de Sitter, Willem, 1949 Mar p 54, Dec p 16, 1956 Sept p 137, 140, 145, 81, 1967 June p 28 de Sitter, William, 1954 Mar p 57 de Solla Price, Derek J., 1959 Apr p 62, Oct p 86, 1969 Feb p 46 De Valois, Russell, 1972 June p 97 de Vaucouleurs, Gerard, 1952 Aug p 33, 1953 May p 69, Dec p 56, 1960 Dec p 84, 1964 Jan p 33, 34, 1971 Dec p 25, 1977 Nov De Vorkin, Donald B, 1969 Nov p 62 De Vries, Adrian, 1972 Oct p 51 de Vries, Egbert, 1963 Apr p 49, 55 De Vries, Hessel, 1977 May p 85 de Vries, Hugo, 1950 Sept p 55, 58, Nov p 38, 1955 Oct p 106, 110, 1956 Oct p 79, 81, 1966 July p 88, 1968 July p 55, 1977 July p 111 De Witt, Hugh H, 1965 Nov p 110 De Witt, James B, 1970 Apr p 77 De Witt, Nicholas, 1956 Jan p 45 De Wolf Smyth, Henry, 1950 Oct p 24 Deacon, A B, 1948 Dec p 48 Deacon, David A G 1977 June p 64 Deacon G R, 1962 Sept p 124 Dean, G A, 1974 May p 69 Dean, Geoffrey, 1957 Mar p 133, 1969 July p 45, 1970 July p 40 Dean, Gordon, 1949 June p 26, July p 33, 1950 Aug p 28, Oct p 24, Dec p 26, 1951 Mar p 28, Nov p 32, 1952 Mar p 35, June p 40, 1953 Apr p 45, July p 40, Aug p 40, 1968 Feb p 22 Dean J S, 1972 May p 99 Dean Reginald S 1949 Apr p 51 Dean, Rev. 1954 Dec p 48 Dean, Robert B 1949 Aug p 20 DeAngelis, Alexander P 1975 June p 15 Dearborn John H, 1962 Sept p 202 Deardorff, Neva R 1949 June p 29 Dearman H B, 1963 July p 66, 1967 Jan p 30 Dearnaley Geoffrey 1968 Mar p 96 Dearolf Renneth 1955 May p 100 Deaver, Bascom S., 1965 Oct p 60 Deaver Bascon S Jr. 1971 Mar p 80 DeBenedetti Sergio, 1956 Oct p 93, 1960 Dec p 76 1969 Aug p 63, 1972 Nov p 104 Debenham Frank 1962 Sept p 171 DeBlois R W 1967 Sept p 231, 1969 June DeBoer J. H. 1951 June p. 19 DeBold Richard C 1966 Aug p 85 Dehs Lugene V 1959 Jun p 126 Debuissy Francis 1977 Mar p 106 Debuss Cliede A 1959 Dec p 111, 1969 ‰pt p 55 Debve, Peter J. W., 1948 Oct. p. 17, 1949 June p 48 Dec p 17 1951 Jan p 41, Oct p 28

1953 Feb p 74, 1957 Sept p 174, 90, 1961 Mar p 152, 1966 Dec p 124, 1967 Sept p 182, 183, 184, 187, 188, Nov p 25, 27, 1968 July p 63, 1969 Jan p 131, 1972 Feb p 67, 1976 July p 65, Oct p 48, 1977 Apr p 124 Decae, Andre, 1960 Nov p 97 DeCampli, William, 1978 Apr p 117 DeCarli, Leonore M, 1976 Mar p 27, 31 DeChairo, D C, 1973 Oct p 33 Decima, Arredo, 1972 Dec p 33 Decius, Emperor, 1974 Dec p 121, 121, 127 Deckers, J., 1968 Oct p 48 Declaux, Pierre E., 1949 Aug p 28 Dedekind, Julius W R., 1954 Apr p 87 Dedekind, Richard, 1973 Mar p 101 Dee, John, 1973 Apr p 87, 92 Dee, M I, 1956 Mar p 104 Deere, John, 1967 Aug. p 50 Deering, R. A., 1967 Feb p 37 Dees, James W, 1971 Aug p 84 Deets, Lee E, 1953 Dec p 31 Deevey, Edward S Jr, 1954 Feb p 89, 1958 Oct p 119, 1966 June p 112, 1970 Sept p 149 DeFalco, Ralph, 1951 July p 63 Defant, Albert, 1955 Jan p 31 Defense Plant Corporation, 1963 Sept p 230 Deffeyes, Kenneth S, 1970 Sept p 91, 1974 June p 78 Defoe, Daniel, 1964 Feb p 117 DeForest, Lee, 1954 Apr p 65, 67, 69 Degan, J W, 1951 July p 30 Degens, Egon T, 1970 Apr p 32, 1973 July p 90, 1978 May p 55 Degerli, I U, 1965 June p 58 DeHaan, Robert, 1959 Mar p 87, 91 DeHart, Arnold O, 1975 July p 62, 64 Dehmelt, H G, 1960 Oct p 74, 76-78 Deibler, W. Phillip, 1974 Apr. p. 51 Deicha, Georges, 1962 Oct p 43 Deinomenes, 1963 Dec p 110 Deitchman, Seymour, 1964 Mar p 28 Dejerine, Joseph J., 1972 Apr p 80, 81 Dekaneas, D., 1949 Aug p 24 Dekhtyar, I Ya, 1975 July p 41 del for names beginning thus, not listed here, see second element e g , for del Castillo Jose, see Castillo, Jose del Del Prete, T , 1973 Nov p 42 Del Villano, Bert, 1973 June p 91 Delabarre, E. B. A., 1964 July p. 27 Delachet, Andre, 1957 May p 99 Delacroix, Ferdinand V E., 1964 Feb p 117 DeLamater, Edward D, 1951 Oct p 23, 1953 Aug p 53 Delambre, B J, 1977 Oct p 81 Delambre, Jean B., 1968 June p. 53, 54 Delaney, Edward 1956 June p 49 Delasso, L P, 1963 Nov p 79 DeLatour, Christopher, 1975 Nov p 53 Delattre, Pierre, 1972 Sept. p. 75 Delavault, R. E., 1957 July p 46 Delay, John, 1973 Sept p 120 Delbourgo R. 1965 Mar p 53 Delbruck, M., 1950 Nov. p. 38, 39 Delbruck, M., 1948 Nov p. 47, 50, 1960 Feb p 141 142 Delbruck, Mary B., 1969 Dec. p. 48 Delbruck, Max 1949 May p. 19, 1953 Mar p 39, 1954 Dec p 64, 1956 July p 110, 1959 Oct p 106, 1962 Jan p 70, 1969 Dec p 45 1972 Dec. p. 86, 1974 July p. 32 DeLemos Robert, 1973 Apr. p. 52 Delessen Berjanin 1567 Aug. p. 55 Delfs Lleaner, 1955 Apr p 45 Delli Teel relegical University 1502 Dec

p 136 Delgado, H R, 1956 Oct p 107, 114 Delgado, Jose M, 1956 Nov p 109 Deligne, Pierre, 1977 July p 131 della for names beginning thus, not listed here, see second element e g, for della Francesca, Piero, see Francesca, Piero della Delluva, Adelaide M, 1949 Feb p 35 Delo, David M, 1949 Feb p 29 DeLong, George W, 1961 May p 91 DeLong, Mahlon, 1973 July p 99, 103 Delsarte, Jean, 1957 May p 93 Delvaille, John P, 1972 July p 73 Delwiche, C C, 1970 Sept p 137, 168, 1974 Oct p 67, 1978 Jan p 36 Demarçay, E, 1951 Nov p 29, 30 DeMarcus, Wendell C, 1968 Feb p 78 Demarque, Pierre, 1961 June p 115 Dement, William, 1957 Oct p 62, 1958 Sept p 90, 1960 Aug p 72, Nov p 85-88, 1967 Feb p 62, 65, 72, 1968 Sept p 210 Demeny, Paul, 1974 Sept p 175, 32 Demerec, Mılıslav, 1949 Aug p 34, 1950 Jan p 33, 35, 1951 Oct p 25, 1958 Aug p 48, 1964 Apr p 50 Demers, Fernie, 1975 June p 72 Demers, Pierre, 1956 May p 41 Demers, Serge, 1975 June p 72 Demetrius, Poliorcetes, 1974 Oct p 119 Demikhov, Vladimir P, 1962 Oct p 56, 1965 Nov p 39 Deming, Jean, 1953 Oct p 70 Democritus, 1948 Oct p 16, 1949 Nov p 48, 49, 1950 May p 20, 1952 Jan p 23, 1953 Sept p 52, 1967 May p 126, 129, Sept p 72, 1969 Jan p 130, 1970 May p 117, 122, 1972 June p 78, 1975 June p 62 Demosthenes, 1949 June p 42 Dempster, Arthur, 1953 Mar p 69, 74 Dempster, W J, 1957 Apr p 63, 1959 Oct p 57 Dence, Michael R, 1975 Sept p 159, 1977 Jan p 95 Dendy, Arthur, 1968 July p 108 Deneau, Gerald A, 1964 Mar p 46, 47, 52 Denenberg, Herbert S, 1973 Sept p 173 Denenberg, Victor H, 1964 Oct p 110 Denenstein, Arnold, 1970 Oct p 63 Denes, Peter B, 1969 Dec p 54 Dengate, James A, 1974 Oct p 114 Deniker, Pierre, 1973 Sept p 120 Denis, Jean, 1954 Feb p 54 Denis, Jean B, 1972 May p 75 Denison, Edward, 1967 Feb p 28 Denisse, J. F., 1955 Feb p 44 Denisyuk, Yu N, 1976 Oct p 81, 88, 92, 93 Denkewalter, Robert G, 1969 Mar p 47 Denner, Warren, 1973 Feb p 75 Dennis, Clarence, 1954 Aug p 25 Dennis, Jack B, 1966 Sept p 135 Dennis, Michael, 1967 May p 48 Denny-Brown, Derek E, 1970 Mar p 68 Densen, Paul H, 1963 Aug p 23 Densen, Paul M, 1965 Jan p 24 Denson, N M, 1954 Oct p 36, 38 Dent, Brian, 1973 July p 51 Dent, F J, 1972 Oct p 30 Dent, William A , 1960 Oct p 153 1966 Fcb p 50, Dec p 45, 48, 1972 Feb p 74 Denton, Enc. 1971 Jan p 65 Denton, Enc J, 1962 Aug p 48 Denton, George H. 1970 June p 101 Denton, Richard T. 1968 June p 19 Denver Child Research Council 1953 Oct p 65-68, 70-74 76 Denver Museum of Natural History 1966 June p 104, 110

Deol, Malkiat S, 1974 May p 53 DePackh, D, 1966 Nov p 112 DePamphilis, Melvin L, 1975 Aug p 42, 1976 Apr p 45, 46 Deraniyagala, P E P, 1965 May p 79 Derham, C J, 1964 Mar p 56, 1965 May p 31 Derjaguin, Boris V, 1960 July p 47, 1962 Apr p 114, 1969 Sept p 90, 1970 Nov p 52. 1971 Feb p 89, 1973 Sept p 66, 1975 Nov p 102, 106 Dermott, S F, 1977 Aug p 57 DeRosier, David, 1975 Nov p 41 Derry, John A, 1951 May p 34, 1966 Oct p 44 Derryberry, Mayhew, 1959 Apr p 67 Dersted, Hans C, 1958 Apr p 56 Derthick, Lawrence G, 1958 Mayol p 56 Derx, H, 1953 Mar p 41 Des Marteau, Darryl D, 1974 Aug p 48 Desaguliers, John T, 1949 May p 31, 32, 1964 Jan p 100, 101, 1971 Oct p 97, 99, 101 Desai, U D, 1976 Oct p 75 Desargues, Gerard, 1955 Jan p 82,83,85,86, 1964 Sept p 63, 64, 1971 Feb p 107 Descartes, Rene, 1949 Jan p 40, 42-45, 1950 May p 50, Aug p 32, 34, 1951 Feb p 60, June p 64, 1952 June p 57, Nov p 76, 1953 Jan p 52, Mar p 84, Sept p 110, Nov p 93, 1954 Aug p 45, 1955 June p 59, Dec p 76, 1956 June p 71, Aug p 43, 46, 1958 Apr p 56, Sept p 142, 66, 67, 1959 Oct p 160-163, 165, 166, 168, 170, 171, 173, 1960 Sept p 180, Oct p 145, 1964 May p 108, 112, 115, 116, Sept p 149, 64, 65, 69, 1965 July p 52, 1967 Dec p 116, Aug p 97, 98, 1968 May p 98, 100, Sept p 204, 205, 212, 72, 97, Nov p 71, 1970 May p 118, 1972 Aug p 84, 86, 1973 May p 92, 1975 Sept p 33, 1976 Aug p 74, 1977 Apr p 116, 118, 119 122, 126, Nov p 150 Deser, Stanley, 1977 July p 59, 1978 Feb p 137 Deshpande, V K, 1970 Feb p 71 DeSimone, John, 1974 June p 93 Deslandres, Henri A, 1969 June p 96 DeSomer, P, 1963 Oct p 46 DeSoto, Hernando, 1952 Mar p 23 Dessens, Jean, 1962 Mar p 76 Dession, George H, 1953 June p 50, 1960 Mar p 154 Dessler, Alexander J, 1963 May p 89, 1965 Mar p 68 D'Este, Augustus, Sir, 1970 July p 40 Destriau, George, 1957 Aug p 41, 42, 1967 May p 109 de The, Guy, 1973 Oct p 27, 33 Dethier, Vincent G, 1957 May p 72, 1961 May p 137-139, 1967 June p 107 Detraz, Claude, 1972 Oct p 104 Detroit City Council, 1964 Jan p 31 Detroit Edison Company, 1952 Dec p 60 1953 June p 43, July p 40, 1968 Feb p 31, 1972 Mar p 48 Detroit Electric Car Company, 1966 Oct p 40 Dettmers, Almut E., 1966 June p 97 Detweiler D K 1966 June p 100 Deunff, Jean, 1965 Jan p 52 Deuterium Corporation, 1975 Oct p 24 Deutsch, Armin J, 1962 Apr p 60 Deutsch Diana 1975 Oct p 92 Deutsch, J A 1959 Mar p 66 Deutsch Karl W., 1961 May p 84 Deutsch, Martin, 1954 Dec p 90 92 Deutsch Morton, 1962 May p 47 Deutsch, Thomas 1969 Feb p 33 Deutsches Elektronen Synchrotron, 1971 Jul, p 94 101 102 DeValois Russel L, 1964 Dec p 51

Devaux, Philippe, 1974 Mar p 32 Devey, Gilbert B, 1978 May p 98 Devinney, Edward, 1974 Dec p 42 Devlin, G E, 1961 June p 58 Devonshire, Duke of, 1955 June p 69 DeVore, Irven, 1961 June p 63, 1962 May p 138, 1973 Jan p 33 DeVries, Robert C, 1974 Aug p 69 DeWald, Horace A, 1962 Aug p 114 Dewald, J F, 1969 Nov p 32 Dewald, Robert, 1967 Feb p 80 DeWall, Richard A, 1957 Feb p 60 Dewar, James, Sir, 1949 June p 32 33 39, 1950 Sept p 34, 1956 Dec p 114 Dewar, Katherine M, 1955 June p 64, 71 Dewey, John, 1950 Sept p 80, 84, 1951 Sept p 102, 43, 1972 Mar p 30 Dewey, John F, 1972 June p 59, Nov p 51 62, 1973 July p 48, 86, Aug p 61, 1977 Mar p 102, Apr p 36 Dewey, Thomas E, 1948 Oct p 24, 1950 Nov p 12, 13, 1954 May p 34, 35 Dewhirst, D W, 1959 May p 52 DeWitt, Bryce S, 1978 Feb p 141 Dewson, James H, 1969 Jan p 80, 82 Dexter, Avery, 1950 Jan p 30 Dexter, Ralph, 1978 Apr p 142 Deyts, Simone-Antoinette, 1971 July p 65 Dezhnev, Semen, 1961 May p 89 D'Herelle, F, 1948 Nov p 47 di for names beginning thus, not listed here see second element e g, for di Castro, Nicolo sie Castro, Nicolo di Di Cara, Leo V, 1969 Apr p 50, 1970 Jan p 31 Di George, Angelo, 1969 Feb p 43 Di Marzio, Edmund A, 1966 Dec p 122 Di Mayorca, G. P., 1967 Apr. p. 32 Di Salvo, F J, 1971 Nov p 30-32 Diabetes Foundation, 1971 Oct p 16 Diamond, H, 1956 Dec p 67 Diamond, Marian C, 1965 Jan p 52 Diamond Ordnance Fuze Laboratorics 1977 Sept p 64 Diaz, Bartholomeu, 1969 Sept p 62 Diaz, Bernal, 1975 Oct p 81 Diaz, Porfirio, 1964 July p 90 Dibble, David S., 1971 June p 59 DiBerardino, Marie A., 1968 Dec p 30 Dibner Bern 1971 Feb p 101, 107 110 DiCara, Leo V, 1972 Feb p 90 Dice, Lee R , 1964 Oct p 109 Dichgans Johannes, 1974 Oct p 100 Dick, Alexander, 1975 July p 57 Dick, G W A, 1955 Mar p 62 Dick, Herbert, 1949 May p 27, 1950 July p 23 1964 Nov p 31 Dicke Robert H 1953 Dec p 43 1957 Feb p 80 1960 May p 92 Oct p 108 78 1965 July p 46 1967 Mar p 48, May p 54 June p 28 29 31 36 37, 1968 Fcb p 79 1970 Mar p 38, 41, June p 33 1971 May p 27 29, 1974 Oct p 56 Nov p 27 28 31 1975 Apr p 111 112 July p 34 1977 Jan p 39 1978 Apr p 64 69 Dickel Helene R 1964 Jin p 41 Dickens Charles 1964 Jan p 101 1971 Oct p 101 1976 July p 123 Dickerson Richard E 1961 Dec p 93 1972 July p 56 57 1974 July p 75 77 1975 Aug p 54 1977 Jan p 47 Dickey Frank H 1962 July p 92 Dickey Marguerite 1957 May p. 70 Dickie Margaret M. 1952 Sept. p. 74-1956 No- p 112 Dickinson Dale F. 1974 May p. 110-1974 Apr p 115, June p 50

Dickinson, Henry W., 1964 Jan. p. 103. Dickinson, William R., 1972 Mar. p. 30; 1973 Aug. p. 69. Dickman, Robert L., 1977 June p. 67; 1978 Apr. p. 118. Dickson, G. Q., 1968 Apr. p. 57. Dickson, James G., 1966 Mar. p. 29, 32. Dickson, M. R., 1971 Dec. p. 34. Diddens, A. N., 1973 Nov. p. 41. Diderot, Denis, 1948 Aug. p.; 1970 Sept. p. 196; 1974 Aug. p. 93, 94; 1977 Nov. p. 142. Diebold, John T., 1951 Sept. p. 58. Dieckmann, Max, 1974 Mar. p. 101. Diego, José de, 1966 Oct. p. 25. Diehl, V., 1973 Oct. p. 30. Diels, Otto, 1950 Dec. p. 27; 1967 Nov. p. 28. Dienert, Frédéric, 1965 Apr. p. 38. Dienes, A., 1973 June p. 60. Diense, A. D., 1955 Jan. p. 67. Diesel, Rudolf, 1949 Dec. p. 35; 1969 Aug. p. 108-117. Dieter, Nannielou H., 1963 June p. 104; 1965 July p. 29; 1966 Jan. p. 48; 1968 Dec. p. 38; 1971 Mar. p. 46. Dietz, Robert S., 1951 Aug. p. 26; 1952 Oct. p. 57; 1960 May p. 64; Oct. p. 103; 1961 Aug. p. 53; Nov. p. 64; 1962 Feb. p. 81; 1963 Apr. p. 98; 1968 Apr. p. 56; 1969 Aug. p. 50; Nov. p. 106; 1970 Oct. p. 30; 1971 Nov. p. 58; 1972 May p. 68; Nov. p. 64, 66; 1973 Aug. p. 65. Dietz, S., 1978 Jan p. 112. Dieudonné, Jean, 1957 May p. 94, 96, 99. Digby, L. (Miss), 1951 Apr. p. 55. DiGeorge, Angelo M., 1974 Nov. p. 61. Digges, Thomas, 1956 Sept. p. 228, 77, 79; 1973 Apr. p. 87. Digital Equipment Corporation, 1966 Sept. p. 130; 1977 Sept. p. 176, 218, 217. Dijkgraaf, Sven, 1950 Aug. p. 53; 1958 July p. Dikushin, 1957 Dec. p. 58. Dilger, William C., 1962 Jan. p. 89. Diliberto, Stephen P., 1957 May p. 63. Dill, D. Bruce, 1962 Jan. p. 104; 1965 May p. 88; 1972 Mar. p. 88. Dill, F. H., 1963 July p. 38. Dilley, K. J., 1975 Dec. p. 80. Dillinger Hüttenwerke, 1963 Dec. p. 81, 83. Dillon, J. F. Jr., 1968 June p. 22. Dilworth, Michael, 1977 Mar. p. 73. DiMaggio, Joe, 1949 Mar. p. 54. Dimond, A. E., 1954 Dec. p. 65. Dimsdale, Thomas, 1976 Jan. p. 116. Dingane, King, 1960 Apr. p. 157, 165. Dinger, Ann St. Clair, 1978 June p. 101. Dingiswayo, 1960 Apr. p. 161, 162, 166. Dingle, A. Nelson, 1967 Mar. p. 26. Dingle, Herbert, 1953 July p. 81; 1956 Dec. p. 58. Dingle, John H., 1949 Sept. p. 19; 1960 Dec. p. 100; 1967 Nov. p. 68; 1973 Sept. p. 27. Dingman, C. Wesley II, 1967 June p. 116. Dinneen, David A., 1962 June p. 72. Dinnerstein, Dorothy, 1962 Jan. p. 49. Dinsdale, M. T., 1977 Aug. p. 95. Dintzis, Howard M., 1961 Sept. p. 81; Dec. p. 109; 1963 Dec. p. 46, 49; 1964 Nov. p. 70; 1966 Nov. p. 87. Dintzis, M., 1961 June p. 81. Diocletian, Emperor, 1974 Dec. p. 121-123. Diodotus, I., 1966 Feb. p. 108, 111. Dion, Comte de, 1972 May p. 105, 108-110. Dionysius of Halicarnassus, 1962 Feb. p. 83. Diophantus, 1951 July p. 53; 1973 Nov. p. 85,

Dioscorides, 1950 Dec. p. 52; 1964 Jan. p. 79;

1966 Jan. p. 70; Nov. p. 131; 1973 Sept. p. 91;

1977 May p. 96. Dippell, Ruth V., 1950 Nov. p. 37. Dirac, P. A. M., 1948 June p. 32; Sept. p. 21, 22; 1949 June p. 29; Oct. p. 13; Nov. p. 42, 43; Dec. p. 15; 1950 Feb. p. 24; June p. 21; Sept. p. 21, 30, 41; 1951 Oct. p. 52; 1952 Feb. p. 36; 1953 Apr. p. 57; 1954 May p. 87; July p. 44; 1955 Dec. p. 46; 1956 June p. 37; 1957 July p. 74, 75, 77, 78, 79; Dec. p. 100; 1958 Sept. p. 77, 82; 1959 Mar. p. 83, 84; Apr. p. 68; July p. 78, 80, 82, 85, 86; 1960 May p. 92; Oct. p. 108; 1961 Mar. p. 100, 103, 104; July p. 51; Dec. p. 91; 1963 May p. 53; July p. 112; Dec. p. 122, 124, 131; 1964 Oct. p. 36; 1965 May p. 64, 65, 68, 70; Dec. p. 39; 1966 Apr. p. 99; 1967 Apr. p. 106; Nov. p. 27; 1968 Jan. p. 74, 80; Sept. p. 59; 1973 Oct. p. 104; 1974 Oct. p. 56; 1975 June p. 54; Oct. p. 52; 1976 Feb. p. 45, 46, 48, 49, 50, 51, 52; June p. 33, 35; 1978 Feb. p. 132. Dirichlet, P. G. L., 1954 Nov. p. 84; 1969 Mar. p. 70-72. Dirksen, Ellen R., 1974 Oct. p. 44, 48. Dirkson, Everett M., 1965 Nov. p. 24. Disney, Michael J., 1969 Mar. p. 46; 1971 Jan. p. 54; 1977 Aug. p. 32. Disney, Walt, 1951 Oct. p. 66; 1972 Sept. p. 85; 1975 Nov. p. 117. Display Technology Corporation, 1972 Mar. p. 58. Disraeli, Benjamin, 1965 Aug. p. 90. Distillation Products Industries, 1950 May p. 24. Distillers (Biochemicals) Ltd., 1962 Aug. p. 30, Distin, Henry, 1973 July p. 31. District of Columbia Narcotics Treatment Administration, 1975 Feb. p. 41. Ditchburn, R. W., 1961 June p. 72. Ditmars, Raymond, 1949 Dec. p. 54. Ditmars, Raymond L., 1957 Jan. p. 116. Dittmar, Wilhelm, 1970 Nov. p. 105. Dittmer, Howard J., 1973 May p. 48. Diver, Cyril, 1975 Aug. p. 54, 57, 57. Dix, Dorothea, 1978 Feb. p. 47, 53. Dixon, C. C., 1970 Nov. p. 87. Dixon, Frank J., 1953 Feb. p. 34; 1963 Jan. p. 127; 1973 Jan. p. 26; 1974 Feb. p. 37. Dixon, G. H., 1963 Dec. p. 72; 1968 Mar. p. 71. Dixon, H. B. F., 1961 July p. 102. Dixon, H. H., 1952 Oct. p. 79; 1963 Mar. p. 134. Dixon, J. E., 1968 May p. 30. Dixon, J. R., 1965 Dec. p. 79. Dixon, J. S., 1955 Aug. p. 50. Dixon, James P. Jr., 1963 May p. 75. Dixon, John, 1973 Feb. p. 34. Dixon, Kingsley, 1978 Feb. p. 107. Dixon, Noah M., 1957 Jan. p. 67. Dixon, Ray A., 1977 Mar. p. 81. Dixon, Wilfrid J., 1969 Sept. p. 98. Djerassi, Carl, 1955 Jan. p. 58. Djokic, Dragomir, 1977 Nov. p. 70. Dmochowski, Leon, 1960 Nov. p. 63, 71; 1964 May p. 91. Doak Aircraft Company, 1960 Aug. p. 46. Doane, B. K., 1957 Jan. p. 52. Dobelle, W. H., 1964 May p. 60; 1974 Mar. Dobelle, William, 1964 Dec. p. 56. Dobereiner, Johanna, 1971 Dec. p. 49; 1977 Mar. p. 71. Dobinson, R. W., 1973 Nov. p. 41. Dobrin, Milton B., 1961 Feb. p. 98. Dobriner, Konrad, 1953 Oct. p. 46. Dobrotin, Nikolai, 1951 May p. 36. Dobrovolskaia-Zavadskaia, Nellie, 1950 June p. 17.

Dobrzycki, Jerzy, 1966 Oct. p. 88; 1973 Dec. p. 88, 99. Dobson, Austin, 1967 Jan. p. 98. Dobson, G. M. B., 1949 Jan. p. 37. Dobson, R. L., 1965 Feb. p. 57. Dobson, Terence O., 1975 Aug. p. 59. Dobzhansky, Theodosius, 1952 Feb. p. 66; 1955 Apr. p. 74; 1959 Sept. p. 149; 1960 Sept. p. 65; 1963 May p. 75; 1970 Mar. p. 101, 102, 105; 1973 Dec. p. 24. Dochez, A. R., 1959 Jan. p. 41. Dock, William, 1964 Aug. p. 56. Doctor, B. P., 1966 Feb. p. 37. Dodd, Katharine, 1949 Nov. p. 51. Dodd, Thomas J., 1961 Aug. p. 60. Dodds, Harold, 1954 Mar. p. 32. Dodge, Fred, 1964 Sept. p. 151. Dodge, Frederick A. Jr., 1972 June p. 96. Dodge, Raymond, 1968 Aug. p. 88. Dodgson, Charles L., 1948 Nov. p. 16; 1950 May p. 42; Dec. p. 22; 1952 Mar. p. 70; 1956 Mar. p. 102; Apr. p. 116-120, 122, 124, 126, 128; 1959 Sept. p. 156; 1965 Nov. p. 49; 1967 Jan. p. 102, 106; 1969 Apr. p. 37; 1971 May p. 15; 1972 July p. 38-46; 1973 Dec. p. 116; 1976 June p. 22. Dodson, C. H., 1966 Jan. p. 74. Dodson, Guy, 1969 Oct. p. 48. Dodson, Helen W., 1965 May p. 36, 37. Dodson, John D., 1963 May p. 130. Dodson, Julian J., 1973 Mar. p. 97. Dodson, Richard W., 1969 July p. 29. Dodt, Eberhardt, 1965 July p. 53. Doe, L., 1975 Apr. p. 110. Doehring, Donald R., 1977 Apr. p. 60. Doell, Richard R., 1963 Oct. p. 62; 1967 July p. 33; Aug. p. 40; Dec. p. 55; 1968 Apr. p. 57, 58; Dec. p. 65. Doerfler, Walter, 1967 Feb. p. 42. Doering, William, 1976 Feb. p. 102, 106, 108, Doering, William V. E., 1965 Dec. p. 40; 1966 Nov. p. 65. Doermann, A. H., 1953 May p. 38; 1955 July p. 78. Doetsch, Raymond N., 1975 Aug. p. 41. Doherty, David G., 1959 Aug. p. 122. Doherty, E. T., 1968 Feb. p. 44. Doherty, Kenneth W., 1977 June p. 45. Dohlman, Gösta, 1964 July p. 27. Doisy, Edward A., 1949 Dec. p. 14; 1955 Jan. p. 55; 1967 Nov. p. 25, 27. Dole, Malcolm, 1951 Jan. p. 42. Dole, Stephen H., 1975 Sept. p. 30, 31. Dole, Vincent P., 1959 Dec. p. 71; 1965 Apr. p. 64; 1968 Sept. p. 86; 1970 July p. 50. Dolginov, S., 1959 Nov. p. 88. Dolgu, Gheorghe, 1977 Nov. p. 70. Dolidze, M., 1967 Aug. p. 34. Doll, Elizabeth, 1957 Dec. p. 99. Doll, Hans, 1971 Jan. p. 95. Doll, R., 1965 Oct. p. 60; 1971 Mar. p. 80. Doll, W. Richard, 1954 Aug. p. 38; 1962 July p. 41, 44, 51; 1964 Feb. p. 66. Dollard, Charles, 1950 Dec. p. 26; 1954 Sept. p. 70. Dollard, John, 1950 Mar. p. 43. Dollfus, Audouin, 1953 May p. 66, 67, 70; 1959 May p. 52; 1967 Apr. p. 50; 1975 Sept. p. 149, Dollond, John, 1961 Jan. p. 99; 1976 Aug. p. 72. Dolmetsch, Arnold, 1951 Apr. p. 30. Dolnick, E. H., 1968 Dec. p. 56. Dolphin, John, 1963 Nov. p. 112. Domagk, Gerhard, 1949 Dec. p. 17; 1967 Nov. p. 27, 28. Dombrovsky, V. A., 1957 Mar. p. 55; 1962 Mar.

p 136 Delgado, H R, 1956 Oct p 107, 114 Delgado, Jose M, 1956 Nov p 109 Deligne, Pierre, 1977 July p 131 della for names beginning thus, not listed here, see second element e g, for della Francesca, Piero, see Francesca, Piero della Delluva, Adelaide M, 1949 Feb p 35. Delo, David M, 1949 Feb p 29 DeLong, George W, 1961 May p 91 DeLong, Mahlon, 1973 July p 99, 103 Delsarte, Jean, 1957 May p 93 Delvaille, John P, 1972 July p 73 Delwiche, C C, 1970 Sept p 137, 168, 1974 Oct p 67, 1978 Jan p 36 Demarçay, E, 1951 Nov p 29, 30 DeMarcus, Wendell C, 1968 Feb p 78 Demarque, Pierre, 1961 June p 115 Dement, William, 1957 Oct p 62, 1958 Sept p 90, 1960 Aug p 72, Nov p 85-88, 1967 Feb p 62, 65, 72, 1968 Sept p 210 Demeny, Paul, 1974 Sept p 175, 32 Demerec, Milislav, 1949 Aug p 34, 1950 Jan p 33, 35, 1951 Oct p 25, 1958 Aug p 48, 1964 Apr p 50 Demers, Fernie, 1975 June p 72 Demers, Pierre, 1956 May p 41 Demers, Serge, 1975 June p 72 Demetrius, Poliorcetes, 1974 Oct p 119 Demikhov, Vladimir P, 1962 Oct p 56, 1965 Nov p 39 Deming, Jean, 1953 Oct p 70 Democritus, 1948 Oct p 16, 1949 Nov p 48, 49, 1950 May p 20, 1952 Jan p 23, 1953 Sept p 52, 1967 May p 126, 129, Sept p 72, 1969 Jan p 130, 1970 May p 117, 122, 1972 June p 78, 1975 June p 62 Demosthenes, 1949 June p 42 Dempster, Arthur, 1953 Mar p 69, 74 Dempster, W J, 1957 Apr p 63, 1959 Oct p 57 Dence, Michael R, 1975 Sept p 159, 1977 Jan p 95 Dendy, Arthur, 1968 July p 108 Deneau, Gerald A, 1964 Mar p 46, 47, 52 Denenberg, Herbert S, 1973 Sept p 173 Denenberg, Victor H, 1964 Oct p 110 Denenstein, Arnold, 1970 Oct p 63 Denes, Peter B, 1969 Dec p 54 Dengate, James A, 1974 Oct p 114 Deniker, Pierre, 1973 Sept p 120 Denis, Jean, 1954 Feb p 54 Denis, Jean B, 1972 May p 75 Denison, Edward, 1967 Feb p 28 Denisse, J F, 1955 Feb p 44 Denisyuk, Yu N, 1976 Oct p 81, 88, 92, 93 Denkewalter, Robert G, 1969 Mar p 47 Denner, Warren, 1973 Feb p 75 Dennis, Clarence, 1954 Aug p 25 Dennis, Jack B, 1966 Sept p 135 Dennis, Michael, 1967 May p 48 Denny-Brown, Derek E., 1970 Mar p 68 Densen, Paul H, 1963 Aug p 23 Densen, Paul M, 1965 Jan p 24 Denson, N M, 1954 Oct p 36, 38 Dent, Brian, 1973 July p 51 Dent, F J, 1972 Oct p 30 Dent, William A., 1960 Oct p 153, 1966 Feb p 50. Dec p 45, 48, 1972 Feb p 74 Denton, Enc, 1971 Jan p 65 Denton, Enc J, 1962 Aug p 48 Denton, George H., 1970 June p. 101 Denton, Richard T. 1968 June p 19 Denver Child Research Council, 1953 Oct p 65-68, 70-74 76 Denver Museum of Natural History 1566 June p 104, 110

Deol, Malkiat S, 1974 May p 53 DePackh, D, 1966 Nov p 112 DePamphilis, Melvin L, 1975 Aug p 42, 1976 Apr p 45, 46 Deraniyagala, P E P, 1965 May p 79 Derham, C J, 1964 Mar p 56, 1965 May p 31 Derjaguin, Boris V, 1960 July p 47, 1962 Apr p 114, 1969 Sept p 90, 1970 Nov p 52 1971 Feb p 89, 1973 Sept p 66, 1975 Nov p 102, 106 Dermott, S F, 1977 Aug p 57 DeRosier, David, 1975 Nov p 41 Derry, John A, 1951 May p 34, 1966 Oct p 44 Derryberry, Mayhew, 1959 Apr p 67 Dersted, Hans C, 1958 Apr p 56 Derthick, Lawrence G, 1958 Mayol p 56 Derx, H, 1953 Mar p 41 Des Marteau, Darryl D, 1974 Aug p 48 Desaguliers, John T , 1949 May p 31, 32, 1964 Jan p 100, 101, 1971 Oct p 97, 99, 101 Desai, U D, 1976 Oct p 75 Desargues, Gerard, 1955 Jan p 82,83,85,86, 1964 Sept p 63, 64, 1971 Feb p 107 Descartes, Rene, 1949 Jan p 40, 42-45, 1950 May p 50, Aug p 32, 34, 1951 Feb p 60, June p 64, 1952 June p 57, Nov p 76, 1953 Jan p 52, Mar p 84, Sept p 110, Nov p 93, 1954 Aug p 45, 1955 June p 59, Dec p 76, 1956 June p 71, Aug p 43, 46, 1958 Apr p 56, Sept p 142, 66, 67, 1959 Oct p 160-163, 165, 166, 168, 170, 171, 173, 1960 Sept p 180, Oct p 145, 1964 May p 108, 112, 115, 116, Sept p 149, 64, 65, 69, 1965 July p 52, 1967 Dec p 116, Aug p 97, 98, 1968 May p 98, 100, Sept p 204, 205, 212, 72, 97, Nov p 71, 1970 May p 118, 1972 Aug p 84, 86, 1973 May p 92, 1975 Sept p 33, 1976 Aug p 74, 1977 Apr p 116, 118, 119-122, 126, Nov p 150 Deser, Stanley, 1977 July p 59, 1978 Feb p 137 Deshpande, V K, 1970 Feb p 71 DeSimone, John, 1974 June p 93 Deslandres, Henri A, 1969 June p 96 DeSomer, P, 1963 Oct p 46 DeSoto, Hernando, 1952 Mar p 23 Dessens, Jean, 1962 Mar p 76 Dession, George H, 1953 June p 50, 1960 Mar p 154 Dessler, Alexander J, 1963 May p 89, 1965 Mar p 68 D'Este, Augustus, Sir, 1970 July p 40 Destriau, George, 1957 Aug p 41, 42, 1967 May p 109 de-The, Guy, 1973 Oct p 27, 33 Dethier, Vincent G, 1957 May p 72, 1961 May p 137-139, 1967 June p 107 Detraz, Claude, 1972 Oct p 104 Detroit City Council, 1964 Jan p 31 Detroit Edison Company, 1952 Dec p 60, 1953 June p 43, July p 40, 1968 Feb p 31, 1972 Mar p 48 Detroit Electric Car Company, 1966 Oct p 40 Dettmers, Almut E., 1966 June p 97 Detweiler, D K, 1966 June p 100 Deunff, Jean, 1965 Jan p 52 Deuterium Corporation, 1975 Oct p 24 Deutsch Armin J. 1962 Apr p 60 Deutsch, Diana, 1975 Oct p 92 Deutsch, J. 1, 1959 Mar p. 66 Deutsch, Karl W. 1961 May p. 84 Deutsch, Martin, 1954 Dec p 90, 92 Deutsch, Morten, 1962 May p. 47 Deutsch Thomas 1969 Feb p 33 Deutsches Elektronen Synchrotren, 1971 Jul. p 94 101, 102 DeValois Russel L 1964 Dec p 51

Devaux, Philippe, 1974 Mar p 32 Devey, Gilbert B, 1978 May p 98 Devinney, Edward, 1974 Dec p 42 Devlin, G E, 1961 June p 58 Devonshire, Duke of, 1955 June p 69 DeVore, Irven, 1961 June p 63, 1962 May p 138, 1973 Jan p 33 DeVries, Robert C, 1974 Aug p 69 DeWald, Horace A, 1962 Aug p 114 Dewald, J F, 1969 Nov p 32 Dewald, Robert, 1967 Feb p 80 DeWall, Richard A, 1957 Feb p 60 Dewar, James, Sir, 1949 June p 32, 33, 39, 1950 Sept p 34, 1956 Dec p 114 Dewar, Katherine M, 1955 June p 64, 71 Dewey, John, 1950 Sept p 80, 84, 1951 Sept p 102, 43, 1972 Mar p 30 Dewey, John F, 1972 June p 59, Nov p 51, 62, 1973 July p 48, 86, Aug p 61, 1977 Mar p 102, Apr p 36 Dewey, Thomas E, 1948 Oct p 24, 1950 Nov p 12, 13, 1954 May p 34, 35 Dewhirst, D W, 1959 May p 52 DeWitt, Bryce S, 1978 Feb p 141 Dewson, James H, 1969 Jan p 80, 82 Dexter, Avery, 1950 Jan p 30 Dexter, Ralph, 1978 Apr p 142 Deyts, Simone Antoinette, 1971 July p 65 Dezhnev, Semen, 1961 May p 89 D'Herelle, F, 1948 Nov p 47 di for names beginning thus, not listed here, see second element e g , for di Castro, Nicolo, see Castro, Nicolo di Di Cara, Leo V, 1969 Apr p 50, 1970 Jan p 31 Di George, Angelo, 1969 Feb p 43 Di Marzio, Edmund A, 1966 Dec p 122 Di Mayorca, G P, 1967 Apr p 32 Di Salvo, F J, 1971 Nov p 30-32 Diabetes Foundation, 1971 Oct p 16 Diamond, H., 1956 Dec p 67 Diamond, Marian C, 1965 Jan p 52 Diamond Ordnance Fuze Laboratorics, 1977 Sept p 64 Diaz, Bartholomeu, 1969 Sept p 62 Diaz, Bernal, 1975 Oct p 81 Diaz, Porfirio, 1964 July p 90 Dibble, David S., 1971 June p 59 DiBerardino, Marie A, 1968 Dec p 30 Dibner Bern 1971 Feb p 101, 107, 110 DiCara, Leo V, 1972 Feb p 90 Dice, Lee R, 1964 Oct p 109 Dichgans, Johannes, 1974 Oct p 100 Dick Alexander, 1975 July p 57 Dick G W A, 1955 Mar p 62 Dick, Herbert, 1949 May p 27, 1950 July p 23 1964 Nov p 31 Dicke Robert H 1953 Dec p 43, 1957 Feb p 80, 1960 May p 92 Oct p 103 78 1965 July p 46, 1967 Mar p 48 May p 54 June p 28 29 31 36 37, 1968 f cb p 79 1970 Mar p 38, 41, June p 33 1971 May p 27 29, 1974 Oct p 56, Nov p 27 28 31, 1975 Apr p 111, 112 July p 34 1977 Jin p 39 1978 Apr p 64 69 Dickel Helene R 1964 Jin p 41 Dickens Charles 1964 Jan p 101 1971 Oct p 101, 1976 July p 123 Dickerson Richard F 1961 Dec p 98 1972 July p 56 57, 1974 July p 75 77 1975 Aug р 54 1977 Јигр 47 Dickey Frank H , 1962 Jul, p. 92 Dickey Mirbuente 1357 May p 70 Dickie, Margaret M. 1952 Sept p. 71-1956 No. p 112 Dicking Data E 184 Map 110 1874 Apr p 115 Junep #

Dublin, Louis I., 1953 Apr. p. 42; 1954 Nov. p. 88; 1956 Nov. p. 108. Dublin, Thomas D., 1974 Sept. p. 65. Dubois, Eugène, 1949 Nov. p. 21; 1953 Dec. p. 65, 69; 1966 Nov. p. 46, 47, 49; 1968 Oct. p. 118; 1970 Apr. p. 48; 1977 May p. 33. Dubois, Jean, 1965 May p. 30, 31. Dubois, Raphaē, 1950 Dec. p. 20. Dubois, Raphaël, 1962 Dec. p. 76, 79, 83, 86. Dubos, Renė J., 1949 Aug. p. 27, 28, 30, 34; 1952 Apr. p. 50; Dec. p. 29; 1955 June p. 106; 1958 Jan. p. 46; 1960 Aug. p. 138; 1963 May p. 75; 1964 Mar. p. 43; 1968 Feb. p. 84, 85; 1973 Sept. p. 84. DuBridge, Lee A., 1950 Dec. p. 26; 1951 June p. 31; 1975 Oct. p. 108, 109. Dubrin, James W., 1977 Feb. p. 93. DuBuy, H. G., 1950 Nov. p. 36, 38; 1959 Feb. Ducas, Theodore W., 1976 Feb. p. 55. Duce, Robert A., 1974 May p. 69. Duchamp, Marcel, 1977 Jan. p. 61. Duchow, Esther, 1953 Mar. p. 41. Ducke, Adolfo, 1954 Jan p. 80. Duckett, J. G., 1975 Jan. p. 93. Duckworth, D. F., 1975 June p. 92 Duclaux, Pierre E., 1959 Apr. p. 156. Ducuing, J., 1964 Apr. p. 43, 45. Duda, Marija, 1973 Feb. p. 30. Duddington, C. L., 1958 July p. 67, 68. Dudel, Joseph, 1970 July p. 61. Dudgeon, J. A., 1966 July p. 34. Dudley, C. B., 1975 July p. 57. Dudley, Dud, 1974 Aug. p. 96. Dudley, H. R., 1961 Apr. p. 62. Dudley, H. W., 1955 Feb. p. 95, 96. Dudley, Paul, 1955 Jan. p. 67. Dudrick, Stanley, 1971 May p. 51. Duelli, Peter, 1976 July p. 110. Duerre, Donald E., 1977 Feb. p. 92. Dufey, J. P., 1966 Nov. p. 64. Duff, Roger, 1954 Feb. p. 85. Duffahel, Maurice de, 1957 May p. 91. Duffey, Lowell, 1959 Mar. p. 96. Duffield, Wendall A., 1977 Aug. p. 60. Duffus, W. P. H., 1976 May p. 38. Duflot, Marcelle, 1964 Jan. p. 35. Dugal, Louis-Paul, 1954 Apr. p. 72. Dugan, Michael T., 1977 June p. 61. Duggar, B. B., 1965 July p. 79. Duggar, Benjamin M., 1949 Apr. p. 18; Aug. p. 32, 34; 1952 Apr. p. 56. Duhem, Pierre, 1973 May p. 81, 82. Duijvestijn, J. W., 1978 June p. 86, 88. Dujardin, Felix, 1956 Apr. p. 138. Dukas, Helen, 1955 July p. 69, 73. Duke, Charles M. Jr., 1972 June p. 51. Duke Power Company, 1971 Sept. p. 42. Duke University, 1957 May p. 47; 1958 Jan. p. 78; 1963 May p. 130; July p. 48; Nov. p. 113; 1964 June p. 48; Dec. p. 71; 1965 May p. 81; Aug. p. 38; 1970 May p. 92, 95; 1978 Jan. Dukleth, Gordon W., 1977 Jan. p. 47. Dulbecco, Renato, 1951 May p. 24; 1968 Nov. p. 56; 1969 Nov. p. 124; 1975 Dec. p. 48; 1978 Feb. p. 120. Dulles, John Foster, 1954 Feb. p. 44. Dulong, Pierre L., 1960 Oct. p. 158; 1967 Sept. p. 182, 183. Dumanovic, J., 1971 Jan. p. 95. Dumas, Alexandre, 1969 Dec. p. 19; 1977 Oct. p. 132. Dumas, Frédéric, 1957 June p. 61. Dumas, Jean-Baptiste-André, 1976 Mar. p. 40, Dumbleton I I 1054 Inc. - co

Dumke, W. P., 1963 July p. 38. DuMond, Jesse W. M., 1970 Oct. p. 69, 76, 77. Dumont, Allan E., 1963 June p. 90. Dunbabin, Katherine, 1978 Jan. p. 116. Dunbar, Kenneth A., 1951 Feb. p. 36. Dunbar, M. J., 1954 Dec. p. 56. Duncan, Beverly, 1957 Oct. p. 33, 37. Duncan, David D., 1956 Mar. p. 65. Duncan, Donald C., 1971 Sept. p. 66. Duncan, Garfield G., 1971 Oct. p. 14, 21. Duncan, J. C., 1973 Dec. p. 39. Duncan, Otis D., 1957 Oct. p. 33, 37. Duncan, R. A., 1972 Nov. p. 51. Duncker, H. R., 1971 Dec. p. 72, 79. Duncker, Karl, 1963 Apr. p. 120-122. Dunegan, J. C., 1955 June p. 90. Dungan, Fred, 1964 Feb. p. 67. Dungarvan, Charles, 1967 Aug p. 99. Dungey, G. W., 1956 Jan. p. 37. Dungey, James W., 1965 Mar. p. 68. Dunham, Charles L., 1959 June p. 76. Dunham, E., 1977 Aug. p. 57. Dunham, Theodore Jr., 1975 Sept. p. 74. Dunkerley, Harold B., 1963 Apr. p. 49. Dunlap, J. R., 1968 Sept. p. 113. Dunlop, John B., 1973 Mar. p. 87. Dunlop, Justin, 1976 Dec. p. 90. Dunn, D. B., 1955 July p. 78. Dunn, H. K., 1962 Apr. p. 148. Dunn, H. Searl, 1971 Sept. p. 80. Dunn, John E. Jr., 1962 July p. 41. Dunn, John J., 1970 June p. 44. Dunn, Leslie C., 1957 Mar. p. 119, 124; June p. 127; 1959 Sept. p. 139, 152; 1960 May p. 120; 1977 Oct. p. 99. Dunn, R. B., 1958 Aug. p. 35; 1962 Feb. p. 50. Dunn, Stephen P., 1957 Mar. p. 119; June p. 127. Dunnebacke, Thelma H., 1955 Sept. p. 76. Dunnill, Peter, 1966 Nov. p. 87. Dunning, Dorothy C., 1965 Apr. p. 102. Dunning, John R., 1955 Mar. p. 50; May. p. 50; 1956 Jan. p. 44; Mar. p. 49; 1957 Oct. p. 57; 1958 Feb. p. 84; Dec. p. 54. Dunnington, F. G., 1949 June p. 37, Dunn-Rankin, Peter, 1978 Jan. p. 122. Dunoyer, L., 1965 May p. 58, 60. Dunstan, William M., 1971 May p. 50. Dupasquier, Alfredo, 1975 July p. 41. Dupin, Amandine A. L., 1972 Dec. p. 91, 92. DuPont, Robert L., 1973 Oct. p. 50. Dupouy, Gaston, 1961 Apr. p. 78. Dupree, A. Hunter, 1970 Feb. p. 13. Dupree, Andrea K., 1973 Oct. p. 74; 1975 Apr. Dupree, Louis, 1951 June p. 36; 1964 Aug. p. 40. Dupuis, Marc, 1966 Dec. p. 124. Duquay, Michel A., 1973 June p. 53, 55. Duquesne Light Company, 1954 May p. 48; Dec. p. 36. Durand, John D., 1960 Mar. p. 94; 1974 Sept. Durand, Paolo, 1972 Oct. p. 72. Duran-Reynals, Francisco, 1954 June p. 71; 1960 Nov. p. 64, 67, 71. Durbin, Richard P., 1960 Dec. p. 154-156. Dürer, Albrecht, 1952 Aug. p. 65; 1959 Aug. p. 106; 1960 Sept. p. 173; 1971 June p. 95; 1974 Sept. p. 53. Durham, Carl T., 1949 Aug. p. 25; 1953 Apr. Durham, Lois J., 1960 Nov. p. 105. Durham, Monte, 1974 June p. 20, 21, 23. Durham University, 1963 Apr. p. 93. Durham, William F., 1956 Feb. p. 49 Durkheim, Emile, 1954 Mar. p. 41; Nov. p. 88,

94; 1963 July p. 68; 1967 Nov. p. 33.

Durney, B. R., 1975 Apr. p. 114. Durnford, Margaret, 1973 Mar. p. 73. Durovic, Steven, 1952 Jan. p. 40; 1963 Oct. p. 54. Dürr, Gottfried, 1975 July p. 41. Dürre, Karl, 1977 Oct. p. 112, 114. Durrer, D., 1961 Nov. p. 134. Durrer, Robert, 1968 Apr. p. 24, 27. Durrieu, L., 1972 Oct. p. 90. Durrum, Emmett L., 1951 Dec. p. 51. D'Urville, Jules S. C. D., 1962 Sept. p. 64. Duryea, Charles E., 1967 June p. 25; 1973 Mar. p. 87. Duryea, Frank, 1967 Mar. p. 107. Dus, Karl M., 1969 July p. 87. Düsseldorf Academy of Medicine, 1962 Aug. p. 111, 116. Dussik, Karl T., 1978 May p. 98. Duthie, J. J. R., 1963 Nov. p. 102. Dutky, Samson R., 1956 Aug. p. 98. Dutta, Nirmal K., 1971 Aug. p. 20. Dutton, Geoffrey, 1974 Sept. p. 35. Dutton, H. J., 1965 July p. 79. Dutton, L. P., 1974 Dec. p. 77. Dutton, Richard W., 1964 Feb. p. 61; 1973 July p. 58. Duval, Xavier, 1973 May p. 34, 36. Duverney, Joseph G., 1964 May p. 112, 114, 115. Duvernoy, Henri, 1972 Nov. p. 31. Duvigneaud, P., 1978 Jan. p. 40. Duwez, Pol, 1954 Sept. p. 117, 130; 1960 Aug. p. 72; 1964 Sept. p. 88; 1967 July p. 44. Duxbury, Thomas C., 1977 Feb. p. 30, 32, 33. Duysens, Louis N. M., 1965 July p. 79, 81; 1969 Dec. p. 58, 64; 1974 Dec. p. 82. Duyvendak, J. J. L., 1971 July p. 77. Dvorov, I. M., 1972 Jan. p. 74. Dyal, Palmer, 1970 Jan. p. 49; 1971 Aug. p. 63, Dyce, Rolf B., 1965 June p. 58; Dec. p. 40; 1968 July p. 33; 1975 Sept. p. 61. Dye, D. L., 1964 June p. 33, 34. Dyer, H. M., 1975 Feb. p. 43. Dyk, R. B., 1959 Feb. p. 51. Dyke, W. P., 1962 Mar. p. 82. Dykeman, Winston R., 1970 Sept. p. 69. Dykman, R. A., 1950 Feb. p. 25; Nov. p. 21. Dyment, J. C., 1971 July p. 38. Dymphna, Saint, 1975 Jan. p. 49. Dyson, Freeman J., 1953 Apr. p. 57; Oct. p. 96; 1955 May. p. 52; 1956 Aug. p. 29; 1966 Nov. p. 65; 1971 Sept. p. 51; 1974 July p. 53. Dyson, Robert, 1957 Oct. p. 83. Dyson-Hudson, Neville, 1969 Feb. p. 76. Dyson-Hudson, Rada, 1969 Feb. p. 76. Dziedzic, Joseph M., 1964 Apr. p. 43. Dziemian, R. L., 1958 Oct. p. 56.

E

E. Walter, 1975 Mar. p. 49.
Eadberht of Northumbria, 1976 Oct. p. 127.
Eades, Charles, 1965 Feb. p. 86.
Eadie, Robert, 1954 Aug. p. 67.
Eads, James B., 1954 Nov. p. 66.
Eady, Eric T., 1964 Mar. p. 70, 71.
Eagen, C. F., 1976 Jan. p. 61.
Eagle, Harry, 1956 Oct. p. 52; 1962 May p. 152; 1964 Aug. p. 64.
Eaker, David, 1977 Feb. p. 109.
Eardley, A. J., 1949 June p. 20.
Earhart Foundation, 1957 June p. 85.
Earl, James A., 1961 Apr. p. 75.
Earle, Wilton R., 1956 Oct. p. 51-53; 1957 Aug.

p. 44. Dome, R. B., 1950 Dec. p. 17. Domna, Julia, 1961 June p. 130. Donahoe, F. J., 1970 Nov. p. 71. Donahue, Roger P., 1971 Apr. p. 110. Donahue, Thomas M., 1977 July p. 39. Donaldson, P. E. K., 1959 Jan. p. 69. Dondes, S., 1956 Dec. p. 54. Donelson, John, 1974 June p. 50; 1976 Jan. p. 73. Donley, Ray, 1966 Dec. p. 72. Donn, Bertram, 1956 Sept. p. 113. Donn, William L., 1956 Aug. p. 50. Donne, John, 1977 June p. 121-123. Donnelly, Ignatius, 1970 Dec. p. 102. Donnelly, Richard C., 1953 June p. 50. Donner Foundation, 1957 June p. 74; 1958 July p. 47. Donner, K. O., 1961 July p. 121. Donohoe, W. T. A., 1968 Nov. p. 50. Donskoy, Mikhail, 1974 Nov. p. 52. Doob, Joseph, 1969 Mar. p. 70, 71. Doob, Leonard W., 1969 Apr. p. 38. Doohan, Mary E., 1975 Apr. p. 93. Doolittle, James H., 1964 Mar. p. 25. Doolon, Paul F., 1962 July p. 45. Doorninck, Frederick Jr. van, 1971 Aug. p. 23, Doppelmayer, Johann G., 1975 Sept. p. 23. Doppler, Christian, 1965 May p. 66, 68. Doré, Gustave, 1977 June p. 128. Dorf, Erling, 1963 Feb. p. 81. Dorfman, Albert, 1966 Dec. p. 65. Dorfman, Leon M., 1967 Feb. p. 81; 1977 July p. 98. Dorfmeister, Georg, 1949 Oct. p. 46. Doring, G., 1974 Dec. p. 82. Döring, W., 1972 Dec. p. 61, 69, 71. Dorman, H. J., 1968 Dec. p. 65; 1975 May p. 16; Nov. p. 91. Dorn, Friedrich E., 1966 Oct. p. 64. Dorn, Harold F., 1962 July p. 41; 1966 Apr. p. 48; 1967 Oct. p. 49. Dorodnitsyn, A. A., 1965 Mar. p. 105. Dorp, David A. van, 1966 Oct. p. 81; 1971 Nov. p. 87. Dorr-Oliver Corporation, 1968 Jan. p. 34. Dorsey, N. E., 1955 Aug. p. 64-66. dos for names beginning thus, not listed here, see second element e.g., for dos Santos, Reynaldo, see: Santos, Reynaldo dos. Dotterweich, Heinz, 1972 June p. 73. Doty, Paul, 1957 Sept. p. 107, 173, 209, 211; 1960 May p. 90; 1961 May p. 125; 1964 May p. 51; 1966 Nov. p. 65; 1968 Jan. p. 40. Doty, Robert, 1963 Oct. p. 119, 120. Doty, Robert W., 1974 May p. 52. Double, D. D., 1977 July p. 82. Dougherty, J. F., 1949 July p. 45. Dougherty, Peter, 1977 Oct. p. 106. Douglas, A. E., 1955 Aug. p. 65. Douglas Aircraft Company, 1949 May p. 38; 1953 Aug. p. 64; Oct. p. 38; Nov. p. 67; 1966 Sept. p. 188. Douglas, C. G., 1965 May p. 89. Douglas, H. C., 1953 Mar. p. 41. Douglas, Herndon F., 1964 Mar. p. 43, 45. Douglas, J. W. B., 1951 Nov. p. 36,38. Douglas, James N., 1964 July p. 39, 42. Douglas, Kirk, 1964 Feb. p. 37, 38. Douglas, Lewis W., 1954 Feb. p. 47. Douglas, R. Gordon Jr., 1968 Dec. p. 56. Douglas, Stewart, 1951 Feb. p. 48. Douglas, William O., 1951 July p. 30; 1967 Nov. p. 59; 1972 Sept. p. 167. Douglass, Andrew E., 1952 Jan. p. 54-58; Dec. p. 74; 1953 May p. 67, 71; 1975 Mar. p. 49;

Sept. p. 50. Dourmashkin, Robert R., 1973 Nov. p. 62, 64. Dove, Heinrich W., 1965 Feb. p. 46; 1973 Oct. Dover Publications, Inc., 1951 Feb. p. 46. Dover, Thomas, 1977 May p. 99 Dow Chemical Company, 1951 May p. 34; 1952 Dec. p. 60; 1953 Jan. p. 32; May p. 32; July p. 40; 1963 Nov. p. 99; 1966 June p. 96; 1976 Oct. p. 60. Dow Corning Corporation, 1965 Nov. p. 43. Dowling, Harry F., 1960 Dec. p. 99, 100. Dowling, Herndon G., 1962 Nov. p. 123. Dowling, John E., 1966 Oct. p. 78, 82; 1967 June p. 72; 1969 May p. 104-106, 112; 1973 Jan. p. 72, 73; 1974 Mar. p. 36; 1978 Feb. p. 97. Dowling, W. J., 1975 Oct. p. 97, 98. Down, Langdon, 1952 Feb. p. 60; 1961 Nov. Downes, Dennis, 1968 Aug. p. 60; 1973 Apr. p. 40; 1976 June p. 105. Downs, George S., 1971 Feb. p. 30; Dec. p. 28. Downs, Wilbur G., 1955 Mar. p. 64, 65. Dows, Sutherland C., 1955 May. p. 50; 1956 Mar. p. 49, Doyle, Arthur C., 1959 Apr. p. 41. Doyle, Conan, 1949 May p. 24; 1955 Dec. p. 40. Doyle, F. P., 1961 Mar. p. 71. Doyle, J. Collin, 1962 Feb. p. 134. Doyle, Joseph T., 1962 July p. 44; 1974 Nov. p. 96. Doyle, Michael, 1974 Feb. p. 38. Doyle, William L., 1959 Jan. p. 116; 1961 Apr. p. 122; Sept. p. 172, 174. Doyle, Worthie, 1960 Aug. p. 66. Drabek, Charles M., 1969 Aug. p. 106. Drabkin, David L., 1971 Feb. p. 90. Draffan, Harry, 1972 Oct. p. 83. Drake, Charles L., 1962 May p. 124; 1963 Nov. p. 69. Drake, Edwin L., 1967 Jan. p. 62. Drake, Elizabeth, 1977 Apr. p. 22. Drake, Frank D., 1960 Jan. p. 49, 79; Feb. p. 66; Apr. p. 63; 1961 May p. 60, 61, 63, 65; 1964 July p. 41; 1968 Oct. p. 30; 1969 Mar. p. 80, 81; 1974 Jan. p. 52; 1975 May p. 80; 1977 Apr. p. 96; Dec. p. 86. Drake, Jerry F., 1974 May p. 113. Drake, Samuel, 1978 Feb. p. 68. Drake, Stillman, 1975 Mar. p. 102; June p. 100, 101, 98; 1976 May p. 111. Dransfeld, Klaus, 1972 Oct. p. 51. Drapeau, Gabriel R., 1967 May p. 91, 92. Draper, Charles S., 1957 June p. 71. Draper, Claude, 1951 Nov. p. 20. Draper, George, 1958 Feb. p. 27. Draper, Henry, 1972 Dec. p. 43. Draper, James W., 1957 Oct. p. 56. Draper, M. F., 1958 Nov. p. 71. Draper, P., 1969 Feb. p. 104. Drayton, Michael, 1977 June p. 122. Drebbel, Cornelis, 1970 Oct. p. 114, 115, 117. Drechsler, Charles, 1958 July p. 68, 69. Dreesman, Gordon R., 1977 July p. 44. Dreher, John J., 1968 Jan. p. 46. Drell, Sidney D., 1971 July p. 101; 1975 July p. 46; Oct. p. 47; 1976 Jan. p. 50; Nov. p. 27. Dreser, Heinrich, 1963 Nov. p. 99-103. Dresner, Lawrence, 1971 June p. 31. Dresser, David W., 1973 July p. 56. Drever, R., 1965 Jan. p. 108. Drew, Linda G., 1972 May p. 97. Drexhage, Karl H., 1970 Mar. p. 108; 1973 June p. 55. Dreyer, Johan L., 1956 July p. 52; Sept. p. 102; 1961 Feb. p. 52; 1964 May p. 83. Dreyer, William J., 1974 Nov. p. 69.

Dreyfuss, F., 1951 Sept. p. 58. Driesch, Hans A. E., 1957 Nov. p. 82; 1977 Ju p. 67. Drillman, Paula, 1965 Apr. p. 54. Drinker, Cecil K., 1963 June p. 82-84. Driscoll, Alfred E., 1950 May p. 27. Driscoll, R. L., 1949 May p. 26. Drobeck, Hans P., 1953 Feb. p. 92. Drobisch, Moritz W., 1961 Mar. p. 139. Dropkin, Victor, 1975 Jan. p. 87. Dros, A. A., 1965 Apr. p. 125, 127. Drouhin, G., 1973 Apr. p. 56. Droz, Bernard, 1969 Feb. p. 103; 1970 Oct. p. 84, 86. Drucker, Karl, 1951 June p. 49. Drude, Paul K., 1952 Dec. p. 43, 44, 48; 1955 July p. 71; 1963 July p. 110-113; 1967 Sept. p. 195, 196, 200, 201, 96; 1971 Nov. p. 25. Drummer, W. A., 1977 Sept. p. 64. Drummond, Edward, 1974 June p. 19. Drummond, James. E., 1963 Nov. p. 53. Drummond, Robert R., 1966 Apr. p. 60. Dryden, Hugh L., 1951 June p. 31; 1962 May p. 74; 1963 Jan. p. 60. Dryden, John, 1948 June p. 43; 1967 Dec. p. 97; 1977 June p. 122. Drysdale, George, 1954 Jan. p. 35. du for names beginning thus, not listed here, see second element e.g., for du Fay, Charles, see: Fay, Charles du. Du Bois, Cora, 1949 Aug. p. 14. Du Bois, Emil, 1956 Feb. p. 109; 1958 Mar. p. 98. Du Bois-Reymond, Emil, 1950 Feb. p. 42; 1951 Apr. p. 66, 67; Dec. p. 45; 1952 Nov. p. 57; 1960 Oct. p. 117-119, 121; 1968 June p. 84. Du Bridge, Lee A., 1969 June p. 54. Du Fay, Charles François De Cisternay, 1965 Jan. p. 82, 85. Du Pont de Nemours and Company, 1949 Jan. p. 18, 20; Apr. p. 51; 1951 Jan. p. 28; Apr. p. 34; June p. 18; Dec. p. 35; 1953 July p. 32. Du Pont de Nemours and Company., 1955 July p. 66. Du Pont de Nemours and Company, 1957 Mar. p. 42; Apr. p. 128. DU Pont de Nemours and Company, 1957 Sept. Du Pont de Nemours and Company, 1957 Sept. p. 164, 88; 1958 May p. 58; 1959 Feb. p. 68; 1962 Nov. p. 100, 109; 1966 Feb. p. 76, 77; July p. 107; 1968 Sept. p. 175. Du Pont de Nemours and Company., 1968 Oct. p. 62. Du Pont de Nemours and Company, 1973 July p. 42, 43; 1974 Oct. p. 69; 1976 Sept. p. 168; 1977 Mar. p. 80. Du Pont de Nemours and Company., 1977 Apr. p. 42, 44. Du Pont de Nemours and Company, 1977 July p. 98. Du Pont, Irénée, 1956 May p 91 du Pont, Lammot, 1971 Oct. p 100, 101, 103 Du Pont, Pierre S., 1956 May p 91 du Pré, F. K., 1965 Apr. p. 121 Du Toit, Alexander L., 1962 Sept. p. 180; 1963 Apr. p. 91, 99, 1968 Apr. p. 53, 1969 Nov p. 104, 119; 1975 Feb p 93, 95 du Vigneaud, Vincent, 1949 Feb p 33, 1953 Dec. p. 50; 1955 Dec p. 46, 1956 Sept. p. 112, 113; 1959 Aug. p. 125, 1961 June p. 140, 142, 1967 Nov. p. 23, 1963 Mar p. 74, 1972 Nov p. 27. Dubas, Rene, 1967 Feb. p. 27 Dubinin, N. P., 1950 Jan. p. 33 Dublin Institute for Advanced Studies, 1947 (ALP 11, 13, 12, 14

Mar p 34, 52-55, Apr p 38, June p 36, 37,

Sept p 29, Oct. p 11, Dec p 16, 17, 56, 1950 Jan. p 26, 43, Feb p 24, Mar p 27, Apr p 18, July p 49, Aug. p 30, Sept p 22, 24, 28-31, 41, Oct. p 44, 46, 1951 Mar p 25, Apr p 52, 53, May p 36, Sept. p 101, Oct p 57, Dec. p 45, 1952 Jan. p 23, 26, Mar p 49, 50, 51, Aug. p 45, Nov p 79, 1953 Jan. p 51, 56, Feb p 38, 84, Mar p 69, Apr p 57, 59, 60, May p 54, Aug p 50, Sept p 52, 54, 59, 78, Oct p 44, 91, 1954 Feb p 78, Mar p 57, 58, 60, Apr p 84, May p 85, Sept. p 82, Nov p 80, 83, 86, 1955 June p 31, 32, July p 68-73, Aug. p 62, Oct p 100, 101, 38, 1956 June p 38, Sept p 136, 137, 139, 140, 145, 159, 224, 79-81, Dec p 71, 1957 Feb p 102, 82, Sept. p 106, Dec p 74, 1958 Jan. p 51, 56, 57, Mar p 69, Apr p 34, 56, Sept. p 102, 144, 178, 63, 82, 1959 Apr p 70, May p 149-151, July p 86, Oct. p 160, 1960 Mar p 65, 84, Apr p 73, 75, May p 88, July p 144, Oct. p 166, Dec p 76, 1961 Mar p 96-100, 102, Dec p 84, 87, 1962 Mar p 72, Dec p 108, 1963 Feb p 134-136, 142, 47, May p 45-47, 51, 77, Oct. p 38, 40, 1964 Mar p 108, Aug. p 38, Sept. p 130-133, 68, 69, 95, Nov p 107, 114, 122, 47, 1965 Mar p 104, Apr p 119, May p 70, 71, Aug. p 52, 1966 Jan p 21, 22, Aug p 38, Nov p 109, 1967 Jan p 86, 92, 93, 95, Mar p 48, May p 129, 134, June p 28, 81, Sept. p 102, 182-184, Nov p 26, 29, 91, 92, 98, Dec p 116, 83, 1968 May p 15, 98, July p 30, Sept p 161, 53, 54, 57, 1969 Mar p 68, 69, Apr p 101, May p 30, 1970 Feb p 69, Mar p 58, June p 29, Aug. p 44, Oct. p 62, 1971 May p 27, 29, June p 71, July p 37, 94, Aug. p 99, Sept. p 51, 1972 Feb p 71, 82, May p 39, 40, 45, 46, Sept. p 75, 80, 1973 Feb p 90, May p 82, June p 43, Oct p 104, 1974 July p 54, Nov p 25, 30-32, Dec p 32, 40, 1975 June p 98, 104, Aug. p 48, Sept. p 44, Nov p 60, Dec p 50, 66, 69, 1976 Feb p 44, 49, 52, Mar p 79, Apr p 65, May p 88, Aug. p 90-94, 96-99, 1977 Jan. p 34, 75, July p 128, 1978 Feb p 126, 128, 131, 138, 141, May p 65 Einthoven, Willem, 1950 Sept. p 72, 1956 May p 126, 1961 Nov p 132, 1967 Nov p 26 Eiseley, Loren C, 1951 June p 36, 1954 Jan p 38, 1959 May p 63 Eisenberg, Evan, 1974 Feb p 70 Eisenberg, Leon, 1973 Sept. p 109, 130 Eisenberg, Shlomo, 1977 Dec p 56 Eisenbud, Merrill, 1957 Aug. p 56 Eisenhower, Dwight D. 1950 June p 15, 1953 Apr p 46, May p 47, June p 43, Aug. p 40, 1954 Feb p 43, 46, Mar p 32, 48, Apr p 44, May p 31-35, 47, 52, June p 44, Aug. p 36, 38, Sept p 71, Oct p 46, Nov p 31, 48, Dec p 52, 1955 Jan p 42, Mar p 51, Apr p 31, 34, May p 50, June p 48, Aug. p 46, Oct p 27, 33, Dec p 52, 1956 Apr p 61, May p 54, Sept p 113, Dec. p 53, 1958 Aug. p 50, Dec. p 29, 1959 Jan. p 62, Feb p 58, July p 62, Sept. p 102, Oct. p 80, 1960 Feb p 43 64, June p 80, 1961 Mar p 80, 1962 Apr p 49 50, May p 75, 1964 Oct p 27, 28 56, 1965 Mar p 28, Apr p 54, Aug p 42, 1968 Feb p 23, 1969 Aug p 27, 1970 May p 24, 1973 Mar p 44, July p 18, 1975 Oct. p 111 Eisenhower Milton S 1970 Feb p 42 Eisenman, George, 1972 Feb p 35 Lisenstaedt, Alfred 1972 May p 29 Eisenstein Reuben, 1976 May p 64

Eisenstein Sergei, 1977 June p. 128

Eisenthal, Kenneth B, 1973 June p 35 Eiserling, Fred, 1966 Dec p 38, 1967 July p 62 Eisleb, Otto, 1966 Nov p 133 Eisler, F R., 1957 July p 74 Eisner, Robert W , 1963 Dec p 98, 92 Eisner, Thomas, 1968 Apr p 109, 1969 Sept. p 102 Ekers, Ronald D, 1970 Aug. p 44 Eklund, Carl R. 1962 Sept. p 206, 208, 1964 Aug. p 68 Ekman, V Walfrid, 1969 Sept. p 79, 1970 Jan. p 117, 119, 1973 Feb p 67 Ekspong, A. G., 1967 Apr p 114 El Goresy, A, 1965 Oct p 28 El Paso Natural Gas Company, 1953 Nov p 69 Elam, James O, 1958 June p 49 Elberg, Sanford, 1953 Sept. p 84 Elder, E. Waite, 1954 Feb p 40 Elder, F R., 1957 Mar p 53 Elder, James L, 1950 June p 53 Elder, Robert L, 1971 June p 59 Elderfield, R. C, 1955 Jan. p 56 Electric Power Research Institute, 1977 July p 58 Electricite de France (EDF), 1977 Mar p 34 Electro Data Corporation, 1956 Sept. p 120 Electronic Industries Association, 1971 Oct. p 26 Electro-Optical Systems, Inc., 1961 Mar p 61 Electroprint, Inc 1972 Mar p 57 Elekessy, Eva I, 1974 May p 48 Elfeg, Bishop, 1970 Aug p 95, 96 Elford, W J, 1962 Mar p 117 Elgin, Robert L, 1973 May p 39 Elgjo, K., 1967 July p 44 Eli Lilly and Company, 1952 Sept p 74, 1955 Aug. p 50, 1961 Mar p 67, 1964 May p 93, 1971 July p 28 Elias, Luis R., 1977 June p 64 Elias, Maxim, 1951 Apr p 58 Elias, Thomas S, 1976 Nov p 111 Eliasson, Baldur, 1968 Mar p 54, Aug. p 60, Dec. p 43 Eliot, T S, 1966 May p 100, 1970 Sept. p 150 Elisha, 1957 Jan. p 79 Elizabeth I, Queen of England, 1949 Dec p 34, 1950 June p 21, 1951 Mar p 42, Oct p 65, 1952 June p 57, 1957 Oct. p 87, 1958 Feb p 29, 1961 Feb p 125, 1964 Feb p 116, 1965 Sept. p 68, 1973 Apr p 86-88, 93, 1977 Nov p 140, 146 Elizabeth II, Queen of England, 1958 Mar p 29 Elizabeth, Queen of Bohemia, 1969 July p 42. Elkins, Stanley M., 1967 Apr p 22. Ellenby, C, 1971 Dec p 33 Ellerman, Vilhelm, 1960 Nov p 64, 1972 Jan p 26, 1973 Oct. p 26 Elliker, Paul R., 1973 Nov p 50 Ellington, C P, 1975 Nov p 86 Elliot, D F, 1959 Mar p 56 Elliot, Daniel G, 1951 June p 32. Elliot, Jeffrey, 1972 Mar p 27 Elliott, Carl, 1958 Apr p 48 Elliott, D F 1962 Aug p 114 Elhott, G F, 1965 Dec. p 27 Elliott, Herb, 1976 June p 114 Elliott, J., 1971 July p 45 Elliott, Jack H., 1962 Oct p 84 Elliott, James M., 1963 Apr p 124 Elliott, T R., 1974 June p 59 Ellis, Charles A., 1951 Sept. p. 54 Ellis, Frank W, 1952 June p 34 Ellis, Havelock, 1958 June p 81, 1964 Apr p 32 Ellis, John. 1976 May p. 107 Ellis, Thomas O, 1966 Sept p 95

Ellison, M A, 1951 Dec. p 20 Ellison, Solon A., 1954 Apr p 52 Ells, S C, 1949 May p 53 Ellsberg, Daniel, 1972 Aug. p 44 Ellsworth, Harris, 1958 Feb p 40 Ellsworth, Lincoln, 1962 Sept. p 64 Ellsworth, Phoebe C, 1972 May p 52 Elmadjian, Fred, 1949 July p 44, 1956 Mar Elman, Robert, 1951 June p 35 Elmegreen, Bruce G, 1978 Apr p 113-117 El-Said, M A H, 1956 May p 60 Elsasser, Walter M., 1948 May p 53, 1949 Nov p 42, 1950 June p 23, 24, 1955 Sept. p 158, 160, 1957 Feb p 64, 1959 June p 78, 1960 Feb p 61; 1967 Feb p 53, May p 132, 1968 Apr p 62 Elsdale, T, 1976 Apr p 83 Elster, Julius, 1952 Mar p 56, 1953 Apr p 33, 1966 Aug. p 89, 1969 Mar p 106, 107 El-Sum, Hussein M A, 1965 June p 24, 34, 1968 Jan. p 46 Elton, Charles S, 1963 Feb p 85, 1969 Jan. p 114, 115, 1970 Sept. p 67, 1974 June p 38-Elton, Norman W, 1956 Dec p 60 Elvehjem, C A., 1948 Sept. p 38, Dec p 36, 1972 July p >6 Elvers, Douglas J, 1969 Sept. p 138 Elvey, C T, 1956 Mar p 82, 1959 Mar p 39, 1965 Dec p 58 Ely, K. R., 1977 Jan. p 53 Elyuun, V P, 1969 June p 22. Embden, Gustav, 1954 Jan. p 32, 34, 1962 June Emberson, Richard M, 1956 Oct. p 61 Embury, David, 1966 Feb p 76 Emden, Jacob R., 1975 Sept. p 43 Emeis, R., 1967 Dec p 67 Emelyanov, Vasily S, 1964 Nov p 56, 1977 Nov p 70 Emerson, Gladys A., 1951 Oct. p 33 Emerson, R. A., 1973 Jan p 45 Emerson, Ralph W, 1948 June p 27, 1949 Oct. p 31, 1951 May p 62, 1954 Apr p 69, 1958 June p 29, 1959 Aug. p 98, 106 Emerson, Robert, 1948 Aug. p 34, 1949 Sept. p 16, 1965 July p 77-79, 82, 1969 Dec p 62 Emerson, Sterling, 1949 Viay p 20 Emerson, Thomas I, 1972 Sept p 41 Emerson, Victor F, 1976 Dec p 45 Emery, Carlo, 1975 June p 33, 36 Emery, David A., 1962 Jan p 46 Emery, Earle B, 1974 May p 60 Emery, K. O, 1955 July p 36, 1969 Sept. p 210, Emery, Robert F, 1966 Nov p 40 Emery, Walter B, 1956 July p 50 EMI Ltd , 1975 Oct. p 60 Emiliani, Cesare, 1958 June p 90, 1960 May p 79, 1963 Feb p 70, 1972 June p 62 Emlen, John T Jr, 1955 Dec p 94, 1966 Oct. p 105 Emlen, Stephen T., 1975 Aug. p 102 Emmanuel, Victor, 1957 Mar p 121 Emmel, Victor E., 1951 Aug. p 56 Emmett, John L., 1968 Sept. p 132, 1973 Mar p 46, Nov p 48 Emmett, P H, 1971 Dec p 50 Emmons, Chester W. 1948 June p 15, 1951 May p 22. Emmons William H, 1956 May p 66 Emory, Kenneth, 1956 Aug. p. 59 Emory University, 1963 June p 43 Empedocles, 1948 Aug. p 41, 1950 May p 49, 1967 May p 126 1908 Oct. p 113, 1970 May p 116

p. 93; 1964 Aug. p. 63. Earling Corporation, 1959 Mar. p. 70. Earnshaw, William, 1977 Aug. p. 99. Earth Resources Technology, 1975 Nov. p. 89; 1976 Oct. p. 114; 1977 Apr. p. 31, 41. East, Edward M., 1951 Aug. p. 41, 42. East, Hinton, 1953 Mar. p. 94. East India Company, 1958 Oct. p. 66; 1974 Apr. p. 51. East Orange Board of Education, 1964 Oct. p. 58; 1966 June p. 56. East Rand Proprietary Mines, 1965 Oct. p. 38. Easterday, Bernard C., 1977 Dec. p. 101. Eastern Psychological Association, 1956 Feb. Eastern Telephone and Telegraph Company, 1955 Aug. p. 47. Eastlund, Bernard J., 1971 Feb. p. 50; June p. 21; 1972 July p. 65; 1974 Oct. p. 80. Eastman Kodak Company, 1949 Oct. p. 26; 1961 Jan. p. 103; Nov. p. 118; 1968 May p. 65, 66; Sept. p. 51; 1973 Feb. p. 18, 20; 1976 Aug. p. 79-82. Eaton, Cyrus, 1952 Jan. p. 50; 1957 Sept. p. 106. Eaton, G. Gray, 1976 Oct. p. 97. Eaton, Jeanette, 1949 Dec. p. 56. Eaton, Joseph W., 1951 June p. 38; 1954 Mar. p. 42. Eban, Abba, 1963 Sept. p. 61. Ebashi, Setsuro, 1970 Apr. p. 92; 1974 Feb. p. 59, 65; 1975 Nov. p. 38, 39, 45. Ebbecke, U., 1958 Oct. p. 43. Ebbinghaus, Hermann, 1950 Sept. p. 79; 1958 Aug. p. 68, 70, 72; 1964 Mar. p. 91; 1967 Oct. p. 120. Eberhard, P., 1963 Jan. p. 40. Eberhardt, W. H., 1966 July p. 106. Eberhart, H. D., 1967 Apr. p. 57. Eberle, Alfred M., 1954 Feb. p. 47. Eberle, Irmengarde, 1949 Dec. p. 54. Ebert, H., 1949 July p. 21, 22. Ebert, Robert H., 1956 Nov. p. 136. Ebner, Kurt E., 1969 July p. 62. Eccles, John C., Sir, 1958 Sept. p. 64; 1960 Oct. p. 119; 1963 Dec. p. 64; 1965 Jan. p. 52; 1966 May p. 105-107, 109, 110; 1967 Nov. p. 28; 1969 Jan. p. 82; 1970 July p. 57, 59; 1971 July p. 51; 1975 Jan. p. 60, 62, 63; 1978 Feb. p. 94. Eccles, Rosalind M., 1960 Oct. p. 121. Echlin, Patrick, 1966 June p. 75. Echols, Harrison, 1976 Dec. p. 109. Eck, R. E., 1966 May p. 38. Eckart, Carl, 1973 Feb. p. 65, 66. Eckels, Ann, 1959 Mar. p. 61. Eckersley, T. L., 1956 Jan. p. 35, 36. Eckert, J. Presper Jr., 1949 Apr. p. 30; 1964 Sept. p. 203; 1966 Sept. p. 67, 68. Eckert, Roger O., 1974 Oct. p. 52 Eckert, W. J., 1949 Apr. p. 33; 1959 Apr. p. 93; 1970 Mar. p. 48. Eckert-Mauchly Computer Corporation, 1949 Apr. p. 35, 38, 30. Eckhardt, Gisela M., 1964 Apr. p. 49. Eckhardt, W., 1957 May p. 46. Eckhause, M., 1966 Apr. p. 98. Eckstein, John W., 1968 Feb. p. 86. Ecole Biblique et Archéologique de Sainte-Ettienne, 1965 July p. 84. Ecological Society of America, 1970 Sept. p. 80. Ecuador National Institute of Statistics, 1973 Sept. p. 46. Eddington, Arthur, Sir, 1949 July p. 12, 15; 1950 Jan. p. 42; Sept. p. 24, 41; 1953 June p. 59, 64. 65; 1955 Nov. p. 76; 1956 Feb. p. 77; Sept. p. 88; 1958 Sept. p. 82; 1959 July p. 48, 53; 1961 Mar. p. 100; Dec. p. 91; 1962 Aug. p. 97; 1964 Mar. p. 107; June p. 38; 1967 Jan. p. 99.

100; 1968 Oct. p. 32; 1969 July p. 29; 1974 Nov. p. 30; 1975 June p. 72, 73; Sept. p. 44; Dec. p. 56; 1977 Oct. p. 49; 1978 Feb. p. 131. Eddy, Bernice E., 1960 Nov. p. 66, 67; 1961 Nov. p. 86; 1977 May p. 64. Eddy, John A., 1972 Dec. p. 43; 1977 May p. 80. Eddy, Nathan B., 1966 Nov. p. 133. Edelin, Kenneth, 1975 Feb. p. 41. Edelman, Gerald M., 1964 Dec. p. 114; 1967 Oct. p. 86; 1970 Aug. p. 34; 1971 Mar. p. 33; 1972 Dec. p. 41; 1973 June p. 85; July p. 55; Nov. p. 54; 1974 Nov. p. 65; 1976 May p. 38; 1977 Jan. p. 51, 52; June p. 108; Oct. p. 99, Edelman, Isodora S., 1949 July p. 26; 1965 June p. 37, 43; 1976 Feb. p. 35, 36. Edelson, Burton I., 1977 Feb. p. 58. Edelstein, Stephen, 1976 Feb. p. 55. Eden, Anthony, 1956 Sept. p. 111. Eden, Frederick, 1972 Feb. p. 95. Eden, Murray, 1971 Dec. p. 68. Edgar, King, 1970 July p. 18. Edgar, Larry, 1961 Mar. p. 129, 132. Edgar, R. S., 1966 Apr. p. 109; Dec. p. 35; 1967 May p. 58; July p. 62, 64. Edgerton, Harold E., 1953 Oct. p. 100; 1954 Feb. p. 65; 1958 Dec. p. 94; 1959 Oct. p. 108. Edgeworth, Francis Y., 1954 Jan. p. 74. Edidin, Michael A., 1972 June p. 32; 1974 Mar. p. 32; 1975 Oct. p. 32; 1976 May p. 31, 38, 39. Edie, Leslie C., 1963 Dec. p. 38, 40. Edinburgh Western General Hospital, 1963 July p. 60. Edison Electric Institute, 1966 Nov. p. 66; 1968 Feb. p. 24; 1969 Aug. p. 48; 1970 May p. 44; 1972 Apr. p. 87; 1973 Jan. p. 14; 1976 June p. 48; 1977 July p. 59. Edison, Thomas A., 1948 June p. 43; Sept. p. 53; 1949 Dec. p. 35, 56; 1950 May p. 22; Oct. p. 33; 1954 Apr. p. 65; 1959 Nov. p. 98-106, 108, 110, 112, 114; 1961 Aug. p. 76; 1963 Mar. p. 130; 1965 Mar. p. 93, 96; 1967 Jan. p. 62; June p. 21; 1969 Mar. p. 104, 106-112; 1972 Aug. p. 83; Dec. p. 43; 1973 Apr. p. 45; 1974 Mar. p. 84. Edlén, Bengt, 1954 June p. 46; 1958 Aug. p. 38-40; 1969 June p. 95. Edleston, R. S., 1975 Jan. p. 92. Edman, Pehr, 1961 Feb. p. 86; 1970 Aug. p. 40; 1977 Oct. p. 103 Edmonds, C. Jack, 1970 July p. 103. Edmonds, Charles J., 1962 Aug. p. 100. Edmonds, Jack, 1978 Jan. p. 105 Edmonds, Mary P., 1975 May p. 25. Edmundson, Allen B., 1961 Dec. p. 108; 1964 Nov. p. 72; 1977 Jan. p. 50, 53; Oct. p. 101. Edrich, Wolfgang, 1976 July p. 110. Edsall, John T., 1966 Nov. p. 65. Edstrom, Jan-Erik, 1961 Dec. p. 63, 64; 1964 Apr. p. 55. Education Development Center, Inc., 1975 July p. 45. Educational Facilities Laboratories, Inc., 1971 Mar. p. 20. Edward, Duke of Kent, 1965 Aug. p. 91; 1969 July p. 42, 46. Edward, Prince of Wales, 1965 Aug. p. 88, 90. Edward the Confessor, 1958 Mar. p. 42; Sept. p. 65; 1974 May p. 41, 42. Edward the Elder, 1974 May p. 41. Edwards, Anthony, 1974 Sept. p. 88. Edwards, Charles C., 1975 Feb. p. 18. Edwards, Clive A., 1969 Apr. p. 88. Edwards, D. Craiz, 1972 July p. 100. Edwards, David F. 1974 Oct. p. 57. Edwards, Dayton J., 1958 Oct. p. 37, 43. Edwards, H. T., 1955 Dec. p. 66; 1972 Mar.

p. 88. Edwards, J. Graham, 1961 Apr. p. 121. Edwards, John, 1974 Aug. p. 44. Edwards, Jonathan, 1967 July p. 103. Edwards, L. K., 1965 Sept. p. 173. Edwards, R. G., 1966 Aug. p. 73; 1970 Dec. p. 45, 50. Edwards, William H., 1959 Feb. p. 75. Eeckhout, Yves, 1963 May p. 70. Eells, Walter C., 1948 Dec. p. 46, 47. Eero Saarinen and Associates, 1968 Sept. p. 196. Efremov, Y., 1959 July p. 48. Efron, Bradley, 1977 May p. 119. Egami, F., 1966 Feb. p. 33. Egas Moniz, Antonio C. de A. F., 1949 Dec. p. 11. Ege, Richard, 1953 Feb. p. 32. Egeberg, Roger O., 1973 Sept. p. 171. Egelstaff, P. A., 1960 Apr. p. 79. Eggen, Olin J., 1952 Aug. p. 33; 1953 June p. 64; 1961 June p. 115; 1963 Feb. p. 65; 1964 Jan. p. 40; 1970 June p. 32. Eggleton, M. G., 1953 Jan. p. 48. Eggleton, Richard E., 1964 Dec. p. 41. Eggman, Luther, 1958 Oct. p. 42. Eggston, Andrew A., 1951 Aug. p. 30. Eglinton, Geoffrey, 1969 July p. 95; 1972 Oct. p. 82; 1975 Jan. p. 72. Eguchi, Goro, 1975 Aug. p. 40. Egyptian Antiquities Service, 1968 Nov. p. 64. Egyptian Department of Antiquities, 1957 July p. 106, 107. Egyptian University in Cairo, 1963 Jan. p. 128. Ehard, K. H. L., 1960 May p. 145. Ehlin, Marvin, 1968 Dec. p. 105. Ehmann, William D., 1961 Nov. p. 58. Ehnebuske, David, 1974 Apr. p. 67. Ehrenberg, Anders, 1970 Aug. p. 75. Ehrenberg, Christian G., 1969 Nov. p. 106; 1975 Aug. p. 36. Ehrenberg, Kurt, 1972 Mar. p. 60. Ehrenberg, W., 1965 Mar. p. 35; 1971 Sept. p. 182. Ehrenfest, Paul, 1955 July p. 72; 1964 Sept. p. 106. Ehrenfest, Tatiana, 1964 Sept. p. 106. Ehrenreich, Henry, 1967 Sept. p. 182, 211; 1972 Mar. p. 40. Ehrenstein, Gunther von, 1962 Sept. p. 108; 1963 Mar. p. 91; 1964 May p. 55. Ehret, Christopher, 1977 Apr. p. 110. Ehrlich, John, 1952 Apr. p. 56. Ehrlich, Paul, 1948 July p. 31; 1951 Apr. p. 60; 1960 Jan. p. 101; 1961 Jan. p. 58; Mar. p. 66; 1967 Nov. p. 26; 1973 June p. 85; Sept. p. 106; 1976 Mar. p. 114; 1977 June p. 108 Eibl-Eibesfeldt, Irenaus, 1961 Aug. p 45; 1962 Mar. p. 56. Eichelberger, Henry, 1977 Aug. p. 92. Eichelberger, Robert J., 1960 Oct p 136, 137. Eichenwald, Heinz F., 1961 Apr p 80 Eichhorn, H., 1950 Nov p 49 Eichwald, E. J., 1957 Apr p 65 Eiffel, Alexandre G. 1966 June p 84 Eiffel, Gustave, 1974 Feb p 96-100 Eigen, Manfred, 1966 Dec p 126, 1967 Feb p. 80; Dec. p. 48; 1968 Sept. p. 164, 176, 1969 May p. 30, 32, 35, 36. Eights, James, 1962 Oct p 60 Eigner, Joseph, 1960 May p. 92 Eijkman, Christiaan, 1966 July p. 57, 1967 Nov. p. 27. Eilenberg, Samuel, 1957 May p. 94 Eilmer of Wiltshire Abbey, 1961 June p 30. 1970 Aug. p. 46. 43 Einstein, Albert, 1943 June p 23, 30, 34, Aug. p. 29, Sept. p. 17; Nov. p. 24, 1947 I ch. p. 19,

Index to Proper Names

June p. 59. Euler-Chelpin, H. K. A. S. von, 1967 Nov. p. 27. Eumachia, 1958 Apr. p. 71, 73. Eumenes, 1950 Aug. p. 50. Eunatti, Abdelinajid, 1978 Jan. p. 111. Eupalinus, 1964 June p. 104-107, 109, 110, 112. Euratom, 1957 Apr. p. 68; 1969 May p. 52; 1972 July p. 75. Euripides, 1949 June p. 41; 1963 June p. 111, 113, 115; 1966 Dec. p. 99; 1972 Dec. p. 91. European Economic Community, 1963 Sept. p. 227, 240; 1965 Oct. p. 44; 1976 Sept. p. 38. European Organization for Nuclear Research (CERN), 1954 Sept. p. 74; 1955 May. p. 50; 1957 Nov. p. 57; 1958 Mar. p. 65, 73; 1960 Feb. p. 65; Aug. p. 70; Sept. p. 99; Nov. p. 97; 1961 Mar. p. 80; May p. 76; July p. 50, 55; Aug. p. 61; Nov. p. 56; 1962 May p. 74; Aug. p. 36, 52; 1963 Mar. p. 70; Dec. p. 122, 127, 129; 1964 Mar. p. 54, 86; July p. 44; Oct. p. 45, 59; 1966 Apr. p. 27; July p. 74, 77, 78; Nov. p. 113, 115, 116, 64; 1967 Feb. p. 57; Mar. p. 50; Oct. p. 48; 1968 May p. 17; Aug. p. 42; Sept. p. 84; 1970 Aug. p. 45; Nov. p. 45; 1971 Jan. p. 47; Apr. p. 49; June p. 77; Sept. p. 75; 1972 Nov. p. 49; 1973 May p. 42; Aug. p. 33, 36, 38; Nov. p. 36-44, 48; 1974 Dec. p. 115, 117; 1975 July p. 46; 1976 Apr. p. 55; Aug. p. 42; 1977 Apr. p. 58; Oct. p. 69; 1978 Feb. p. 84; June p. 71, 72. European Physical Society, 1974 Dec. p. 66. European Southern Observatory, 1976 Oct. p. 78. European Space Research Organization, 1960 Nov. p. 90; 1968 Nov. p. 92. Euthanasia Educational Council, 1973 Sept. p. 59. Evans, Alfred S., 1953 Apr. p. 29. Evans and Sutherland Computer Corp., 1970 June p. 70; 1977 Sept. p. 231, 217. Evans, Arthur, Sir, 1954 Jan. p. 44; May p. 71, 73-75; Dec. p. 72; 1955 July p. 45; 1957 Oct. p. 58; 1965 Feb. p. 102; 1968 Mar. p. 40, 42; May p. 33; 1972 Oct. p. 42; 1976 Apr. p. 56; Aug. p. 45. Evans, C. A., 1956 Apr. p. 110. Evans, Charles, 1967 Jan. p. 83. Evans, Clifford Jr., 1954 Aug. p. 29; 1962 Apr. p. 80; 1975 May p. 44. Evans, David C., 1966 Sept. p. 69, 75. Evans, David R., 1950 Dec. p. 31. Evans, E. F., 1975 Oct. p. 94. Evans, E. J., 1969 Nov. p. 36. Evans, Eva K., 1949 Dec. p. 55. Evans, Francis C., 1964 Oct. p. 110. Evans, H. C., 1970 Dec. p. 41; 1978 June p. 67. Evans, Harold G., 1977 Mar. p. 74. Evans, Herbert, 1956 Feb. p. 101. Evans, Herbert M., 1950 Oct. p. 19, 22. Evans, Howard E., 1975 Dec. p. 108. Evans, John, 1959 Nov. p. 173, 174, 176. Evans, John M. Jr., 1978 Feb. p. 64. Evans, John V., 1959 May p. 54; 1968 July p. 37. Evans, John W., 1958 Feb. p. 44; 1968 Jan. p. 102; 1973 Oct. p. 74. Evans, Lee, 1976 June p. 111. Evans, Luther H., 1953 Sept. p. 73. Evans, Margiad, 1954 June p. 61. Evans, Oliver, 1949 Dec. p. 57; 1964 Jan. p. 107; 1972 May p. 102. Evans, Ralph L., 1968 May p. 53. Evans, Ralph M., 1975 Aug. p. 69. Evans, Robert B., 1971 Sept. p. 186, 188. Evans, Robley D., 1949 May p. 28; 1967 Feb. p. 50. Evans, Thomas, 1966 Sept. p. 248, 257.

Evans, Trevor, 1974 Aug. p. 68, 69.

. - * - - .

Evans, U. R., 1956 May p. 36, 37. Evans, W. G., 1959 July p. 98. Evans, Walter, 1976 Sept. p. 40. Evans, Ward V., 1954 June p. 44; July p. 42. Evarts, Edward V., 1967 Feb. p. 70; 1974 Oct. Eve, A. S., 1966 Aug. p. 91. Eveleth, Phyllis, 1968 Jan. p. 26. Eveleth Taconite Company, 1968 Jan. p. 35. Evelyn, John, 1953 June p. 25; 1954 Dec. p. 98; 1964 Jan. p. 25. Evenari, Michael, 1956 Sept. p. 118. Everest, Frank K., 1955 Oct. p. 45. Everett, George A., 1965 May p. 48; 1966 Feb. Everett, J. E., 1968 Apr. p. 53, 59; 1970 Oct. p. 34; 1972 May p. 59. Everhart, Thomas E., 1972 Sept. p. 43. Everitt, B. J., 1972 Aug. p. 46. Evernden, Jack F., 1961 Sept. p. 86; 1962 May p. 78; 1967 Feb. p. 51; 1972 Jan. p. 15; 1976 Dec. p. 118. Evernden, John F., 1963 Feb. p. 69; June p. 73; 1969 June p. 34. Everote, Warren, 1958 Apr. p. 64. Evershed, John, 1960 Jan. p. 120; 1968 Jan. p. 102. Eversole, H. O., 1957 June p. 85. Eversole, William G., 1975 Nov. p. 106, 107. Evoy, William H., 1967 May p. 51 Ewen, Harold I., 1953 Jan. p. 21; 1955 Mar. p. 38; May p. 47; 1956 Jan. p. 48; Apr. p. 57; Oct. p. 56; 1957 July p. 48; 1959 Dec. p. 95; 1961 May p. 60, 63, 65; 1962 Nov. p. 61; 1963 June p. 94; 1965 July p. 26, 29; 1977 June p. 68. Ewig, E., 1965 Sept. p. 61. Ewing, A. W., 1970 July p. 85. Ewing, Gifford C., 1955 Jan. p. 65. Ewing, James A., 1967 Sept. p. 231, 93; 1969 Apr. p. 117. Ewing, John, 1962 Jan. p. 64; May p. 121; 1967 Aug. p. 40. Ewing, Maurice, 1950 May p. 38, 39; 1952 May p. 40; 1953 Apr. p. 50; 1955 Sept. p. 174; 1956 Aug. p. 38, 50; Dec. p. 84-90, 92, 94; 1957 Mar. p. 66; 1958 July p. 90; 1959 Mar. p. 138, 140; May p. 74; Oct. p. 82; 1960 May p. 92; Aug. p. 71; Oct. p. 100, 110, 95; 1961 Dec. p. 54, 60; 1962 Jan. p. 64; May p. 116; Sept. p. 154; 1963 Mar. p. 76; Nov. p. 140; 1965 Nov. p. 30; 1967 Aug. p. 40; 1968 Apr. p. 56; 1969 Sept. p. 127; Nov. p. 106; 1970 Jan. p. Ewing, Oscar R., 1950 Nov. p. 26. Exley, D., 1965 Dec. p. 50. Exline, Harriet, 1960 Apr. p. 122. Exner, Felix M., 1974 July p. 60. Experiment Incorporated, 1953 May p. 33, 34. Export-Import Bank, 1948 July p. 31. Exxon Corporation, 1975 Jan. p. 42; 1976 Jan. p. 56; 1977 Feb. p. 93. Exxon Nuclear Company, 1974 Oct. p. 57; 1976 Dec. p. 38. Eylar, Edwin H., 1969 Feb. p. 103. Eyraud, F. E., 1958 June p. 61. Eyring, Carl, 1951 Aug. p. 24. Eyring, Henry, 1953 May p. 30; 1954 Sept. p. 66; 1955 Nov. p. 46; 1958 Oct. p. 43. Eysenck, Hans J., 1963 Mar. p. 103. Eyzaguirre, Carlos, 1961 Sept. p. 226. Ezer, Dilhan, 1963 Oct. p. 76; 1969 July p. 36. Ezrow, David H., 1971 May p. 26.

F

F. H. McGraw and Co., 1951 Feb. p. 34. F. J. Stokes Machine Company, 1954 July p. 38. Faber, Knud, 1968 Apr. p. 71. Fabian, Andrew, 1975 Apr. p. 57; 1977 Oct. p. 49, 51. Fabing, Howard D., 1955 Oct. p. 82; 1956 June p. 55. Fabre, Jean H., 1950 July p. 53; 1958 Apr. p. 99; 1963 Apr. p. 147, 149; May p. 102; 1964 Aug. p. 20, 22; 1965 July p. 96; 1974 Apr. p. 101; July p. 28; 1976 Aug. p. 84, 87. Fabricius, Ernst, 1964 June p. 105-107, 109. Fabricius, Johannes, 1975 Sept. p. 49. Fabricus, David, 1976 June p. 100, 105. Fabri-Tek Incorporated, 1966 Sept. p. 82. Fabroni, Stephano, 1958 Aug. p. 27. Fabry, Charles, 1968 Sept. p. 77-79, 80-82. Fabry, Johannes, 1973 Aug. p. 89, 92, 94, 97. Factor, Mallory, 1973 Feb. p. 48. Factor, Robert M., 1973 Aug. p. 47. Fadlan, I., 1967 May p. 71. Faegri, Knut, 1956 Apr. p. 71. Fagan, J., 1978 Mar. p. 113. Fagan, Joseph, 1972 Mar. p. 78. Fagen, E. A., 1969 Nov. p. 31. Fager, E. W., 1948 Aug. p. 31; 1953 Nov. p. 83. Fagerlie, Joan, 1971 Aug. p. 31. Fagraeus, Astrid, 1964 Dec. p. 106. Fahey, John L., 1973 June p. 86. Fahie, J. J., 1949 Aug. p. 40. Fahlen, Theodore S., 1974 July p. 65, 67, 70. Fahmy, Myrtle, 1961 Oct. p. 86, 88. Fahra, O., 1960 Jan. p. 106; 1961 Oct. p. 86, 88. Fahraeus, Robin, 1954 Feb. p. 57. Fahrenheit, Gabriel, 1949 June p. 31; 1956 June p. 105; 1957 June p. 62; 1965 Jan. p. 38; 1967 Feb. p. 95. Fahy, Charles, 1949 Apr. p. 26. Failla, G., 1954 Dec. p. 53. Fairbairn, H. W., 1968 Apr. p. 59. Fairbank, William M., 1956 June p. 64; 1965 Oct. p. 60; Dec. p. 42; 1968 June p. 44; 1969 Jan. p. 48; 1971 Mar. p. 80. Fairbanks, Charles W., 1963 Mar. p. 124. Fairbanks, Douglas, 1972 May p. 37. Fairbanks, Grant, 1951 Feb. p. 36. Fairbanks Whitney Corporation, 1962 Dec. p. 44, 47. Fairbridge, Rhodes W., 1961 Mar. p. 82. Fairchild Camera and Instrument Corporation, 1962 Mar. p. 79; 1965 Nov. p. 68; 1966 Sept. p. 65; 1970 Feb. p. 23, 25, 26; June p. 58; 1971 Feb. p. 79; 1972 Mar. p. 42; Aug. p. 78, 78; 1973 Aug. p. 54; 1977 Sept. p. 140, 198, 64, 65, 67. Fairchild Engine and Airplane Corporation, 1951 Apr. p. 32; 1953 Dec. p. 80; 1960 Aug. Fairey Aviation Company, Ltd., 1960 Aug. p. 44. Fairmount Chemical Company, 1953 July p. 32. Faison, S. Lane, 1956 May p. 66. Faithorne, William, 1967 Aug p. 98. Fajans, Casimir, 1956 Nov. p. 102. Falbe, C. T., 1978 Jan. p. 112. Falcon, Jacques de, 1972 Aug. p. 79. Falcone, Giuseppe, 1960 Feb. p. 144. Falconer, Hugh, 1959 Nov. p. 173, 176. Falejczyk, Francis J., 1968 Aug. p. 74. Falk, G., 1958 Jan. p. 46. Falk, Sidney W., 1976 Dec. p. 93. Falk, Theodore J., 1970 Feb. p. 44. Falkenberg, Pal, 1977 Aug. p. 94. Falkenstein, Adam, 1968 May p. 32; 1978 June p. 50.

Empeiros, 1953 Jan. p. 55, 56. Enannatumma, Princess, 1957 Oct. p. 80. Encke, J. F., 1974 Feb. p. 53. Ende, H. A., 1965 Aug. p. 76. Enders, John F., 1952 Nov. p. 27; 1953 Nov. p. 54; 1954 Nov. p. 52; Dec. p. 52; 1959 Feb. p. 89; 1960 Dec. p. 90; 1961 May p. 53; 1963 May p. 74; Oct. p. 46, 47; 1964 Jan. p. 81; 1967 Nov. p. 28; 41 Enderson, James H., 1970 Apr. p. 74. Endo, Makato, 1975 Nov. p. 40. Endo, Yanuparo, 1959 July p. 127. Endroizi, Elemer, 1971 Jan. p. 27. Energy Conversion Devices, 1977 May p. 44-47. Enezib, Pharaoh, 1957 July p. 107. Eng, Robert, 1978 May p. 120. Engdahl, E. R., 1973 Mar. p. 26, 28. Engel, Albert E. J., 1968 Oct. p. 59. Engel, Bernard, 1970 Jan. p. 39. Engel, Frank L., 1963 July p. 48. Engel, Frédéric, 1965 Oct. p. 76. Engel, George L., 1972 July p. 77. Engel, Joseph H., 1971 Nov. p. 48. Engel, Leonard, 1962 Sept. p. 154. Engel, Leonhard, 1960 Feb. p. 77. Engel, Niels, 1964 Aug. p. 40. Engelbach, Reginald, 1957 July p. 116. Engelberg, Joseph, 1961 July p. 61. Engelbrecht, R. S., 1959 June p. 127. Engelhardt, V. A., 1952 Dec. p. 19; 1953 Apr. p. 90; 1961 Sept. p. 200, 202. Engelman, Donald M., 1974 June p. 50; 1976 July p. 65; Oct. p. 44. Engelmann, T. W., 1959 Oct. p. 99; 1975 Aug. Engelmann, Theodor W., 1951 Nov. p. 69; 1960 Nov. p. 106. Engels, Friedrich, 1958 Sept. p. 107, 108; 1966 Oct. p. 23. Enger, Torr, 1977 Apr. p. 26. Engineering Research Associates, 1953 May Engineering Supervision Company of New York, 1960 Apr. p. 90. Engineers Joint Council, 1956 Dec. p. 60; 1960 Aug. p. 72. England, David, 1966 June p. 97. England, L. R., 1950 Apr. p. 33. Engle, Earl T., 1951 Mar. p. 45. Englert, Edwin Jr., 1975 Jan. p. 103. Englesberg, Ellis, 1970 June p. 44. English, John P., 1962 July p. 41. English, Richard D., 1973 June p. 39. Englund, Paul T., 1968 Oct. p. 75. Engström, Arne, 1961 Dec. p. 64. Engstrom, L. H., 1972 Feb. p. 30. Ennos, A. E., 1968 Feb. p. 42. Enoch, Jay M., 1961 Dec. p. 78. Enos, John, 1967 June p. 23. Enright, James T., 1975 Feb. p. 76. Enroth-Cugell, Christina, 1974 Nov. p. 111. Ensminger, Eugene, 1966 June p. 94. Entz, Paul, 1967 July p. 108. Enzmann, E. T., 1951 Mar. p. 46. Eötvös, Joseph, Baron von Vásárosnemény, 1961 Dec. p. 84. Eötvös, Roland, Baron von, 1961 Dec. p. 84, 86, 87, 90, 92-94; 1974 Nov. p. 28, 30; 1975 July p. 34. Epel, David, 1977 Nov. p. 129. Ephemerides, 1973 Dec. p. 90. Ephrussi, Boris, 1950 Nov. p. 34; 1962 Apr. p. 108; 1969 Apr. p. 26, 28, 35; 1970 Nov. p. 27; 1974 July p. 36; 1978 Feb. p. 120. Ephrussi-Taylor, Harriett, 1951 Oct. p. 23; 1956 Nov. p. 51. Epicurus, 1948 Aug. p. 57; Oct. p. 16; 1952 Mar.

p. 62; 1967 Aug p. 98; 1970 May p. 117. Epimenides, 1962 Apr. p. 86, 88, 90, 91, 96; 1975 May p. 51. Epling, Carl C., 1950 Jan. p. 40. Epperson, Susan, 1969 Feb. p. 15-17, 19. Epps, Elizabeth, 1964 Jan. p. 40. Epstein, E., 1963 June p. 104. Epstein, Emanuel, 1976 Aug. p. 44D. Epstein, Eugene E., 1966 Dec. p. 46. Epstein, Jermiah F., 1963 May p. 126, 128. Epstein, M. A., 1973 Oct. p. 27, 30. Epstein, R. H., 1966 Apr. p. 109; Dec. p. 35; 1967 May p. 58; July p. 62, 63. Epstein, R. J., 1957 Oct. p. 56. Epstein, R. S., 1966 Dec. p. 38. Epstein, Samuel, 1958 Feb. p. 54, 56; 1972 Oct. p. 85, Epstein, William, 1975 Mar. p. 47; Aug. p. 46; Nov. p. 25. Epstein, Wolfgang, 1976 Apr. p. 44. E.R. Squibb & Sons, 1952 Apr., p. 39. Erasmus, Charles, 1956 May p. 74. Erasmus, Desiderius, 1956 Jan. p.; 1973 Apr. Erastov, E. M., 1968 Oct. p. 48. Eratosthenes, 1953 Jan. p. 50; 1956 July p. 50; 1958 Dec. p. 107, 110, 111; 1959 Oct. p. 64; 1967 Oct. p. 68; 1973 Nov. p. 91; 1976 Aug. Erbario Tropicale, 1977 May p. 104. Ercker, Lazarus, 1960 July p. 66; 1967 Sept. p. 70, 74. E.R.D.A., see: U.S. Energy Research and Development Administration. Erdelyi, Matthew H., 1970 May p. 104. Erdl, Michael P., 1963 Mar. p. 50. Erdös, Paul, 1978 Mar. p. 131. Erginsoy, Cavid, 1968 Mar. p. 96. Erhart, Louis, 1954 Dec. p. 43. Eric the Red, 1967 May p. 77. Erickson, A. Earl, 1966 Nov. p. 135; 1967 Jan. Erickson, Albert W., 1968 Feb. p. 112. Erickson, Carl, 1964 Nov. p. 54. Erickson, Ralph O., 1977 Dec. p. 140. Ericson, David B., 1956 Dec. p. 90; 1959 May p. 74; 1963 Mar. p. 76; Nov. p. 140. Ericson, Leif, 1949 Dec. p. 56; 1964 Jan. p. 56; 1967 May p. 77, 78. Ericson, T. E. O., 1972 Nov. p. 106. Ericson, Torleif, 1964 Mar. p. 86. Erie Mining Company, 1968 Jan. p. 33, 35. Eriksson, Erik, 1970 Sept. p. 154; 1971 Jan. p. 40; 1974 May p. 67. Erismann, Theodor, 1962 May p. 64, 67, 72. Erlang, A.K., 1968 Aug. p. 103. Erlanger, Joseph, 1949 Dec. p. 14; 1950 Feb. p. 42; 1967 Nov. p. 25, 27. Erlenmeyer-Kimling, L., 1970 Oct. p. 26, 28. Ermakov, G. V., 1972 Dec. p. 70, 71. Ermengem, Emile van, 1968 Apr. p. 71. Ernst August, Duke of Hanover, 1968 May p. 97. Ernst August, Elector of Hanover, 1969 July p. 42 Ernst, Hans, 1952 Sept. p. 108. Ernst, K. D., 1974 July p. 34. Ernst, Prince, 1965 Aug. p. 91. Eron, Larry, 1970 Jan. p. 50. Erren, Rudolf A., 1973 Jan. p. 14. Erspamer, V., 1957 Dec. p. 53. Ervin, Frank R., 1961 Feb. p. 45. Erving, Oscar R., 1948 Oct. p. 24. Esaki, Leo, 1959 Sept. p. 106; 1973 Dec. p. 50. Esau, Katherine, 1959 Feb. p. 47. Escarraga, Lourdes A., 1958 June p. 49. Esch, Harald, 1964 Apr. p. 118.

Escher, B. G., 1974 July p. 97. Escher, George A., 1974 July p. 101. Escher, Maurits C., 1968 Jan. p. 114; 1971 Dec. p. 63, 64; 1974 July p. 90-104; 1976 Mar. p. 68, 71; Aug. p. 97, 99. Escher, William J. D., 1973 Jan. p. 20. Escluse. Charles de l', 1952 Dec. p. 52. Eshleman, Von R., 1960 Aug. p. 50; 1968 July p. 37. Eskola, Kari A. Y., 1970 June p. 48. Eskola, Pentti, 1951 June p. 32. Eskola, Pirkko L., 1970 June p. 48. Esmond, Henry, 1976 Jan. p. 116. Esper, Johann F., 1959 Nov. p. 167, 168, 172. Esquirol, Jean-Étienne-Dominique, 1879 Feb. Essen, L., 1954 July p. 46; 1955 Aug. p. 65, 66; 1956 Feb. p. 50; 1957 Feb. p. 76. Essex, H., 1952 Feb. p. 52. Essex Marine Laboratory, 1970 May p. 44, 51. Essmann, Uwe, 1971 Mar. p. 75; 1972 Apr. Esso Research and Engineering Company, 1963 Mar. p. 45; Apr. p. 84; 1965 Nov. p. 53; 1967 Jan. p. 60; Sept. p. 106. Estabrook, R. W., 1967 Oct. p. 50. Esteban, M., 1972 Oct. p. 47. Esterl; J. E., 1970 Dec. p. 41. Esterl, J. E., 1978 June p. 67. Estermann, Immanuel, 1965 May p. 63, 64, 72. Estes, J. Worth, 1975 Dec. p. 54. Estrada, Emilio, 1962 Apr. p. 80; 1966 Jan. p. 30, 34. Etana, King of Kish, 1957 Oct. p. 81. Eteodes, 1954 May p. 73. Etkin, William, 1963 Nov. p. 110; 1966 May Ettel, Peter C., 1970 Jan. p. 77; 1972 Jan. p. 102. Etter, Clifton, 1954 July p. 26. Ettingshausen, Albert von, 1961 Dec. p. 124. Euathius, 1971 Mar. p. 50; 1972 July p. 40. Eubulides, 1969 June p. 66. Euclid, 1950 Mar. p. 28; May p. 51; Sept. p. 41, 42; 1952 Nov. p. 78; 1953 Jan. p. 51, 52, 56; Feb. p. 79-81; Mar. p. 84-86; 1954 Nov. p. 86; 1955 Jan. p. 84; 1956 Mar. p. 104-106, 108, 110, 112; Apr. p. 118; June p. 71, 73; Sept. p. 136, 137; 1958 Sept. p. 66, 67, 69; 1961 Sept. p. 119; 1964 May p. 110; Sept. p. 129, 42, 47, 55, 60, 66, 67, 96, 102; 1965 Nov. p. 98; 1967 July p. 53; Dec. p. 105, 106, 113, 116; 1969 June p. 70; 1971 Mar. p. 50-53, 59; Aug. p. 92; 1972 June p. 78, 86; 1973 May p. 82; Nov. p. 87; 1976 Mar. p. 69; Aug. p. 98, 99; 1977 July p. 123, 124, 130. Euclide, 1957 Oct. p. 83. Euclides, 1969 Nov. p. 87-92, 94, 98. Eudoxus, 1949 Apr. p. 45; 1967 Dec. p. 116; 1969 Nov. p. 98; 1976 Aug. p. 90; 1977 July Eulenberg, Albertus, 1971 Jan. p. 102. Euler, C. von, 1961 Jan. p. 137 Euler, Hans von, 1970 Dec. p. 39. Euler, Leonhard, 1948 June p. 57; 1949 Jan. p. 43, 35; 1950 Jan. p. 21, 22, 23; Sept. p. 40; 1951 July p. 53; 1953 Mar. p. 85; July p. 66, 67; 1954 Jan. p. 59, 61, 63; Nov. p. 82; 1955 Oct. p. 100; 1956 Apr. p. 120; 1957 Feb. p. 100; June p. 101; 1958 Mar. p. 94; June p. 107, 1958 Mar. p. 94; June p. 167, 1958 Mar. p. 94; June p. 167, 167 33, 34; Sept. p. 69, 72, 82; 1961 May p. 157, 158; 1966 May p. 118; 1968 May p. 95; 1969 Sept. p. 69; 1970 July p. 94; 1971 Oct. p. 101; Dec. p. 80, 81, 83; 1972 June p. 80, 82; 1973 July p. 24; 1976 Apr. p. 77; Aug. p. 49; 1977 July p. 124; 1978 Jan. p. 96-100, 102. Euler, Ulf S. von, 1955 May p. 78; 1958 Jan. p. 46; 1970 Dec. p. 38; 1971 Nov. p. 84; 1974

F

June p. 59. Euler-Chelpin, H. K. A. S. von, 1967 Nov. p. 27. Eumachia, 1958 Apr. p. 71, 73. Eumenes, 1950 Aug. p. 50. Eunatti, Abdelinajid, 1978 Jan. p. 111. Eupalinus, 1964 June p. 104-107, 109, 110, 112. Euratom, 1957 Apr. p. 68; 1969 May p. 52; 1972 July p. 75. Euripides, 1949 June p. 41; 1963 June p. 111, 113, 115; 1966 Dec. p. 99; 1972 Dec. p. 91. European Economic Community, 1963 Sept. p. 227, 240; 1965 Oct. p. 44; 1976 Sept. p. 38. European Organization for Nuclear Research (CERN), 1954 Sept. p. 74; 1955 May. p. 50; 1957 Nov. p. 57; 1958 Mar. p. 65, 73; 1960 Feb. p. 65; Aug. p. 70; Sept. p. 99; Nov. p. 97; 1961 Mar. p. 80; May p. 76; July p. 50, 55; Aug. p. 61; Nov. p. 56; 1962 May p. 74; Aug. p. 36, 52; 1963 Mar. p. 70; Dec. p. 122, 127, 129; 1964 Mar. p. 54, 86; July p. 44; Oct. p. 45, 59; 1966 Apr. p. 27; July p. 74, 77, 78; Nov. p. 113, 115, 116, 64; 1967 Feb. p. 57; Mar. p. 50; Oct. p. 48; 1968 May p. 17; Aug. p. 42; Sept. p. 84; 1970 Aug. p. 45; Nov. p. 45; 1971 Jan. p. 47; Apr. p. 49; June p. 77; Sept. p. 75; 1972 Nov. p. 49; 1973 May p. 42; Aug. p. 33, 36, 38; Nov. p. 36-44, 48; 1974 Dec. p. 115, 117; 1975 July p. 46; 1976 Apr. p. 55; Aug. p. 42; 1977 Apr. p. 58; Oct. p. 69; 1978 Feb. p. 84; June p. 71, 72. European Physical Society, 1974 Dec. p. 66. European Southern Observatory, 1976 Oct. p. 78. European Space Research Organization, 1960 Nov. p. 90; 1968 Nov. p. 92. Euthanasia Educational Council, 1973 Sept. p. 59. Evans, Alfred S., 1953 Apr. p. 29. Evans and Sutherland Computer Corp., 1970 June p. 70; 1977 Sept. p. 231, 217. Evans, Arthur, Sir, 1954 Jan. p. 44; May p. 71, 73-75; Dec. p. 72; 1955 July p. 45; 1957 Oct. p. 58; 1965 Feb. p. 102; 1968 Mar. p. 40, 42; May p. 33; 1972 Oct. p. 42; 1976 Apr. p. 56; Aug. p. 45. Evans, C. A., 1956 Apr. p. 110. Evans, Charles, 1967 Jan. p. 83. Evans, Clifford Jr., 1954 Aug. p. 29; 1962 Apr. p. 80; 1975 May p. 44. Evans, David C., 1966 Sept. p. 69, 75. Evans, David R., 1950 Dec. p. 31. Evans, E. F., 1975 Oct. p. 94. Evans, E. J., 1969 Nov. p. 36. Evans, Eva K., 1949 Dec. p. 55. Evans, Francis C., 1964 Oct. p. 110. Evans, H. C., 1970 Dec. p. 41; 1978 June p. 67. Evans, Harold G., 1977 Mar. p. 74. Evans, Herbert, 1956 Feb. p. 101. Evans, Herbert M., 1950 Oct. p. 19, 22. Evans, Howard E., 1975 Dec. p. 108. Evans, John, 1959 Nov. p. 173, 174, 176. Evans, John M. Jr., 1978 Feb. p. 64 Evans, John V., 1959 May p. 54, 1968 July p. 37. Evans, John W., 1958 Feb. p. 44; 1968 Jan. p. 102; 1973 Oct. p. 74. Evans, Lee, 1976 June p. 111. Evans, Luther H., 1953 Sept. p. 73. Evans, Margiad, 1954 June p. 61. Evans, Oliver, 1949 Dec. p. 57; 1964 Jan. p 107; 1972 May p. 102. Evans, Ralph L., 1968 May p. 53. Evans, Ralph M., 1975 Aug. p. 69. Evans, Robert B., 1971 Sept. p. 186, 188. Evans, Robley D., 1949 May p. 28; 1967 Feb. p. 50, Evans Thomas 1066 Cans a 248 257

Evans, U. R., 1956 May p. 36, 37. Evans, W. G., 1959 July p. 98. Evans, Walter, 1976 Sept. p. 40. Evans, Ward V., 1954 June p. 44; July p. 42. Evarts, Edward V., 1967 Feb. p. 70; 1974 Oct. p. 106. Eve, A. S., 1966 Aug. p. 91. Eveleth, Phyllis, 1968 Jan. p. 26. Eveleth Taconite Company, 1968 Jan. p. 35. Evelyn, John, 1953 June p. 25; 1954 Dec. p. 98; 1964 Jan. p. 25. Evenari, Michael, 1956 Sept. p. 118. Everest, Frank K., 1955 Oct. p. 45. Everett, George A., 1965 May p. 48; 1966 Feb. Everett, J. E., 1968 Apr. p. 53, 59; 1970 Oct. p. 34; 1972 May p. 59. Everhart, Thomas E., 1972 Sept. p. 43. Everitt, B. J., 1972 Aug. p. 46. Evernden, Jack F., 1961 Sept. p. 86; 1962 May p. 78; 1967 Feb. p. 51; 1972 Jan. p. 15; 1976 Dec. p. 118. Evernden, John F., 1963 Feb. p. 69; June p. 73; 1969 June p. 34. Everote, Warren, 1958 Apr. p. 64. Evershed, John, 1960 Jan. p. 120; 1968 Jan. p. 102. Eversole, H. O., 1957 June p. 85. Eversole, William G., 1975 Nov. p. 106, 107. Evoy, William H., 1967 May p. 51. Ewen, Harold I., 1953 Jan. p. 21; 1955 Mar. p. 38; May p. 47; 1956 Jan. p. 48; Apr. p. 57; Oct. p. 56; 1957 July p. 48; 1959 Dec. p. 95; 1961 May p. 60, 63, 65; 1962 Nov. p. 61; 1963 June p. 94; 1965 July p. 26, 29; 1977 June p. 68. Ewig, E., 1965 Sept. p. 61. Ewing, A. W., 1970 July p. 85. Ewing, Gifford C., 1955 Jan. p. 65. Ewing, James A., 1967 Sept. p. 231, 93; 1969 Apr. p. 117. Ewing, John, 1962 Jan. p. 64; May p. 121; 1967 Aug. p. 40. Ewing, Maurice, 1950 May p. 38, 39; 1952 May p. 40; 1953 Apr. p. 50; 1955 Sept. p. 174; 1956 Aug. p. 38, 50; Dec. p. 84-90, 92, 94; 1957 Mar. p. 66; 1958 July p. 90; 1959 Mar. p. 138, 140; May p. 74; Oct. p. 82; 1960 May p. 92; Aug. p. 71; Oct. p. 100, 110, 95; 1961 Dec. p. 54, 60; 1962 Jan. p. 64; May p. 116; Sept. p. 154; 1963 Mar. p. 76; Nov. p. 140; 1965 Nov. p. 30; 1967 Aug. p. 40; 1968 Apr. p. 56; 1969 Sept. p. 127; Nov. p. 106; 1970 Jan. p. Ewing, Oscar R., 1950 Nov. p. 26. Exley, D., 1965 Dec. p. 50. Exline, Harriet, 1960 Apr. p. 122. Exner, Felix M., 1974 July p. 60. Experiment Incorporated, 1953 May p. 33, 34. Export-Import Bank, 1948 July p. 31. Exxon Corporation, 1975 Jan. p. 42; 1976 Jan. p. 56; 1977 Feb. p. 93. Exxon Nuclear Company, 1974 Oct. p. 57; 1976 Dec. p. 38. Eylar, Edwin H., 1969 Feb. p. 103. Eyraud, F. E., 1958 June p. 61. Eyring, Carl, 1951 Aug. p. 24. Eyring, Henry, 1953 May p. 30; 1954 Sept. p. 66; 1955 Nov. p. 46; 1958 Oct. p. 43. Eysenck, Hans J., 1963 Mar. p. 103. Eyzaguirre, Carlos, 1961 Sept. p. 226 Ezer, Dilhan, 1963 Oct. p. 76; 1969 July p. 36. Ezrow, David H., 1971 May p. 26.

F. H. McGraw and Co., 1951 Feb. p. 34. F. J. Stokes Machine Company, 1954 July p. 38. Faber, Knud, 1968 Apr. p. 71. Fabian, Andrew, 1975 Apr. p. 57; 1977 Oct. p. 49, 51. Fabing, Howard D., 1955 Oct. p. 82; 1956 June Fabre, Jean H., 1950 July p. 53; 1958 Apr. p. 99; 1963 Apr. p. 147, 149; May p. 102; 1964 Aug. p. 20, 22; 1965 July p. 96; 1974 Apr. p. 101; July p. 28; 1976 Aug. p. 84, 87. Fabricius, Ernst, 1964 June p. 105-107, 109. Fabricius, Johannes, 1975 Sept. p. 49. Fabricus, David, 1976 June p. 100, 105. Fabri-Tek Incorporated, 1966 Sept. p. 82. Fabroni, Stephano, 1958 Aug. p. 27. Fabry, Charles, 1968 Sept. p. 77-79, 80-82. Fabry, Johannes, 1973 Aug. p. 89, 92, 94, 97. Factor, Mallory, 1973 Feb. p. 48. Factor, Robert M., 1973 Aug. p. 47. Fadlan, I., 1967 May p. 71. Faegri, Knut, 1956 Apr. p. 71. Fagan, J., 1978 Mar. p. 113. Fagan, Joseph, 1972 Mar. p. 78. Fagen, E. A., 1969 Nov. p. 31. Fager, E. W., 1948 Aug. p. 31; 1953 Nov. p. 83. Fagerlie, Joan, 1971 Aug. p. 31. Fagraeus, Astrid, 1964 Dec. p. 106. Fahey, John L., 1973 June p. 86. Fahie, J. J., 1949 Aug. p. 40 Fahlen, Theodore S., 1974 July p. 65, 67, 70. Fahmy, Myrtle, 1961 Oct. p. 86, 88. Fahmy, O., 1960 Jan. p. 106; 1961 Oct. p. 86, 88. Fahraeus, Robin, 1954 Feb. p. 57. Fahrenheit, Gabriel, 1949 June p. 31; 1956 June p. 105; 1957 June p. 62; 1965 Jan. p. 38; 1967 Feb. p. 95. Fahy, Charles, 1949 Apr. p. 26. Failla, G., 1954 Dec. p. 53. Fairbairn, H. W., 1968 Apr. p. 59. Fairbank, William M., 1956 June p. 64; 1965 Oct. p. 60; Dec. p. 42; 1968 June p. 44; 1969 Jan. p. 48; 1971 Mar. p. 80. Fairbanks, Charles W., 1963 Mar. p. 124. Fairbanks, Douglas, 1972 May p. 37. Fairbanks, Grant, 1951 Feb. p. 36. Fairbanks Whitney Corporation, 1962 Dec. p. 44, 47. Fairbridge, Rhodes W., 1961 Mar. p. 82. Fairchild Camera and Instrument Corporation, 1962 Mar. p. 79; 1965 Nov. p. 68; 1966 Sept. p. 65; 1970 Feb. p. 23, 25, 26; June p. 58; 1971 Feb. p. 79; 1972 Mar. p. 42; Aug. p. 78, 78; 1973 Aug. p. 54; 1977 Sept. p. 140, 198, 64, 65, 67. Fairchild Engine and Airplane Corporation, 1951 Apr. p. 32; 1953 Dec. p. 80; 1960 Aug. p. 45. Fairey Aviation Company, Ltd., 1960 Aug. p. 44. Fairmount Chemical Company, 1953 July p. 32. Faison, S. Lane, 1956 May p. 66. Faithorne, William, 1967 Aug p. 98. Fajans, Casimir, 1956 Nov. p. 102. Falbe, C. T., 1978 Jan. p. 112. Falcon, Jacques de, 1972 Aug. p. 79. Falcone, Giuseppe, 1960 Feb. p. 144. Falconer, Hugh, 1959 Nov. p. 173, 176. Falejczyk, Francis J., 1968 Aug. p. 74. Falk, G., 1958 Jan. p. 46. Falk, Sidney W., 1976 Dec. p. 93. Falk, Theodore J., 1970 Feb. p. 44. Falkenberg, Pål, 1977 Aug. p. 94. Falkenstein, Adam, 1968 May p. 32; 1978 June p. 50.

Falkow, Stanley, 1967 Dec. p. 25. Falla, Robert, 1954 Feb. p. 88. Fallek, Joseph, 1967 June p. 26. Faller, Alan, 1958 July p. 88. Faller, James E, 1969 Dec. p. 93; 1970 Mar. p. 38; 1972 Apr. p. 47; 1976 May p. 95, 96. Falloppio, Gabriele, 1948 May p. 30. Fallot, Etienne-Louis A., 1950 Jan. p. 16, 17. Fanale, Fraser P., 1975 Sept. p. 147; 1976 May p. 115; 1978 Mar. p. 76. Fanconi, Guido, 1962 Aug. p. 29. Fankboner, Peter V., 1975 Apr. p. 104. Fankhauser, Gerhard, 1955 June p. 56. Fankuchen, I., 1948 Oct. p. 17. Fano, Robert M., 1962 Feb. p. 108; 1966 June p. 49; Sept p. 120, 129, 133, 134, 147, 162, 182, 196, 207, 70, 86. Fano, U, 1950 Oct. p. 28. Fanon, Frantz, 1966 Oct. p. 24. Fantes, Karl H., 1971 July p. 27. Fanti, Roy, 1965 Feb. p. 37. Fantz, Robert L, 1955 Feb. p. 71. Farabaugh, E. N., 1966 Oct. p. 70. Faraday, Michael, 1949 June p. 32; July p. 39; Dec. p. 35, 52, 57; 1950 Feb. p. 42; Apr. p. 14; June p. 23; Oct. p. 31; 1951 Dec. p. 45, 47; 1953 Apr. p. 58; Oct. p. 90-94, 96, 98; Nov. p. 94, 96; 1954 Apr. p. 64, 65, 69; July p. 73, 75; 1955 June p. 58, 62, 64-66, 70, 64-66; July p. 69; 1957 Jan. p. 72, 84, 85; Feb. p. 111; Aug. p. 84; 1958 Mar. p. 94, 102; Apr. p 56; May p. 45; Sept. p. 76, 81, 82; 1959 Nov. p. 174; Dec p. 90; 1960 Mar. p. 82; June p. 106, 116; 1961 Mar. p. 102; May p. 107-109, 110, 113, 116; 1963 Feb. p. 116; May p. 51, 52; Oct p. 42; 1964 Apr. p. 38; Sept. p. 43; 1965 Mar. p. 35; Apr. p. 69; July p. 66; 1966 Nov. p 84; 1968 June p. 22, 23; Sept. p. 56; 1970 May p. 116; July p. 19, 1971 May p. 80, 82, 86; Dec. p 49; 1973 Feb p. 101; 1974 Mar. p. 93; 1975 Jan. p. 52; 1976 Sept. p. 70. Farber, John, 1975 Feb. p. 53. Farber, Paul, 1973 Jan. p 25. Farber, Sidney, 1963 Oct. p. 27; 1964 May p. 93. Farbri, Egisto, 1959 Nov. p. 100. Farbwercke Hoechst, 1955 Oct p. 44. Farina, Philip, 1977 May p 110. Farley, F. J. M, 1961 Mar. p. 80, July p 54. Farley, Reynolds, 1970 Apr. p. 46. Farlow, William G, 1952 Jan p. 29 Farmer, Crofton B, 1978 Mar. p 81. Farmer, Moses G, 1959 Nov. p 99, 100, 105 Farnham, A E, 1963 Jan p 55; Oct. p 48. Farnsworth Electronic Company, 1956 Mar p 90 Farnsworth, H E, 1965 Mar p. 35, 39, 41 Farnsworth, Patricia N, 1971 Feb p. 88 Farnsworth, Philo T, 1950 Oct p 34 Faron, Louis, 1956 May p 74. Farquhar, Marilyn G., 1978 May p 141 Farquharson, A S L, 1972 July p 39 Farr, Lee E, 1955 Oct p 41; 1956 Sept p 112 Farr, Richard S, 1964 Mar p 42 Farrand, William R, 1960 Sept p 66 Farthing, E D, 1957 Apr. p 143. Fatersonn, H F, 1959 Feb p 51 Fateyeva, M. N, 1955 Oct. p 41. Fatt, Paul, 1960 Oct p 119; 1970 Dec p 39, 1978 Feb p 94 Faulkner, D J, 1964 Jan p 41 Faulkner, Edward H, 1977 Jan p 28, 30 Faulkner, J, 1968 Oct p 35 Faulkner, M., 1959 June p 86. Faulstich, Heinz, 1975 Mar. p 101. Faundes, Anibal, 1972 Nov. p 50 Faure, Gunter, 1977 Mar p. 101. Faure, Hugues, 1970 Feb p. 35

Faust, David L, 1976 Dec. p. 53. Faust, W. L., 1963 July p. 38. Fauteux, Mercier, 1950 Jan p. 17. Favaloro, Rene G, 1968 Oct. p 42 Favaro, Antonio, 1973 May p. 87. Favorov, A. M., 1962 Nov. p. 48. Favre, R., 1966 Dec. p. 38, 33. Favreau, Robert D., 1962 Sept. p. 86. Favret, Ewald A., 1971 Jan. p. 95. Fawcett, Don W, 1958 June p. 42; 1961 Feb. p. 115; Sept. p. 145, 51, 58, 60; 1973 Oct. p. 27; 1974 Oct. p. 45. Fay, Charles du, 1953 Aug. p. 69. Fay, Temple, 1958 Mar. p 106; 1959 Oct. p. 88. Fazio, Giovanni G, 1978 Apr. p. 116. Feast, M. W., 1964 Jan. p. 37. Fechner, Gustav T., 1961 July p. 113. Feddersen, Berend W., 1957 Dec. p. 100. Feder, Donald P, 1976 Aug. p 81, 82. Federation of American Scientists, 1948 Oct. p. 24; Nov. p 24; 1949 Apr p. 24; Aug. p. 25; 1950 Mar. p. 26; Apr. p. 30, June p. 27; 1952 July p. 36; 1953 May p. 53; 1954 Feb. p 44, June p. 29, 30, Aug. p. 36; 1955 Sept. p 72; May. p. 54; 1956 Sept. p. 113; 1959 Apr. p. 64; Aug. p 62; 1966 Nov. p. 64; 1967 Apr. p. 48, 1974 Apr. p. 48; 1976 July p. 60, 65; 1977 May p. 50. Federation of American Societies for Experimental Biology, 1952 June p 32. Federation of British Industries, 1970 July p. 23 Federer, Charles A, 1953 Feb. p. 35. Federley, H, 1970 Dec. p. 108 Federov, Yevgeni I., 1958 Oct. p 52; 1960 Jan Fedorov, E. S, 1974 July p. 97, 98. Fedorov, Victor, 1972 Feb p. 28. Fedorowicz, R. J., 1968 Feb p 41. Fedoseev, D. B, 1975 Nov. p 102 Fedyakın, N N, 1969 Sept p 90, 1970 Nov. p. 58, 60-62. Feely, Herbert W, 1956 Dec p 92 Feher, George, 1961 June p 55 Fehrenbach, Charles, 1964 Jan. p 35. Fein, Jack M, 1978 Mar. p 59 Feinberg, Gerald, 1963 Mar. p 67, Dec p 131, 1968 Sept. p 121; 1970 Feb p. 69 Feinberg, Samuel M., 1950 May p 29 Feingold, David S., 1975 Dec. p. 34 Feinleib, Julius, 1977 May p 46 Feinman, Lawrence, 1975 May p 44, 1976 Mar p 30, 32 Feiveson, Harold A, 1977 May p 60 Felch, E P, 1961 June p 156 Feld, Bernard T, 1966 Nov p 65, 1978 Feb Feld, Jacob, 1956 Oct p 59 Feld, M S, 1973 Dec p 81, 82 Feldhaus, Franz M, 1971 Feb. p 101 Feldman, Gary J, 1978 Mar. p 56 Feldman, Harry A, 1953 Feb p 88 Feldman, Jacob J, 1963 Aug p 23 Feldman, Joseph, 1973 June p 85 Feldman, L C, 1973 Apr p 69 Feldman, Lawrence, 1977 Mar p 127 Feldmann, Marc, 1976 May p 31, 39 Feldmeth, C Robert, 1971 Nov p 104, 105 Feldstein, Martin, 1973 Sept p 92 Felici, A, 1955 Apr p 94, 1964 Jan p 84 Felix, Guilia, 1958 Apr p 72, 78 Felix, Robert H, 1956 June p 55 Felker, J. H., 1952 Sept p 116 Fell, Honor B, 1959 May p 133, 1963 May p 72, 1967 Nov p 68. Feller, Bob, 1959 May p 73 Feller, William, 1964 Sept p 149 Feligett, Peter B, 1968 Sept p. 80

Fellow, Abraham R., 1957 Feb p 67 Fels Research Institute for the Study of Human Development, 1968 Jan p. 23, 1970 Jan Felsenfeld, Gary, 1973 Aug. p 25 Felsinger, John M. von, 1954 Nov p 54, 1955 Aug p. 69. Felton, James, 1966 Aug p 36 Feltrinelli, Antonio, 1957 Nov. p 83. Fenaux, Robert, 1976 July p 98. Fender, Derek H, 1971 June p 35. Fendley, J. R , 1973 Feb. p 89 Fenn, John B, 1953 May p. 33; 1968 Oct p 48 Fenn, Ruth, 1966 Nov. p 84 Fenn, Wallace O, 1956 May p. 54, 55. Fenneman, Nevin M, 1967 Apr. p 91 Fenner, C. A, 1978 Feb p 108. Fenner, Frank, 1954 Nov. p. 76, 78, 1955 May p 32; 1957 Apr. p. 78; 1963 Oct p 47 Fenner, G. E., 1963 July p 38 Fenton, Keith B, 1955 Sept. p 54 Fenton, Paul, 1956 Nov. p 114 Fentress, Jan L, 1969 Apr p 36 Feodore, Princess of Sax-Meiningen, 1965 Aug. Ferchault, Rene A, 1974 July p 28 Ferdinand III, Emperor, 1950 May p 20. Ferdinand, Prince of Romania, 1965 Aug p 89 Ferdinand V, King, 1957 Mar. p 121 Ferejohn, John A, 1976 June p 26 Ference, Michael Jr, 1966 Nov p 66 Fergason, James L, 1967 Feb p 102, 1970 Apr p 101 Ferge, S, 1974 Nov. p 120 Fergus, W, 1968 Jan p 23 Ferguson, Charles W, 1971 Oct p 68, 72, 1972 May p 97, 99, 100 Ferguson, Eugene S, 1971 Oct p 96 Ferguson, James, 1971 Oct p. 99 Ferguson, Margaret, 1970 Dec p 80 Fergusson, G J, 1957 Nov p 70 Fermat, Pierre de, 1949 Jan p 40, 42-45, 1951 July p 52, 53, 1958 Sept p 69, 1959 Oct p 163, 1964 Sept p 64, 65, 1971 Mar p 56, 57, 1973 Nov p 87, 1977 July p 124, 1978 Jan p 103, Feb p 89 Fermi, Enrico, 1948 June p 38, 28, Aug p 52, 1949 Mar p 29, 38; July p 43, Aug p 24, Dec p 17, 1950 Mar p 27, Apr p 44, Sept p 31, 1951 May p 30, 33, 1952 Jan p 27, Dec p 44, 46, 1953 Jan p 30, Sept p 69, 70, Oct p 51, 1954 Mar p 62, Sept p 136, 1955 Jan p 42, Sept p 72, Dec p 85, 1956 Jan p 60, 62, 68, June p 41, Aug p 48, Sept p 154, Oct p 102, Nov p 60, Dec p 71, 1957 July p 77, 78, 80, Dec p 84, 1958 Feb p 77, Aug p 29, Sept p 77, 81, 82, Dec p 56, 1959 Jan p 62, 76, 78, Mar p 76, July p 86, Nov p 135, 1960 June p 64, 82, 1962 Aug p 92, 1963 Jan p 41, 60, 74, Mar p 60, 64, July p 112, 113, 1964 Feb p 84, Nov p 38, 1965 Mar p 104, June p 46, 1966 Feb p 40, Aug p 32, Oct p 64, 1967 June p 24, Sept p 198, 202, 204, Nov p 27, 29, 1968 Feb p 21, Sept p 57, 1969 Jan p 131, Feb p 63, July p 29, 33, 1971 Feb p 63, 1972 Feb p 72, 73, 1973 Aug p 30, 33, 35, 36, Nov p 48, 1975 Oct p 108, 109, 113, 1976 June p 33, 35, July p 36, Aug p 42, Dec p 30, 1977 May p 38 Fermi National Accelerator Laboratory (Fermilab), 1970 Aug p 44, 1974 Aug p 46, Dec p 108, 109, 117, 1975 Feb p 40, Oct p 42, 1976 Apr p 55, Aug p 42, 44A, 1977 Apr p. 58, May p 57, Oct p 69, 1978 Mar p 57, 72

Fermi National Accelerator Laboratory Users

Organization, 1970 Aug. p. 44. Fernaguut, Jan, 1978 Mar. p. 137. Fernald, Merritt, 1949 May p. 51. Fernandas, Mario, 1973 Jan. p. 25. Fernandez-Moran, Humberto, 1962 Apr. p. 66, 70; 1963 June p. 77; 1964 Jan. p. 65, 66, 73; 1968 Feb. p. 35; 1971 Nov. p. 22, 31. Fernie, John D., 1975 June p. 70. Fernstrom, J. D., 1973 July p. 51. Ferrar, Hartley T., 1962 Sept. p. 175. Ferrara, Giorgio, 1970 Feb. p. 35. Ferrara, Sergio, 1977 July p. 59; 1978 Feb. p. 137. Ferraro, V. C. A., 1955 Feb. p. 41; 1964 Apr. p. 66; 1965 Mar. p. 58, 61, 65; 1975 Sept. p. Ferreira, S. H., 1971 Aug. p. 45. Ferrel, William, 1955 Sept. p. 117, 122; 1970 Sept. p. 60-62. Ferriar, John, 1965 June p. 115. Ferrier, David, Sir, 1961 Oct. p. 135. Ferris, Eugene B., 1949 Mar. p. 26. Ferrone, Soldano, 1972 June p. 32, 35. Ferry, John D., 1957 Sept. p. 214; 1962 Mar. p. 64. Ferster, Charles B., 1961 Nov. p. 94. Fertuck, Helen C., 1977 Feb. p. 118. Fesenkov, Vasily G., 1961 Jan. p. 80. Feshbach, Herman, 1964 Mar. p. 88. Feshbach, Seymour, 1964 Feb. p. 35. Fessenkov, Basil, 1950 June p. 42. Fessler, John H., 1965 June p. 61. Feulgen, Robert, 1953 Feb. p. 49, 52-54; 1961 Sept. p. 74; 1970 Feb. p. 103. Few, Arthur A. Jr., 1975 Jan. p. 52; July p. 80. Feynman, Richard P., 1956 Dec. p. 164, 166; 1958 June p. 34; 1959 Mar. p. 76; 1960 Nov. p. 144, 150; 1963 Mar. p. 64; Apr. p. 82; 1965 Feb. p. 51; Dec. p. 39; 1966 Feb. p. 48; 1967 Jan. p. 106-108; Nov. p. 28, 29; 1968 Jan. p. 74; 1971 June p. 73; Sept. p. 75; 1973 Aug. p. 34; Oct. p. 108-110, 113, 49; 1974 Feb. p. 81; July p. 53, 54; 1975 June p. 54; 1978 Feb. p. 132. Fialkow, Philip J., 1977 Feb. p. 82; 1978 Feb. Fiasconaro, Marcello, 1976 June p. 111. Fibiger, Johannes, 1967 Nov. p. 27. Fibonacci, see: Leonardo of Pisa. Fichte, Johan, 1958 Mar. p. 100. Fichtel & Sachs AG, 1972 Aug. p. 14. Ficino, Marsilio, 1973 Apr. p. 90, 92. Fick, Adolf, 1975 Mar. p. 70. Ficker, Heinz von, 1951 July p. 20. Fiddes, John C., 1977 Dec. p. 55. Fidler, I. J., 1968 Aug. p. 39. Fieandt, Kai von, 1961 Mar. p. 139, 141; 1974 July p. 98-100. Fiedler, Fred E., 1957 Oct. p. 62. Field, A. Kirk, 1971 July p. 27. Field, E. J., 1967 Jan. p. 113. Field, George B., 1964 Aug. p. 38; 1966 May p. 54; Dec. p. 51; 1967 June p. 33; 1971 May p. 29. Field, John, 1951 Dec. p. 34. Field, Michael, 1971 Aug. p. 20, 21. Field, Pauline M., 1976 July p. 55, 56. Field, Richard J., 1974 June p. 85. Field, Richard M., 1956 Dec. p. 85, 86; 1962 May p. 117. Field, W. O., 1970 June p. 105, 110. Fielding, Henry, 1958 June p. 74. Fields, Bud, 1976 Sept. p. 40. Fields, D. S. Jr., 1969 Mar. p. 28. Fields, Howard, 1967 May p. 51. Fields, K. E., 1955 June p. 47,48. Fields, Kay, 1975 Dec. p. 34.

Fields, Paul R., 1956 Dec. p. 67; 1957 Aug. p. 58. Fiers, Walter, 1977 Dec. p. 62. Fies, Milton H., 1950 June p. 52, 53. Fieser, Louis F., 1951 July p. 31. Figgins, Jesse D., 1951 Feb. p. 16. Figueira, Joseph F., 1973 June p. 53, 55. Fildes, Paul, 1951 Apr. p. 60, 61. Filler, William S., 1961 Aug. p. 68. Filmer, D. L., 1958 July p. 56. Filmer, David, 1973 Oct. p. 56. Filosa, M. F., 1959 Dec. p. 158. Filshie, B. K., 1969 Aug. p. 91, 93, 95. Finamore, Frank J., 1963 Nov. p. 118. Finch, John T., 1959 Aug. p. 66; 1963 Jan. p. 53; 1977 Nov. p. 72; Dec. p. 55. Finch, R. H., 1951 Nov. p. 52. Findeisen, Walter, 1952 Jan. p. 17; 1957 Oct. p. 43; 1961 Jan. p. 120, 121. Findlay, George W. M., 1961 May p. 51; 1963 Oct. p. 46; 1971 July p. 26. Findlay, John W., 1961 Nov. p. 79. Findlay, Leonard, 1970 Dec. p. 79, 88. Findley, G. P., 1978 Feb. p. 111. Fine, Ben S., 1962 Nov. p. 121; 1963 Oct. p. 89. Fine, M. M., 1966 June p. 58. Finean, J. B., 1962 Apr. p. 70. Fineman, Morton A., 1968 Oct. p. 46. Fingerman, Milton, 1954 Apr. p. 35; 1955 July p. 92; 1975 Feb. p. 73. Fink, Daniel J., 1969 Aug. p. 22. Fink, P. T., 1965 Nov. p. 54. Finke, L. L., 1953 Feb. p. 24. Finkel, Miriam P., 1955 Aug. p. 37. Finkelstein, David, 1964 Sept. p. 84. Finkelstein, Jordan W., 1972 July p. 81. Finkelstein, Richard G., 1971 Aug. p. 20. Finkelstein, Theodore, 1973 Aug. p. 86. Finland, Maxwell, 1950 Mar. p. 35. Finley, Sara C., 1965 July p. 48. Finley, Wayne H., 1965 July p. 48. Finn, Ronald, 1966 Mar. p. 58; 1968 Nov. p. 50. Finnell, H. H., 1954 July p. 25. Finnish Geological Survey, 1963 Feb. p. 89. Finnish National Republic, 1977 Jan. p. 23. Finnish State Serum Institute, 1977 Apr. p. 49. Fino, Paul A., 1965 Nov. p. 23. Finocchiaro, G., 1966 Nov. p. 64; 1973 Nov. Finsen, Niels, 1967 Nov. p. 26; 1968 July p. 42. Finter, Norman B., 1977 Apr. p. 48. Fiorelli, Giuseppe, 1958 Apr. p. 70. Fiorentini, Adriana, 1972 June p. 91. Fireman, Edward L., 1960 Nov. p. 174; 1973 July p. 68. Firestone, Floyd A., 1978 May p. 98. Firestone Tire and Rubber Company, 1956 Nov. p. 82; 1957 Sept. p. 103; 1964 Nov. p. 102; 1974 Mar. p. 72. Firmo, Marcus O., 1958 Apr. p. 72. Firnas, John, 1961 June p. 90. Firor, John W., 1973 Oct. p. 71, Firth, C. M., 1957 July p. 106. Firth, Ian M., 1974 Jan. p. 95. Fischback, Julia, 1962 Jan. p. 48. Fischberg, Michail, 1968 Dec. p. 24, 28. Fischell, R. E., 1963 May p. 94 Fischer, Bobby, 1973 June p. 93, 98, 100. Fischer, Edmond H., 1972 Aug. p. 97, 99, 100. Fischer, Emil, 1949 Sept. p. 51; 1950 June p. 35, 37; Sept. p. 62; 1953 July p. 30; Nov. p. 56; 1954 July p. 51; 1955 May p. 36; 1957 Sept. p. 87; 1958 Jan. p. 60; 1962 July p. 92; 1963 July p. 52; 1967 Nov. p. 26; 1968 Mar. p. 56; 1973 Oct. p. 52, 54. Fischer, Erhard W., 1964 Nov. p. 84. Fischer, Ernst O., 1973 Dec. p. 50.

Fischer, Franz, 1955 July p. 63; 1976 May p. 27. Fischer, Hans, 1949 Dec. p. 36, 38, 39; 1950 Sept. p. 62, 73; 1967 Nov. p. 27. Fischer, Irene, 1956 July p. 50. Fischer, Klaus, 1965 May p. 81. Fischer, Marjorie, 1967 Jan. p. 106. Fishburn, Peter C., 1976 June p. 27. Fisher, Adrian A., 1966 Aug. p. 40. Fisher, Adrian S., 1949 July p. 33. Fisher, Alan E., 1956 Oct. p. 72. Fisher, C. Miller, 1978 Apr. p. 64. Fisher, Charles, 1960 Nov. p. 88. Fisher, David E., 1973 July p. 69. Fisher, Gerald, 1971 Dec. p. 67. Fisher, Glenn A., 1975 Jan. p. 75. Fisher, H. W., 1957 Aug. p. 93. Fisher, Howard, 1974 Sept. p. 35. Fisher, Irving, 1951 Oct. p. 15; 1964 Sept. p. 168. Fisher, John C., 1966 May p. 35; 1973 Dec. p. 55. Fisher, Kenneth C., 1968 Mar. p. 115, 118; 1971 Apr. p. 72. Fisher, Lester E., 1955 Dec. p. 56. Fisher, R. A., 1950 Jan. p. 33; 1959 Sept. p. 142; 1964 Sept. p. 149. Fisher, Robert A., 1953 Sept. p. 128; 1977 June p. 107. Fisher, Robert L., 1973 May p. 67-69; 1977 Apr. p. 32. Fisher, Ronald A., Sir, 1951 Nov. p. 23; 1957 May p. 126; 1970 Jan. p. 107; 1975 Dec. p. 79. Fisher, Sterling, 1957 Oct. p. 57. Fisher, W. Halder, 1971 Nov. p. 15. Fishler, Max, 1951 Feb. p. 31. Fishman, Jacob R., 1965 May p. 48. Fisk, Harold N., 1951 Apr. p. 21; 1952 Mar. p. 24. Fisk, James B., 1958 Oct. p. 52; 1960 Jan. p. 70; Feb. p. 64. Fiske, John, 1959 Feb. p. 84. Fiske, Virginia, 1965 July p. 55, 56. Fitch, Frank, 1978 Apr. p. 99. Fitch, Frank W., 1963 Mar. p. 48, 48. Fitch, James M., 1960 Dec. p. 134. Fitch, Thomas J., 1977 Apr. p. 36. Fitch, Val L., 1953 July p. 41; 1956 July p. 64; Oct. p. 96, 98; 1964 Sept. p. 82; Dec. p. 62; 1965 Apr. p. 56; Dec. p. 29, 32, 34, 36; 1969 Oct. p. 91; 1972 Nov. p. 104. Fitch, Walter M., 1972 Apr. p. 64; 1975 Aug. p. 56. Fitting, James, 1966 June p. 112. Fittkau, E. J., 1973 Dec. p. 62. Fitts, Paul M., 1968 Aug. p. 92. Fitzgerald, F. Scott, 1954 Apr. p. 64; 1967 Jan. p. 106. Fitzgerald, George F., 1950 Sept. p. 28; 1953 Nov. p. 93, 94, 96, 98; 1964 Nov. p. 114; 1966 Aug. p. 95. Fitzgerald, Patrick J., 1963 Aug. p. 104. FitzGerald, William, 1953 Nov. p. 93. Fitzpatrick, James L. G., 1953 Jan. p. 70. Fitzpatrick, Thomas B., 1975 July p. 73. Fitzroy, Robert, 1956 Feb. p. 62-64, 66, 68, 72. Fiume, Luigi, 1975 Mar. p. 96-98. Fizeau, Armand H. L., 1955 Aug. p. 62-64; 1964 Nov. p. 111, 113; 1971 May p. 83. Fjeldbo, Gunnar, 1969 Mar. p. 81-83. Flagg, John E., 1968 Feb. p. 96. Flaks, Joel G., 1964 July p. 45; 1966 Apr. p. 106. 107, Flament, Claude, 1970 Nov. p. 99. Flamm, E. J., 1965 May p. 34, 35. Flamsteed, John, 1955 Dec. p. 76; 1977 May p. 81. Flandern, Thomass C. van, 1974 Oct. p. 56.

Flanigan, W. J., 1962 Aug. p. 100. Flannelly, Kevin, 1977 May p. 106, 113. Flannery, Kent V., 1968 Nov. p. 102, Flashman, Stuart M., 1976 Jan. p. 74, 76. Flatau, Theodor S., 1974 Mar. p. 84. Flatgaard, Jeffrey, 1967 July p. 71. Flather, Edith M., 1965 Feb. p. 96, 99, 100. Flatt, Immanuel, 1976 July p. 110. Flavius, 1977 Dec. p. 161. Fleckenstein, A., 1955 Mar. p. 53. Flehinger, B. J., 1969 Dec. p. 112, 113, 120. Fleischer, R. L., 1967 June p. 51; 1969 Feb. p. 53; 1973 July p. 71, 72; 1976 Dec. p. 114, Fleischer, Sydney, 1964 Jan. p. 70, 72. Fleischmann, T. Blaise, 1972 Feb. p. 27. Fleming, Alexander, Sir, 1949 Mar. p. 48; Aug. p. 26, 28, 29, 35; 1950 Dec. p. 31; 1952 Jan. p. 32; 1953 Oct. p. 82; 1955 May p. 33; 1960 June p. 132, 133; 1961 Mar. p. 67; 1964 Oct. p. 80; 1966 Nov. p. 78, 90; 1967 Nov. p. 27; 1969 Apr. p. 116; May p. 96, 98; 1973 Sept. p. 106. Fleming, G., 1964 Jan. p. 108. Fleming, John A., 1948 Sept. p. 53; 1950 Oct. p. 33; 1954 Apr. p. 65; 1965 Mar. p. 96; 1969 Mar. p. 104-112. Fleming, R., 1969 Nov. p. 31. Fleming, Robben W., 1978 June p. 83. Flemings, Merton C., 1974 Dec. p. 88, 92. Flemming, Arthur S., 1949 Apr. p. 26; 1959 Oct. p. 80. Flemming, Walther, 1953 Aug. p. 54; 1968 June p. 81, 83, 84, 86; July p. 55. Flerko, Bela, 1976 July p. 48. Flerov, Georgii N., 1969 Apr. p. 59. Fletcher, Andrew, 1972 Sept. p. 153. Fletcher, Harvey, 1948 July p. 40; 1961 Aug. p. 82, 83; 1963 Nov. p. 89, 91; 1965 Dec. p. 88; 1974 Nov. p. 80. Fletcher, Joseph O., 1954 Dec. p. 40-45, 44, 45. Fletcher, Stuart L. Jr., 1956 Jan. p. 30. Fleury, P. A., 1968 Sept. p. 124. Flexner, Abraham, 1973 Sept. p. 140-142. Flexner, Josefa B., 1967 June p. 116. Flexner, Louis B., 1952 July p. 70; 1967 June p. 116, 120. Fling, Marguerite, 1968 May p. 112. Flinn, Edward A., 1973 Mar. p. 26, 28. Flint, Richard F., 1952 Aug. p. 58, 59. Floberg, John F., 1958 Aug. p. 50; 1959 Apr. p. 64; 1960 Apr. p. 88. Flocks, Milton, 1963 July p. 42. Flodin, N. W., 1953 Feb. p. 36. Floersheim, George L., 1975 Mar. p. 98. Flood, H. William, 1972 Oct. p. 30; 1976 July Flood, Merrill M., 1967 July p. 51. Florence Academy, 1975 Nov. p. 102. Florendo, Noel T., 1977 Aug. p. 109, 111. Florensov, N. A., 1977 Apr. p. 38. Flores, Jose, 1972 June p. 42. Florey, Howard, Sir, 1949 Aug. p. 28, 33, 35; 1952 Jan. p. 32; 1961 Mar. p. 70; 1963 June p. 88; 1967 Nov. p. 27; 1969 Feb. p. 105; 1973 Sept. p. 106. Florida Game and Fresh Water Fish Commission, 1969 Jan. p. 50. Florida Livestock Board, 1960 Oct. p. 54, 58. Florida State Board of Health, 1958 Mar. p. 41. Florida State Museum, 1963 May p. 125. Florida State University, 1963 Nov. p. 112, 113; 1964 Feb. p. 39; 1966 Sept. p. 208. Florman, E. F., 1955 Aug. p. 65. Flory, Donald A., 1972 Oct. p. 82. Flory, Paul J., 1974 Dec. p. 60. Flounders, Ben, 1961 Mar. p. 73, 74.

Flower, Andrew R., 1978 Mar. p. 42. Flower, S. S., 1961 Aug. p. 113. Flowerman, Samuel, 1954 Aug. p. 42. Flowers, Edwin C., 1957 July p. 65. Flowers, Harold M., 1969 May p. 97. Fludd, Robert, 1968 Jan. p. 115-119. Flügge, S., 1949 Nov. p. 27; 1958 Feb. p. 84. Fluke, D. J., 1954 Dec. p. 65. Flyger, Vagn, 1968 Feb. p. 109, 111. Foà, L., 1973 Nov. p. 42. Focas, J. H., 1968 Feb. p. 82. Fock, Vladimir A., 1970 Apr. p. 54, 56-58, 70. Focke, Heinrich, 1955 Jan. p. 37, 38; 1967 Apr. p. 39. Focke, Wilhelm O., 1968 July p. 55. Fodor, Jerry A., 1970 Dec. p. 30. Foege, William H., 1976 Oct. p. 30. Foelsche, Trutz, 1968 May p. 77, 78. Foerster, C. S., 1948 Oct. p. 34. Foerster, Otfrid, 1970 Feb. p. 86. Foerster, Russell E., 1955 Aug. p. 73. Foex, Gustave, 1974 June p. 114. Fogarty, John E., 1971 Apr. p. 23. Fogg Art Museum, 1973 Sept. p. 77. Fogg, G. E., 1977 Aug. p. 90. Fogh, Jorgen, 1955 Sept. p. 76. Fogle, Benson, 1963 June p. 53. Fokker, H., 1965 Apr. p. 124. Fol, Hermann, 1959 July p. 126; 1968 June p. 84; 1976 July p. 100; 1977 Nov. p. 129. Foley, Edward J., 1977 May p. 64. Foley, H. M., 1965 Dec. p. 39. Foley, Richard J., 1977 Feb. p. 93. Folk, G. E., 1957 Nov. p. 112. Folk, J. E., 1962 Mar. p. 63, 64. Folkes, Joan P., 1954 Oct. p. 49; 1955 July p. 54. Folkman, G. E., 1965 Apr. p. 114. Folley, S. J., 1957 Oct. p. 128. Follin, James W., 1954 Mar. p. 63. Folling, Asbjorn, 1956 Dec. p. 127. Folsom, Frank M., 1955 May. p. 50; 1956 Mar. p. 49. Folsom, Marian B., 1958 Sept. p. 88. Foltz, Calvin M., 1972 July p. 59. Fomalont, Edward B., 1970 Aug. p. 44. Fonbrune, Pierre de, 1950 Oct. p. 49; 1952 Apr. p. 59; 1958 July p. 69. Foner, S. N., 1957 Mar. p. 96, 102. Foner, Simon, 1965 Apr. p. 72; 1970 May p. 57; 1971 Nov. p. 30. Fontaine, M., 1958 Oct. p. 43. Fontaine, T. R., 1952 Apr. p. 57. Fontan, Alfred, 1972 Jan. p. 94, 96. Fontana, Domenico, 1951 June p. 58, 59; 1954 Nov. p. 102; 1963 Nov. p. 96. Fontana, Franciscus, 1970 May p. 27. Fonte, Ginny, 1975 Aug. p. 37. Fontenelle, Bernard de, 1977 June p. 124. Food Machinery and Chemical Corporation, 1953 May p. 33; 1954 Sept. p. 112; 1963 Sept. p. 136. Foote, J. S., 1970 Mar. p. 92. Foote, Robert S., 1963 Dec. p. 38, 40. Forbes, Edward W., 1952 July p. 22, 25; 1953 May p. 88. Forbes, Fred F., 1968 Aug. p. 59. Forbes, James, 1955 June p. 59. Forbes, William F., 1970 Aug. p. 81. Forbus, Wiley, 1952 Feb. p. 52 Forbush, Scott E., 1949 Mar. p. 29, 38; 1964 Apr. p. 66; 1975 Sept. p. 171. Forchhammer, Johann, 1970 Nov. p. 105. Ford, Alice, 1952 Jan. p. 64. Ford, Charles E., 1961 Nov. p. 69; 1963 July Ford, Christopher, 1976 Aug. p. 71. Ford, E. C., 1974 Nov. p. 61.

Ford, Edmund B., 1957 May p. 126. Ford, Edsel, 1957 May p. 62. Ford Foundation, 1953 Mar. p. 44; 1954 Sept. p. 70; 1955 July p. 52; 1958 Feb. p. 40; 1963 Sept. p. 171; 1966 Sept. p. 101; 1970 Sept. p. 162; 1971 Feb. p. 86; Mar. p. 20; 1974 Aug. p. 48; Sept. p. 182; 1975 Dec. p. 27; 1976 Sept. p. 38. Ford, Frank, 1972 Apr. p. 82. Ford, Frank R., 1959 Nov. p. 70. Ford, Gerald R., 1975 Jan. p. 34, 48; Mar. p. 47, 48; 1976 Jan. p. 22, 24; Mar. p. 60A; June p. 22, 23; July p. 60; Nov. p. 64; Dec. p. 25; 1977 Sept. p. 100; Nov. p. 44; 1978 May p. 46. Ford, Henry, 1957 May p. 62; 1973 Mar. p. 88; 1975 Feb. p. 23; Mar. p. 17. Ford, James A., 1955 Mar. p. 98. Ford, K. L., 1978 Jan. p. 78. Ford, Kenneth W., 1965 Apr. p. 66; 1969 June p. 38; 1975 Oct. p. 52; 1977 Apr. p. 123. Ford, Lester R. Jr., 1970 July p. 95. Ford Motor Company, 1955 Oct. p. 44; 1957 May p. 62; 1959 Jan. p. 62; 1963 July p. 36, 42; Aug. p. 72, 73, 76, 77, 81; 1964 Apr. p. 42, 45, 49; 1966 Sept. p. 183, 188; Nov. p. 66; Dec. p. 65; 1973 Aug. p. 82, 83; 1975 Jan. p. 41; Apr. p. 53; Aug. p. 48; Nov. p. 58; 1977 Aug. p. 103, 106; 1978 Feb. p. 74. Ford, N. C., 1968 Sept. p. 124. Ford, P. J., 1969 Dec. p. 28. Ford, Richard I., 1978 Jan. p. 117. Ford, W. Kent Jr., 1973 June p. 32, 33, 36; 1978 May p. 73, 74. Fordham University, 1963 Mar. p. 45. Fordlandia, 1964 Nov. p. 102. Forel, Auguste, 1948 June p. 18; 1953 July p. 60; 1974 July p. 28. Forest, Herman S., 1970 Sept. p. 137. Forestier, Jacques, 1961 Apr. p. 88. Forlanini, Enrico, 1955 Jan. p. 37. Formal, Samuel B., 1965 July p. 99. Forman, Simon, 1952 Oct. p. 74. Formozov, A. N., 1960 Jan. p. 67, 68. Forn, Javier, 1977 Aug. p. 115, 117. Forni, Luciana, 1976 May p. 38. Forrat, F., 1968 June p. 23. Forrest, David V., 1977 Mar. p. 64. Forrest, H. S., 1962 Apr. p. 102, 108. Forrest, M. J., 1969 Dec. p. 52. Forrestal, James, 1949 Apr. p. 26. Forro, F., 1954 Dec. p. 65. Forsaith, J. A., 1963 Nov. p. 99. Forsham, Peter H., 1963 July p. 51. Forsheit, Arleen, 1973 Aug. p. 27. Forshufvud, Sten, 1962 Aug. p. 56; 1967 Apr. p. 79. Forskål, Peter, 1961 Jan. p. 150; 1969 Dec. p. 36. Forsling, Wilhelm, 1957 Aug. p. 58. Forssmann, Werner, 1956 Dec. p. 52; 1967 Nov. Forster, E. M., 1949 Dec. p. 32. Forster, Georg, 1967 Aug. p. 61. Forster, J. R., 1967 Aug. p. 61. Forster, Theodor, 1974 Dec. p. 80. Forsyth, W. D., 1974 Sept. p. 100. Fortas, Abe, 1969 Feb. p. 15. Fortes, Meyer, 1960 Sept. p. 81; 1963 Aug. Fortunatov, F. F., 1972 Sept. p. 80. Forward, Paul, 1967 Jan. p. 47. Forward, Robert L., 1969 Dec. p. 95. Fosberg, F. R., 1963 June p. 43. Foskett, D. J., 1954 Mar. p. 52. Foster, Brendan, 1976 June p. 110, 111. Foster, Delbert, 1970 Oct. p. 60. Foster, Hal, 1953 Aug. p. 42.

Foster, John S Jr., 1949 Feb p 19, 1953 Jan p 38, 1957 Sept p 107, 1967 July p 33, 40, 1969 Aug. p 18, 1971 Nov p 48, 1972 June p 24, Aug p 44, Nov p 22, 1973 Nov p 23, 1975 Oct p 22 Foster, Michael, 1968 June p 84 Foster, William C, 1969 Oct p 22, 1971 Mar p 44, 1972 Nov p 20, 22, 23 Fothergill, Leroy D, 1949 Sept p 19 Fou, G, 1971 Apr p 53 Foucault, Jean B L, 1951 Dec p 49, 1955 Aug p 63, 64, 1957 Feb p 100, 106, 1971 May p 83, 84 Fouche, M., 1973 July p 30 Foulds, Leshe, 1976 May p 73 Foundation for Child Development, 1976 July p 65 Foundation for Medical Technology, 1962 Oct p 54 Foundation for Research on the Nature of Man, 1974 Sept p 72 Fountain, John, 1968 Feb p 74 Fourcroy, Antoine F de, 1953 Jan p 40, 48 Fourdrinier, Henry, 1974 Apr p 58 Fourdrinier, Sealy, 1974 Apr p 58 Fourier, Jean B J, 1952 Sept p 59, 1953 Nov p 93, 1954 Oct p 33, 1961 Aug p 73, Dec p 100, 1968 Sept p 102, 76, 78, 80-82 Fourier, Joseph, 1960 July p 145 Fournier, Georges, 1953 May p 66, 71, 73 Fourtner, C R., 1978 Feb p 100 Fourtner, Charles R., 1976 Dec p 83 Fouts, James R., 1970 Apr p 75 Fowler, C. M., 1965 Jan p 50, Apr p 72, July p 64, 68, 73, 66, 65 Fowler, Charles, 1974 Feb p 94 Fowler, David H, 1976 Mar p 60D, Apr p 65 Fowler, E C, 1966 Aug. p 42 Fowler, Henry W, 1956 Aug p 59, 1977 Mar p 108 Fowler, John, 1954 Nov p 67 Fowler, John M, 1963 Nov p 64 Fowler, Peter H, 1969 June p 37, 1973 July Fowler, R. H., 1949 Nov p 43, 1964 Jan. p 108, 1966 Dec p 119, 122, 1973 Dec p 55, 1977 Oct p 47 Fowler, Richard G, 1954 Sept p 132 Fowler, Ruth E, 1970 Dec p 45 Fowler, T K., 1966 Dec p 21, 1967 July p 76 Fowler, W B, 1953 Sept. p 80 Fowler, William A, 1950 Jan p 44, 1956 June p 60, Sept p 166, 93, 1960 Apr p 85, Nov p 184, 1961 Feb p 51, 1962 Apr p 63, 1963 Mar p 78, Sept p 86, Dec p 60-62, 1964 Nov p 47, 1966 Dec p 51, 1969 July p 29, 30, 36, 1973 Feb p 103, 1974 Jan p 50, 72, 74, 1976 Dec p 95 Fowles, G R., 1973 Feb p 89 Fox, Arthur L, 1952 May p 68 Fox, C Fred, 1974 Mar p 27 For, Charles J, 1969 July p 41 Fox, Clement A, 1975 Jan p 60 Fox, Eugene N, 1966 Dec p 65 For, Varshall, 1959 Nov p 114 Fox, Sidney W. 1964 Apr p 64, 1972 Oct Fox, Stephen S. 1970 Jan p 36 For, William W. 1976 Apr p 56 Forboro Company, 1977 Sept p 188, 190 Foy, P W, 1970 Oct p 54 Foyn, Svend, 1956 Dec p 46 Fraus, Arthur P., 1971 June p. 21 Fradkin, E.S., 1978 Feb p 141 Fraenkel, Abraham, 1967 Dec p 106, 114, 116 Fraenkel, Gottfried, 1953 Feb p 30, 31 I raenkel Ludwig, 1958 Apr p 40

Fraenkel-Conrat, Heinz, 1955 July p 78, 1956 Oct p 88, 1957 Sept. p 198, 1960 July p 82, 1961 Jan p 80, Feb p 83, 1962 July p 78, 1964 Oct p 53, 1966 Oct p 58, Dec p 32, 1968 Apr p 61 France, Anatole, 1974 July p 111 Francesca, Piero della, 1973 May p 24 Franceschetti, A., 1957 Apr p 62 Franchet, L, 1975 Feb p 41 Francheteau, Jean, 1977 Apr p 32 Francis, Thomas Jr, 1955 June p 46,47 Franck, James, 1948 Aug p 29, Nov p 24, 1949 Sept p 14, 16, Dec p 17, 1959 July p 74, Oct p 98, 99, 1965 July p 83, 1968 Sept p 158, 160, 1969 Feb p 36 Franck, Kate, 1958 Sept p 154 Francke, Christoph B, 1968 May p 95 Franco, Francesco, 1954 Mar p 39 Franco, S Charles, 1953 Apr p 48 François, Henri, 1975 Feb p 42 François, Marcel, 1964 Nov p 116 Frank, Arlen W, 1959 July p 116 Frank, F C, 1951 Oct p 54, 1955 Mar p 74, 76, July p 82, 1960 July p 69, 1961 Oct p 110, 111, 114, 1976 Aug p 54, 1977 Dec p 130 Frank, Heddy, 1960 Dec p 154, 156 Frank, Howard, 1970 July p 94, 98, 100 Frank, Ilya M, 1958 Dec p 52, 1967 Nov Frank, James, 1967 Nov p 26 Frank, Josette, 1969 Apr p 37 Frank, Karl, 1966 May p 109 Frank, Lawrence K., 1960 Sept p 98 Frank, Louis A., 1959 Nov p 87, 1963 May p 89, 1965 Mar p 67, Dec p 59 Frank, Michael, 1973 Nov p 66 Frank, Neil, 1971 Mar p 46 Frank, Otto, 1965 May p 93 Frank, S G F, 1965 Dec p 31 Frank, Teney, 1974 Sept p 95 Frank W Horner Ltd, 1962 Aug p 30 Frank, William H, 1955 June p 56 Frankel, Ludwig, 1958 Apr p 41 Frankel, Stanley P, 1965 Aug p 56 Franken, Peter A, 1960 Oct p 78, 1962 Jan p 62, 1963 July p 42, 1964 Apr p 39, 40, 43 Frankfurter, Felix, 1951 July p 30 Frankie, Gordon W, 1973 Apr p 97 Frankl, L, 1950 Feb p 47 Frankl, Paul, 1972 Nov p 91, 95 Frankland, Edward, 1950 Sept p 32 Frankland, Edward, Sir, 1973 Dec p 50 Franklin, Benjamin, 1948 Aug. p 36-39, 40-43, 1949 Feb p 22, Dec p 56, 1950 Feb p 40, 43, 1951 Sept p 43, 1954 July p 73, 75, Sept p 60, Oct p 68, 1955 July p 69, 70, 1957 July p 119, Nov p 47, 1958 Apr p 56, June p 74, 1959 May p 61, 1963 Oct p 42, 1965 Jan p 82, 85, 86, 90, 1967 Dec p 58, 1970 Feb p 85, Aug. p 92, 96, 1972 Mar p 57, Apr p 57, 1976 May p 107, 89, 90, July p 117, 124 Franklin, Dean L. 1974 Nov p 96 Franklin, Fred A. 1975 Jan. p 25 Franklin, G, 1972 Feb p 31 Franklin, John C, 1949 July p 33 Franklin, John H. 1967 Apr p 23 Franklin, Kenneth L. 1952 July p 72, 1955 June p 52 Franklin, Philip, 1977 Oct p 112 Franklin, Rosalind, 1954 Oct p 57, 1975 Nov p 37 Frankuchen, I. 1936 Apr p 79 Frantz, Samuel, 1975 Nov p 50 Franz, Rudolph, 1967 Sept p 182. Franz, Shephard I., 1954 Jan p 49, 1970 Mar

p 68 Franz, V, 1971 Jan p 69 Franzblau, C, 1963 Apr p 107 Franzinetti, C, 1956 June p 41 Franzini, Paolo, 1966 Aug p 42, 1967 Jan Franzini-Armstrong, Clara, 1970 Apr p 86, 1974 Feb p 64 Frasch, Herman, 1970 May p 65, 66, 70, 72 Fraser, Alistair B, 1976 Jan p 102 Fraser, David W, 1978 Feb p 81 Fraser, Dean, 1953 May p 37, Nov p 54, 1954 Mar p 34, Dec p 62, 1956 June p 44 Fraser, Donald, 1972 Nov p 82 Fraser, Frances C, 1962 Sept p 189, 1965 Nov p 113 Fraser, Havelock, 1958 Jan p 62 Frauenfelder, Hans, 1963 Oct. p 45 Fraunhofer, Joseph von, 1948 May p 51, 1952 June p 48, 1967 Sept p 239, 240, 245, 1968 Sept p 72, 74, 75, 77, 1970 May p 116 Frautschi, Steven C, 1964 Feb p 93, 1974 May p 117, 1975 Feb p 63 Frazer, James, Sir, 1950 Sept p 87, Oct p 54, 1955 July p 73, 1956 May p 70, 1975 Dec Frazer, William R., 1963 Jan p 44, 1971 July p 100, 101 Frazier, Bill, 1960 Feb p 44 Frazier, Howard, 1971 Aug. p 20 Frazier, Wesley T, 1970 July p 64 Fred, Edwin B, 1950 Dec p 26, 1952 Jan Freda, Vincent J., 1966 Mar p 58, 1968 Nov Freden, Stanley C, 1963 May p 87 Frederick, Charles W, 1976 Aug p 79 Frederick, Duke of York, 1969 July p 42 Frederick I, King of Prussia, 1969 July p 43 Frederick the Great, 1955 Oct p 100, 103, 1969 July p 43, 46, 1976 Jan p 115 Fredericq, Leon, 1968 May p 106 Fredericq, Pierre, 1975 Dec p 33 Frederikse, H P R., 1973 May p 36 Fredickson, Donald S, 1977 May p 55 Fredj, Mohammed Ben, 1959 Dec p 140 Fredriksson, Kurt, 1960 Feb p 126 Free, Lloyd A, 1963 Feb p 41 Free University of Berlin, 1963 Nov p 108, 1966 Nov p 88 Free University of Brussels, 1957 Dec p 124, 1963 May p 70, Dec p, 1966 Nov p 118 Freedman, D G, 1958 May p 60 Freedman, Daniel, 1974 July p 57, 1977 July p 59 Freedman, Daniel Z, 1978 Feb p 126, 141 Freedman, H L, 1969 Dec p 23-25 Freedman, Lawrence Z., 1953 June p 50, 1960 Mar p 145 Freedman, Ronald, 1965 June p 56 Freedmen Hospital, 1950 July p 29 Freeman and Company, 1950 Sept. p 32 Freeman, Arthur I, 1965 Apr p 127, July p 65, 1967 Mar p 115 Freeman, B M, 1959 Jan p 42. Freeman, Clarence, 1965 Mar p 94, 95 Freeman, Frank N, 1962 Aug. p 67 Freeman, H A, 1967 Sept. p 124 Freeman, Harry, 1949 July p 44 Freeman, Ira, 1949 Dec p 56, 57 Freeman, Mae, 1949 Dec p 56, 57 Freeman, Natalie, 1972 Dec. p 20 Freeman, Richard R., 1976 Feb p 55 Freeman, Smith, 1950 Mar p 35 Freeman, Walter, 1948 Oct p 37, 1950 Feb p 44, 47 Freeport Sulphur Company, 1951 Oct. p 34

Freer Gallery of Art, 1963 Nov p 130 Freese, Ernst, 1958 June p 42, 1961 Apr p 82, 1962 Jan p 83 Freeze, R Allan, 1974 Oct p 63 Frege, Gottlob, 1962 Apr p 90, 1964 Sept p 116, 118, 1967 Dec p 105, 1969 June p 70, 1973 Mar p 101, 103, 105, May p 82 Frei, Emil III, 1964 July p 69 Frei, Eva. 1968 June p 105 Freier, Phyllis, 1949 Mar. p 34, 1950 Oct p 15, 1960 June p 69 Freimer, Earl, 1966 Dec p 65. Freireich, Emil J. 1964 July p 69 Freistadt, Hans, 1949 July p 26 Frejka, Tomas, 1971 Apr p 50, 1973 Mar p 15, 1974 Sept p 33 French Academy of Sciences, 1952 Jan p 72, 1956 May p 109, 1957 May p 91, 1958 Feb p 78, Oct p 37, 1960 Oct p 163, 1963 Oct p 65, 1964 Jan p 104, May p 113, 1965 June p 112, 1970 July p 18, 1971 Oct p 96, French Agronomical Institute, 1965 Apr p 38 French Atomic Energy Commission, 1949 Apr p 25, 1975 Apr p 21, June p 44, 1976 July p 36, 41, 43 French Bureau de Recherches Geologiques et Minieres, 1977 Nov p 75 French Bureau of Longitudes, 1964 Feb p 54 French, C S, 1953 Oct p 32 French, C Stacy, 1965 July p 80, 82, 1974 Dec p 73 French Center for Nuclear Studies, 1966 July p 77, 78, Nov p 64 French Centre de Recherches Petrographiques et Geochimiques, 1977 Apr p 34 French Conservatoire National des Arts et Metiers, 1963 Apr p 139 French, Dexter, 1962 July p 88 French Haute-Provence Observatory, 1977 Aug French Institut National d'Études Demographiques, 1974 Sept p 46 French Institute d'Astrophysique, 1962 Apr p 63 French Institute for Cancer Research, 1964 June p 48 French Institute for the Chemistry of Natural Substances, 1977 May p 76 French, J. D., 1957 May p. 54, 1959 Aug. p. 95, 1966 Aug. p. 85, 1967 Feb. p. 66 French Laboratoire de Genetique Physiologique (Gif), 1969 Apr p 28 French Laboratoire de Recherches Techniques, 1962 May p 104 French Ministry of Culture, 1969 May p 42 French National Assembly, 1970 July p 18 French National Center for Scientific Research, 1954 Dec p 54, 1963 Jan p 44, 1965 Oct p 15, 1970 Aug p 46, 1972 Oct p 47 French National Institute of Agronomic Research, 1975 Mar p 100 French National Institute of Statistics, 1968 Jan p 24 French National Museum of Natural History, 1966 Mar p 99 French National Office of Aerospace Studies and Research, 1957 May p 103, 1974 Dec p 92 French National Utility Company, 1977 Mar French, R. A, 1963 Dec p 136 French Royal Academy of Architecture, 1974 Oct p 86 French Society for the Encouragement of National Industry, 1970 Oct p 115

French, Vernon, 1977 July p 67, 71

French-American Mid-Ocean Undersea Study, 1975 Aug p 79-81, 85 Frenkel, Albert W., 1960 Nov p. 112, 116, 1965 July p 77 Frenkel, Nizz, 1973 Oct p 33 Frenkel, Y 1, 1949 Nov p 27, 1967 Sept p 224 Frere, John, 1959 Nov p 168, 172 Freshwater Biological Association, 1977 Aug p 97 Fresnel, Augustin J., 1953 Nov p 94, 1954 May p 83, 1958 Apr p 56, 1964 Mar p 108, Nov p 108, 1966 June p 35, 36, 1968 Sept p 50, 67, 74, 1971 July p 94, 103, 1977 Apr p 122 Freter, Rolf, 1965 July p 99, 1978 Jan p 91 Fretter, W B. 1949 Mar p 29, 36, 37, 1952 Jan p 22, 25 Freud, Anna, 1949 Oct p 53 Freud, Sheldon, 1966 Feb p 54 Freud, Sigmund, 1949 Jan p 22-27, May p 44-47, Oct p 50-54, 1950 Mar p 40, 43, Sept p 80, 87. Dec p 42, 1951 May p 60, 62, July p 20, 1953 Jan p 58, 1954 Jan p 48, Nov p 89, 1955 May p 74, 80, Nov p 31, 1956 Feb p 31, 1957 Aug p 104, Nov p 138, 136, 1958 Sept p 60, 1962 Aug p 66, Nov p 137, 1964 Feb p 121, Apr p 32, 1967 Sept p 106, 1969 Feb p 69, 1970 May p 105, 106, Aug p 102, 1972 Jan p 34, Sept p 93, 1973 Dec p 110, 1977 Jan p 49, Nov p 75 Freudenberg, Karl, 1962 July p 88 Freund, Jules, 1949 July p 17, 18 Freund, Rudolf, 1961 Aug p 43 Frey, A J, 1956 July p 50 Frey, Edmund, 1967 Oct p 62 Freye, G M Jr, 1969 Nov p 57 Freyssinet, Eugène, 1958 July p 26 Friberg, Lars, 1971 Aug p 47 Fricke, Hugo, 1959 Sept p 76 Fricker, Peter E, 1969 Mar p 87, 88 Friday, William C, 1978 June p 83 Fried, Marc, 1965 Sept p 199 Fried, Mike, 1967 Apr p 32 Fried, S., 1956 Dec p 67 Friedel, G, 1964 Aug p 77, 79 Friedel, R A, 1955 July p 66 Frieden, Bernard, 1965 Sept p 197 Frieden, Earl, 1966 May p 76 Friedewald, W. F., 1954 June p. 72 Friedkin, Morris E, 1968 Oct p 67 Friedlander, M W, 1969 June p 37 Friedman, Arnold M, 1957 Aug p 58 Friedman, G M, 1972 Dec p 31 Friedman, Henry T, 1955 Dec p 33, 1957 Jan p 68 Friedman, Herbert, 1960 Mar p 88, 1963 Dec p 68, 1964 June p 36, Sept p 86, 1966 Apr p 50, June p 41, 1967 Dec p 39, 43, 1969 July p 52, 1975 Sept p 44 Friedman, Herman, 1973 Jan p 31 Friedman, Irving, 1961 Nov p 60 Friedman, Jerome I, 1957 Mar p 63, 1975 June p 52 Friedman, Lester, 1962 Nov p 99, 1971 Aug Friedman, Milton, 1955 Feb p 80, 1972 Oct p 19, 1973 Sept p 165, 1976 Dec p 52 Friedman, Minam, 1964 Nov p 54 Friedman, Theodore, 1971 Nov p 34 Friedman, William F, 1966 July p 42-44 Friedmann, Alexander A , 1954 Mar p 58 1956 Sept p 140, 145, 1967 June p 28, 1970 June p 29, 33 Friedmann, Theodore, 1973 Aug p 94 Friedrich, Josef, 1963 Mar p 134 Friedrich, Walter, 1952 Dec p 40, 1961 Dec

p 98 Friedrichs, K. O., 1969 Mar p. 70 Friedrich-Wilhelm Institute of Medicine and Surgery, 1958 Mar p 94 Frieman, Edward, 1951 June p 32 Friend, Charlotte, 1974 July p 44 Friend, Daniel S., 1978 May p 143, 144 Friend, James P, 1971 Jan p 40 Friend, James R, 1968 Sept p 194 Friend, W G, 1978 June p 140 Friendly, Fred, 1966 Sept p 101 Friesem, Albert, 1965 June p 25, 1968 Feb Frus, Harald T, 1958 Sept p 125, 128 Frimmer, Max, 1975 Mar p 96 Frings, Hubert, 1956 Aug p 54 Frings, Mable, 1956 Aug p 54 Frisch, H L , 1962 Nov p 94, 100, 1975 Apr p 38 Frisch, Ivan T, 1970 July p 94 Frisch, Karl von, 1948 Aug p 18-21, Dec p 24, 1949 Sept p 30, 1950 May p 29, 1951 June p 32, 1953 July p 60, 62, 1954 Apr p 35, Oct p 74, 75, 1955 July p 88-90, Aug p 57, 59, 60, 73, 1963 Feb p 62, May p 104, 1964 Apr p 118, 1967 Apr p 97, 98, 100, 1970 Oct p 60, 1972 Sept p 53, 54, 1973 Dec p 50, 1976 July p 106 Frisch, Otto R., 1949 Oct p 26, Nov p 41, 1956 Mar p 93, 1958 Feb p 82, 1959 Feb p 37, 1966 Jan p 90, 1968 Oct p 45, 1972 Feb p 71 Frisch, Ragnar, 1969 Dec p 48 Frisch, Rose E, 1974 Sept p 46, 48, 162 Frisken, William R., 1978 June p 66 Fnth, H J, 1974 Oct p 93 Fritsch, Gustav T, 1948 Oct p 30, 33, 1973 July p 96 Fritsch, Klaus, 1968 Sept p 124 Fritts, Donald, 1975 Jan p 86 Fritz, Emanuel, 1961 Apr p 150 Fritz, G, 1969 July p 52 Fritz, Hans von, 1971 Mar p 32 Fritz, Kurt von, 1977 June p 106 Fritzche, Hellmut, 1969 Nov p 33 Fritzsche, Hellmut, 1977 May p 40, 41 Frobenius, Leo, 1948 Dec p 48 Froede Walter G, 1972 Aug p 16 Froehlich Fritz, 1973 Feb p 97 Frohlich Herbert, 1957 Nov p 94, 1971 Nov p 26 Froissart Marcel, 1973 Nov p 44 Frolov, P K, 1965 May p 102 Froman, Darol K, 1949 Oct p 21 Fromm Erich, 1958 May p 77 Fromm, Jacob E 1966 Sept p 165 Fromm-Reichmann, Frieda 1962 Aug p 66 Frontinus, Sextus Julius, 1978 May p 154, 157 Froome K D 1955 Aug p 65 66 Frost Kenneth J, 1976 Oct p 78 Frost, Robert, 1963 Oct p 35 1968 Mar p 80 Froude, William 1966 Aug p 64, 66 Fruton, Joseph S 1951 Mar p 41, 1953 Sept p 100, 1955 May p 36 1961 Feb p 86 1964 Dec p 71 Fry, F E J, 1969 Mar p 20 Fry, Gary F, 1975 Jan p 103 Fry, Glenn A, 1972 June p 99 Fry, James, 1977 Nov p 89 Fry, John, 1973 Sept p 79, 80 Fry, Patricia, 1955 Mar p 104 Fry, William J. 1965 Nov p 40 Frye, David, 1974 Mar p 32, 1975 Oct p 32 Frye, Jearl F, 1974 Jan p 55 59 Frye, Larry D., 1976 May p 31, 38 39 Fryell, Roald, 1968 June p 44, 1972 Oct p 87 Fuccillo, David A, 1974 Feb p 35

Fuchs, Edward O, 1962 June p 65 Fuchs, Klaus, 1948 July p 47, 1950 Apr p 22, 30, 1951 May p 34 Fuchs, L H, 1975 Feb p 35 Fuchs, Leonhard, 1965 June p 110-112, 115 Fuchs, Victor R., 1969 Apr p 48 Fuchs, W, 1974 Apr p 91 Fudenberg, H Hugh, 1974 Nov p 69 Fuerst, Clarence, 1961 June p 94 Fuerstenau, Douglas W, 1956 Dec p 108 Fughster, Frederick C, 1955 Sept p 102, 104, 1976 Aug p 44B Fujimoto, K., 1964 Dec p 54 Fujimura, R. K., 1969 Oct p 29 Fujimura, Y , 1971 May p 20 Fujita, T Theodore, 1975 June p 49 Fukada, E., 1965 Oct p 18, 21 Fukasawa, H, 1969 May p 23, 24 Fukasawa, Toshio, 1970 Jan p 91 Fukuda, Kouhei, 1963 Dec p 72 Fukui, S., 1961 July p. 74, 1962 Aug p. 41-43 Fulbright Foundation, 1953 Jan p 27, 1960 Nov p 133 Fulbright, J William, 1949 Feb p 28, 1955 Feb p 35, 1978 Feb p 76 Fulco, Jose R., 1963 Jan p 44, 1971 July p 101 Fulkerson, Delbert R, 1970 July p 95 Fulkerson, William, 1971 May p 18 Fullam, Ernest F, 1961 Oct p 110, 1974 Dec Fuller, Harry J, 1954 Dec p 60 Fuller, K L, 1972 Jan p 52 Fuller, R. Buckminster, 1967 Sept p 76, 1977 Aug p 99 Fuller, Ray W, 1974 Feb p 89 Fullerton, Pamela, 1971 Feb p 20 Fullman, R. L, 1955 July p 81 Fulton, C D, 1956 June p 64 Fulton, John, 1975 Mar p 79 Fulton, John F, 1948 Oct p 27, 37, 1955 Feb p 70, 1970 Mar p 69 Fulton, R., 1960 May p 88 Fulton, R. J., 1976 Aug p 31, 35 Fulton, Robert, 1949 Dec p 56, 1967 Mar p 105 Fultz, Dave, 1955 Sept p 116, 1956 Dec p 44, 1970 July p 73 Fulwyler, Mack J, 1976 Mar p 111 Funatsu, Gunku, 1964 Oct p 51 Fund for the Republic, Inc., 1960 Dec p 76 Fung, Ko, 1971 Sept p 59 Fung Y1, 1978 June p 74 Funk, Casimir, 1970 Dec p 88 Funke, G L, 1949 Mar p 50 Funkenstein, Daniel H, 1955 June p 34, Oct Funnel, Brian, 1967 July p 33 Funnelli, B M, 1967 Feb p 53 Fuortes, M G F, 1961 Sept p 228, 1966 May Furdyna, Jacek, 1965 Apr p 78 Funa Frank de, 1975 Apr p 48 Furlong, Clement E., 1976 Apr p 44 Furman, F S, 1952 Feb p 56 Furnas, Chifford, 1956 Sept p 118 Furry, Wendell, 1969 Dec p 112 Furshpan, Edwin J., 1970 May p 80, 84, July p 60, 1978 May p 146, 147, June p 112. Furtado, Celso, 1963 Sept p 154 Furtch, J J, 1962 Feb p 76 Furth F R., 1955 Dec p 54 Furth, Harold P., 1958 Mar p 76 Furth, J. cob 1956 Nov p 114, 1957 Feb p 60 1962 Apr p 77, Oct p 66, 1964 May p 94. 1974 Nov p 61 Fute, Kjell, 1967 Feb p 67, 68, 1974 Feb

P 84, 1977 Aug p 115

Fyfe, W S, 1977 Mar p 104 Fynn, Henry, 1960 Apr p 157, 158, 165

G A Roe Insurance Services, 1977 Mar p 117 G D Searle Company, 1949 July p 44 Gabor, Dennis, 1965 June p 24, 33, 34, 1966 Jan p 48, 1968 Feb p 40, 1971 Sept. p 184, Dec p 38, 1976 Oct p 80, 81, 86, 87, 93, 95 Gabrielson, Ira N, 1949 Dec p 54 Gabura, Andrew, 1951 May p 66 Gaddi, Taddeo, 1954 Nov p 62 Gaddini, Eugenio, 1972 July p 76 Gaddını, Renata, 1972 July p 76 Gaddum, J H, 1957 Dec p 55 Gadel, J N, 1957 Dec p 60 Gadolin, J., 1950 Apr p 47, 1951 Nov p 30 Gaede, W, 1950 May p 22 Gaffey, Michael, 1975 Jan p 28, 31 Gaffron, Hans, 1948 Aug p 31, 34, 1953 Nov p 83 Gafurio, Franchino, 1967 Dec p 96, 97 Gagarın, Yuri A , 1961 May p 74 Gage, Thomas, 1959 Mar p 110, 1960 Oct Gaghardi, D D, 1949 Dec p 31 Gahn, Gottlieb, 1965 June p 65 Gaidukov, Yv P, 1963 July p 120 Gaillard, D D, 1959 Aug p 80, 81 Gaillard, Jean Marc, 1962 Aug p 53, 1963 Mar p 68 Gaillard, Pieter, 1961 Apr p 59 Gaines, Helen F, 1977 Apr p 69 Gaines, R. S., 1977 Sept p 226 Gaither, H Rowan Jr., 1954 Sept p 70 Gajdusek, D Carleton, 1967 Jan p 112, 113 Gajdusek D Carleton, 1974 Feb p 36 Gajdusek, D Carleton, 1976 Dec p 50 Gakkel, Y , 1961 May p 101 Gal, Andrew E, 1973 Aug p 92 Galambos, Robert, 1950 Aug p 52, 1959 Aug p 95, 1961 Oct p 138, 1969 Jan p 75, 1973 Oct p 99 Galanter, Eugene H, 1971 Mar p 58 Galasso, F S, 1967 Feb p 90 Galbraith, Alan S, 1960 Oct p 136, 137 Galbraith, John K., 1978 Feb p 76 Galbraithe, John K., 1963 Sept p 60 Galbreth, Christine, 1977 May p 115 Gale, Arthur J V, 1950 Jan p 46, 47 Gale, Ernest F, 1954 Oct p 49, 1955 July p 54, 1956 Mar p 57 Gale, Henry G, 1952 June p 50, 1963 July p 45, 1976 Jan p 62 Gale, N H, 1977 Mar p 98 Galef, Bennett G, 1977 May p 113, 114 Galen, 1948 May p 25, 26, 29, 30, 1949 Nov p 49, 1952 June p 57, 59, 1953 Feb p 80, 1957 Mar p 105, 107, 108, 110, 112, 114, 1960 Mar p 119, Sept p 178, 1964 May p 110, 112, 1965 July p 52, 1966 Nov p 131 1968 Dec p 105, 1972 Aug. p 84, 1977 May p 96 Galenson, Marjone 1974 Sept p 141 Galilei, Vincenzio, 1949 Aug. p 46, 1967 Dec p 97, 1975 June p. 101 Galileo Galilei, 1948 May p 25, Oct. p 16, Nov p 28 52, 1949 Apr p 47, July p 21, Aug. p 40-47, Dec p 57, 1950 May p 20, 48, 50 51, Sept p 55, Oct p 44, 1951 Sept p 46, Dec p 66, 1952 June p 48, 57, 1954 Sept p 60, 1955 Mar p 36, July p 69, Aug. p 62, 63, Sept p 165, 1956 Sept p 79, 79, 228, 1957 Feb p 100, 102, Dec p 37, 1958

Apr p 56, 57, Aug. p 34, Sept p 60, 63, 1959 Oct. p 160, 162, 163, 168, 170, 1960 Sept p 178, 182, 184, 1961 Feb p 119, Mar p 94, Dec p 84, 1962 Nov p 49, 1963 Aug p 29, 1964 Jan p 100, Mar p 83, May p 108, July p 35, 1965 Mar p 104, Aug p 70, 1966 Apr p 54, Oct p 88, 1967 Feb p 95, May p 134, Dec p 97, Aug p 97, 98, 1968 Jan. p 100, Feb p 75, June p 53, Sept p 82, 1969 June p 95, 1970 May p 118, July p 77, Aug p 19, 94, 98, Oct p 29, 30, 81, 1973 Apr p 86, 87, 89, 94, May p 84-92, Dec p 101, 1975 Mar p 102-110, 49, Apr p 106, June p 49, 98, 100-103, Sept p 119, 146, 25, 49, Nov p 97, Dec p 69, 1976 Apr p 104-110, 112, May p 108, 111, June p 100, 1977 Jan p 84, May p 80, 82, 83, June p 121, 122, 126, Nov p 151, 1978 Feb p 126, 131 Galindo, Joroe, 1959 May p 109 Galındo, Jose F, 1964 July p 95 Galitzin, Prince, 1955 Sept p 56 Gall, Franz J, 1948 Oct p 28, 30, 1958 Aug Gall, Joseph G, 1961 Sept p 104, 105, 126, 1973 Aug p 29 Gallagher, Patrick X, 1962 Feb p 108 Gallagher, Thomas, 1976 Feb p 55 Gallatin, Albert, 1976 July p 118, 124 Galle, Johann, 1956 Jan p 59, 62, 1966 Sept p 164, 1975 Sept p 131 Galle, Philipp, 1978 Mar p 137 Gallet, Roger M, 1964 July p 35, 1968 Feb p 79 Gallienus, Emperor, 1974 Dec p 125 Gallik, D, 1969 Oct. p 22 Gallop, Paul M., 1963 Apr p 107, 114 Gallup, George, 1948 Dec p 7, 10, 11, 1952 Jan p 62, 1961 Dec p 45 Gallup Poll, 1948 Dec p 11, 7, 10, 1964 July p 20, 21, 1970 June p 17-21, 24 Gally, Joseph A, 1967 Oct p 86, 1970 Aug p 37, 1972 Dec p 41 Galois, Évariste, 1958 Sept p 69 Galois, Evanste, 1964 Sept p 45, 46, 77, 78 Galston, Arthur W, 1967 8 01 p 44 Galt, John K., 1955 July p 85, 1960 July p 65 Galton, Emma, 1954 Jan p 74 Galton, Francis, Sir, 1948 Dec p 46, 1951 Aug p 39, 1954 Jan p 72-76, 1959 May p 62, 63, 65, 1962 Aug p 66, 1964 Apr p 32, Sept p 92, 1968 Jan p 23, Sept p 208, 1969 Dec p 73, 1970 Jan p 45, 46, 1976 Mar p 81 Galton, Peter, 1969 Oct p 50, 1975 Apr p 78 Galtsoff, Paul S, 1961 Sept p 146 Galun, Esra, 1977 June p 119 Galun, Rachel, 1978 June p 140 Galvani, Lucia, 1950 Feb p 41, 42 Galvani, Luigi, 1950 Feb p 40-43, 1952 Nov p 55, 57, 1960 Aug. p 99, Oct p 117, 1965 Jan p 82, 86, 87, 89 Gambetta, Leon, 1952 Jan p 67, 68 Gambit, Evans, 1973 June p 97 Gamble, F R., 1967 July p 42, 1971 Nov p 30-Gamgee, John, 1968 Jan p 120, 121 Gammage, Kenneth, 1970 June p 125 Gammel, J. L., 1960 Mar p. 111 Gamow, George, 1948 July p 21, 24, Dec p 26, 1949 Mar p 54, 1950 Jan p 43, Mar p 11, 13, 1951 Mar p 22, 1952 Mar p 40, Apr p 74, 1954 Mar p 56, July p 30, Oct. p 61, 1955 Oct p 72, 73, 1956 Mar p 42, 93, Sept p 85, 87, 88, 91, 150, 158, 166, 171, 180, Oct p 90, Dec p 52, 1957 Mar p 53, May p 90, 91, 1958 Feb p 59, 1961 Mar p 124, 1962 Oct. p 68, 1963 Mar p 82, 86, 1967 June

p. 36; 1970 June p. 29, 30, 32; 1974 May p. 108; 1976 Mar. p. 65; 1978 May p. 66. Gandhi, Indira Nehru, 1976 Sept. p. 159. Gandhi, Mahatma, 1956 Mar. p. 70; 1963 July p. 95; Sept. p. 189; 1965 Sept. p. 91; Dec. p. 13-16; 1975 Apr. p. 20, 29. Gane, N., 1974 Aug. p. 68, 69. Gangi, Anthony F., 1969 Dec. p. 93. Gann, Thomas, 1977 Mar. p. 117. Ganong, William F., 1965 July p. 58; 1972 Mar. p. 29. Gans, Carl, 1970 June p. 82. Gans, Daniel, 1973 July p. 30. Gans, Herbert, 1965 Sept. p. 199. Gansser, Augusto, 1977 Apr. p. 34. Gantt, Horsley, 1950 Mar. p. 39; 1957 Dec. p. 50. Ganz, Leo, 1977 Jan. p. 61. Garbell, Maurice A., 1973 Apr. p. 60. Garcès, Francisco T., 1958 Feb. p. 97. Garcia, Carlos P., 1963 Feb. p. 45. Garcia-Bellido, Antonio, 1968 Nov. p. 113; 1973 Dec. p. 32. Garcia-Bellido, Merriam, 1973 Dec. p. 32. Gard, Sven, 1951 Jan. p. 21; 1961 May p. 51. Gardberg, Manuel, 1961 Nov. p. 134. Gardell, Bertil, 1975 Mar. p. 18. Gardiner, E. N., 1968 Aug. p. 82. Gardiner, William, 1974 Mar. p. 84, 86. Gardner, Allen, 1972 Oct. p. 92. Gardner, Beatrice, 1969 Jan. p. 50; 1972 Oct. p. 92. Gardner, Elinor, 1969 Dec. p. 36. Gardner, Eugene, 1948 June p. 35; 1951 Jan. p. 27; Feb. p. 20; 1956 May p. 42. Gardner, Frank F., 1962 Nov. p. 72; 1965 June p. 52; July p. 29; 1974 Apr. p. 72. Gardner, Leroy, 1958 Aug. p. 31. Gardner, Lytt I., 1973 Aug. p. 42. Gardner, Martin, 1971 Mar. p. 104. Gardner, R. A., 1969 Jan. p. 50. Gardner, R. L., 1970 Dec. p. 53, 54. Gardner, Sherwin, 1973 Sept. p. 166. Gardner, Trevor, 1958 July p. 47. Garen, Alan, 1965 Aug. p. 43. Garey, Walter F., 1963 Dec. p. 96. Garfield, J. W., 1967 June p. 25. Garfield, James A., 1963 Mar. p. 121, 122, 129, 130; 1968 Jan. p. 121. Garfield, Sidney R., 1963 Aug. p. 27; 1970 Apr. p. 15; 1972 Sept. p. 148; 1973 Apr. p. 17. Garfinkel, Lawrence, 1962 July p. 46; 1965 Dec. p. 40; 1966 Aug. p. 42; 1968 Apr. p. 44. Garito, Anthony F., 1973 May p. 43. Garland, L. Henry, 1968 Aug. p. 92. Garmany, J. D., 1975 May p. 18. Garmire, Elsa, 1968 Sept. p. 131, 132. Garmire, Gordon P., 1962 May p. 54; 1969 Nov. p. 58; 1975 Dec. p. 45. Garn, Stanley M., 1953 Aug. p. 81; 1966 Aug. Garn, W. B., 1965 July p. 64, 65, 68. Garner, John B., 1964 Sept. p. 84. Garner, W. W., 1952 May p. 50, 51; 1960 Dec. p. 56. Garnett, E. I., 1971 Oct. p. 15. Garnett, R. W. Jr., 1949 Aug. p. 24. Garnham, P. C. C., 1962 May p. 88. Garodz, Leo J., 1974 Mar. p. 76. Garrard, Leonard E., 1977 June p. 98. Garrels, Robert M., 1970 Nov. p. 110. Garrett, C. G. B., 1963 July p. 34; 1964 Apr. p. 45. Garrett, Helen, 1949 Dec. p. 54. Garrett, Henry B., 1975 July p. 81. Garrett, John W., 1962 Aug. p. 60. Garrett, Merrill F., 1970 Dec. p. 30.

Garrett, William, 1974 May p. 65. Garrison, Lloyd K., 1954 July p. 43. Garrod, Alfred, Sir, 1958 June p. 76. Garrod, Archibald, Sir, 1948 Sept. p. 34; 1956 Dec. p. 127, 136; 1961 Sept. p. 77; 1969 July p. 45; 1972 June p. 28. Garrod, Dorthy, 1957 Nov. p. 59, 60. Garrod, L. F., 1949 Aug. p. 34. Garson, Greer, 1948 Sept. p. 50. Garstang, John, 1954 Apr. p. 77, 78, 82. Garten, Siegfried, 1950 Aug. p. 39. Gartlein, Carl W., 1955 Sept. p. 143; 1965 Dec. p. 62. Gartler, Stanley M., 1977 Feb. p. 82. Garvey, Gerald T., 1978 June p. 64. Garvey, Justine S., 1964 Feb. p. 62. Garwin, E., 1966 Nov. p. 111. Garwin, Richard L., 1957 Mar. p. 63; 1961 Mar. p. 80; July p. 50, 54; 1965 Oct. p. 40; 1968 Mar. p. 22; 1969 Apr. p. 15; Aug. p. 18, 24; 1972 Apr. p. 91; June p. 27; July p. 48; 1976 Gary-Bobo, C. M., 1971 Feb. p. 91. Gascoigne, S. C. B., 1964 Jan. p. 39, 40. Gasic, Gabriel J., 1969 Feb. p. 104. Gaskell, Elizabeth, 1975 Jan. p. 91, 92. Gaskell, T. F., 1959 Apr. p. 41. Gasquet, Francis, 1964 Feb. p. 121. Gassendi, Pierre, 1967 Aug p. 98. Gasser, Herbert S., 1949 Dec. p. 14; 1950 Feb. p. 42; 1962 Apr. p. 66; 1967 Nov. p. 27. Gassiot, John P., 1974 Mar. p. 93. Gassner, Gustav, 1952 May p. 50. Gassner, Saul, 1954 Mar. p. 74. Gast, Paul W., 1969 Sept. p. 88; 1970 Aug. p. 19. Gastaut, Henri, 1959 Aug. p. 95; 1972 Feb. Gates, David M., 1964 Oct. p. 70; 1971 Sept. p. 89. Gates, Marshall, 1966 Nov. p. 131. Gates, R. Ruggles, 1951 Apr. p. 55. Gates, W. H., 1957 Nov. p. 112. Gatos, Harry C., 1965 Jan. p. 106. Gatti, Angelo, 1976 Jan. p. 115. Gatti, Raymond C., 1963 Apr. p. 70. Gattoni, Canon, 1965 Jan. p. 82. Gatz, Donald F., 1967 Mar. p. 26. Gaucher, Philippe C.E., 1973 Aug. p. 89-92, 94-Gaudin, A. M., 1955 Oct. p. 31; 1968 Jan. p. 32. Gauer, Otto H., 1974 Nov. p. 96. Gauger, Joleroy, 1969 Dec. p. 92. Gaugler, Richard S., 1968 May p. 38. Gauguin, Paul, 1956 Aug. p. 59; 1972 Sept. p. 96. Gaulli, Giovanni B., 1977 June p. 128. Gault, Donald E., 1960 Oct. p. 135; 1961 Aug. p. 54; 1964 Feb. p. 50; 1975 Sept. p. 63, 66; 1977 Feb. p. 35, 36; 1978 Mar. p. 84. Gauri, K. Lal, 1978 June p. 126. Gauss, Karl F., 1948 June p. 54; 1950 Jan. p. 37; Apr. p. 15, 16; June p. 21; 1951 July p. 54; 1952 Nov. p. 76, 79; 1953 Feb. p. 79; 1954 Nov. p. 80, 82-84, 86; 1955 Sept. p. 158; Oct. p. 38; 1956 Mar. p. 106; 1958 Feb. p. 29; Mar. p. 100; Sept. p. 66, 69; Dec. p. 108; 1964 Sept. p. 66, 67, 206; 1965 Apr. p. 108; 1967 Dec. p. 115, 116; 1969 Nov. p. 87; 1971 Mar. p. 51, 52, 60; 1973 Nov. p. 87; 1976 Aug. p. 74, 96-99; 1977 May p. 119, 121, 122, 126; July p. 123-131; 1978 Feb. p. 131. Gaut, Norman E., 1970 July p. 72. Gautheret, Roger J., 1950 Mar. p. 49, 50. Gautier, Hubert, 1954 Nov. p. 63. Gautier, Marthe, 1961 Nov. p. 72. Gautier, Théophile, 1956 Jan. p. 34; 1969 Dec. p. 19; 1977 Oct. p. 132.

Gaviola, Enrique, 1973 June p. 47. Gay, Helen, 1960 Jan. p. 126. Gaydon, A. G., 1953 May p. 30. Gaydukov, Y. P., 1971 Apr. p. 84. Gaylord, William H. Jr., 1953 Dec. p. 39, 40. Gay-Lussac, Joseph L., 1950 Feb. p. 41; 1951 Dec. p. 68; 1954 June p. 80; 1964 Jan. p. 88; Aug. p. 46. Gazin, L., 1964 July p. 54. Gazis, Denos C., 1963 Dec. p. 35. Gazzaniga, Michael S., 1964 Jan. p. 46, 51. G.D.R. Astrophysical Observatory, 1964 Nov. Geacentov, Nicholas E., 1969 May p. 56. Geake, J. E., 1964 Mar. p. 56; 1965 May p. 31. Geballe, T. H., 1962 June p. 63, 66; 1970 May p. 57; 1971 Nov. p. 22. Gebbie, H. A., 1965 Apr. p. 58; 1968 Sept. p. 80. Gebr. Böhler A. G., 1963 Dec. p. 76, 79. GEC-Elliott Automation, 1970 Oct. p. 105. Geddes, J. S., 1968 July p. 26. Geddes, Patrick, 1965 Sept. p. 64 - 71. Gedeon, Ethel, 1949 June p. 52-54. Gedeon, Mary, 1949 June p. 52-55. Gedeon, Veronica, 1949 June p. 52, 53, 55. Geer, Charles de, 1978 Apr. p. 141. Geer, Jack C., 1966 Aug. p. 53. Geer, James, 1972 June p. 112. Geertz, Clifford, 1971 Sept. p. 121. Geesey, G. G., 1978 Jan. p. 86. Gehenio, P. M., 1956 June p. 106. Gehr, Herbert, 1948 Sept. p. 36. Gehrels, Tom, 1965 May p. 29; 1975 Jan. p. 27; Sept. p. 76, 146. Gehring, G. P., 1965 Mar. p. 95. Gehring, Walter, 1968 Nov. p. 120. Geiduschek, P., 1966 Dec. p. 38. Geiger, Esther, 1976 July p. 112. Geiger, H. Jack, 1960 Sept. p. 98; 1963 Aug. Geiger, Hans, 1950 July p. 40; 1956 Nov. p. 93, 96, 104; 1959 Sept. p. 76; 1962 Aug. p. 37, 40; 1971 June p. 61; 1972 Oct. p. 100. Geiger, Robert E., 1978 Mar. p. 44. Geilmann, Wilhelm, 1963 Nov. p. 125. Geis, Irving, 1961 Dec. p. 98; 1966 Nov. p. 81; 1972 Apr. p. 58. Geiss, Johannes, 1974 May p. 114, 115. Geissler, Heinrich, 1950 Oct. p. 31; 1965 May p. 58; 1971 May p. 86; 1974 Mar. p. 92, 93, Geitel, Hans F., 1952 Mar. p. 56; 1953 Apr. p. 33; 1966 Aug. p. 89; 1969 Mar. p. 106, 107. Gelb, Adhémar, 1963 Jan. p. 109. Gelfand, Israel, 1975 Jan. p. 71. Gell, Philip, 1976 May p. 35. Gell, Philipp, 1973 July p. 55. Geller, Myer, 1964 Apr. p. 49. Geller, Seymour, 1962 June p. 63. Gellert, Martin, 1968 Feb. p. 52; Oct. p. 75. Gellhorn, Walter, 1952 June p. 36. Gell-Mann, Murray, 1959 Apr. p. 68; 1962 Jan. p. 53; May p. 74; Nov. p. 70; 1963 Jan. p. 39, 42; Mar. p. 64, 67; Apr. p. 82; Oct. p. 36; Dec. p. 130; 1964 Jan. p. 54; Feb. p. 80, 83, 89; Apr. p. 60; June p. 54; July p. 44; Sept. p. 128, 130; Oct. p. 36, 39; 1965 Feb. p. 51; Mar. p. 52; 1966 Feb. p. 48; 1967 Nov. p. 59; Dec. p. 90; 1969 Mar. p. 48; Dec. p. 48; 1971 June p. 73; July p. 100; 1973 Aug. p. 34; Oct. p. 113; 1974 Feb. p. 72; July p. 55; 1975 Jan. p. 49; Feb. p. 62; June p. 51, 60, 62; Oct. p. 40, 41; 1976 Jan. p. 53; Nov. p. 48-50; 1977 Oct. p. 56; 1978 Feb. p. 143. Gemeroy, Douglas, 1951 July p. 62. General American Transportation Corporation, 1953 May p. 56.

General Aniline and Film Corporation, 1949 Jan. p. 16, 17, 20, 21. General Atomics Laboratory, 1957 Dec. p. 84. General Conference on Weights and Measures, 1970 July p. 19, 25. General Dynamics Corporation, 1965 May p. 44; 1966 Nov. p. 66; Dec. p. 27, 31, 65; 1972 Jan. p. 47; 1974 Jan. p. 23; 1977 Feb. p. 21; Apr. p. 23, 24. General Electric Company, 1948 Oct. p. 16, 46; Nov. p. 24; 1949 July p. 36, 39, 41, 42; 1952 June p. 21, 38; 1953 Feb. p. 76; June p. 43, 46; Oct. p. 38; Nov. p. 67-71; Dec. p. 48; 1954 July p. 44; 1955 Nov. p. 42, 44-46; Dec. p. 54; 1956 Mar. p. 57; 1957 Mar. p. 66; May p. 62; Oct. p. 43, 87; Dec. p. 84; 1958 May p. 58; 1959 June p. 127; Dec. p. 90; 1960 Mar. p. 76, 78; June p. 156; 1963 July p. 35, 38, 40; 1964 May p. 39-43, 46, 47; Sept. p. 204; 1965 Mar. p. 99; May p. 40; June p. 91; Oct. p. 32, 35; 1966 June p. 97; Sept. p. 136, 193, 200; 1968 Feb. p. 26, 28, 29; 1969 May p. 89; 1970 Oct. p. 102, 107; Dec. p. 93, 96; 1971 Jan. p. 82; July p. 32; Sept. p. 153, 157; 1972 Sept. p. 131; Oct. p. 27; 1973 July p. 36; 1974 Feb. p. 19; 1975 Nov. p. 102; 1976 Jan. p. 56; Dec. p. 37, 40, 114. General Electric Research Laboratory, 1950 Apr. p. 53; June p. 27; 1954 July p. 37, 38; 1957 Sept. p. 133; 1960 Jan. p. 74; July p. 69, 72; 1962 Mar. p. 88, 90; July p. 86; Oct. p. 83; Nov. p. 102; Dec. p. 72; 1963 June p. 67; 1964 Dec. p. 31; 1965 Jan. p. 38, 40, 42, 43; Mar. p. 38; June p. 106; 1966 July p. 102, 107; 1969 Aug. p. 38; 1970 Mar. p. 108, 112. General Electronics Research Lab., 1959 Sept. General Mills Incorporated, 1957 Sept. p. 108; 1959 May p. 54, 56. General Motors Corporation, 1956 June p. 66; 1963 Dec. p. 35, 37; 1964 Dec. p. 113; 1966 Sept. p. 188; Dec. p. 65; 1970 Mar. p. 80, 82; 1971 Jan. p. 72; 1972 Aug. p. 16, 19, 20; 1975 Jan. p. 37; Apr. p. 53; July p. 59, 60, 64; Aug. p. 48; 1976 Nov. p. 101; 1977 Jan. p. 77, 79; Aug. p. 103, 106. General Research Corporation, 1970 July p. 95. General Telephone and Electronics Corporation, 1963 July p. 37; 1966 Oct. p. 48; 1977 Feb. p. 68. Generali, F., 1961 Apr. p. 56. Genetics Society of America, 1948 May p. 33. Genet-Varcin, E., 1977 May p. 31. Geneva Disarmament Committee, 1974 Oct. p. 27. Genghis Kahn, 1950 Apr. p. 21. Genghis Khan, 1948 June p. 17; 1963 Aug. p. 54-62, 64, 66, 68; 1969 Aug. p. 79; 1974 Sept. p. 95; 1976 June p. 55. Gennes, P. G. de, 1977 Dec. p. 140. Genouillac, Henri de, 1978 June p. 54. Gentili, M., 1953 May p. 68. Gentner, W., 1960 Nov. p. 173; 1962 Feb. p. 81. Gentzen, Gerhard, 1956 June p. 84. Genzel, L., 1957 May p. 46. Geoffroy, Etienne F., 1967 Sept. p. 74. Geoffry of Monmouth, 1953 June p. 26. Geoghegan, M. J., 1953 Oct. p. 33 Geological Society of America, 1948 Oct. p. 25; Dec. p. 26; 1949 Apr. p. 40; 1956 Dec. p. 85; 1960 Oct. p. 104. Geophysics Corporation of America, 1963 Mar. p. 74; 1964 Mar. p. 70. George, Abbot, 1970 Aug. p. 95. George, Henry, 1965 Sept. p. 151. George I, King, 1969 July p. 42, 46; 1976 Jan.

p. 114,

George II, King, 1969 July p. 42. George III, King, 1953 Mar. p. 88; 1954 July p. 30; Dec. p. 72; 1960 Oct. p. 158, 162; 1965 May p. 34; 1969 July p. 38, 39, 41-46. George IV, King, 1968 Dec. p. 105; 1969 July p. 42, 46. George, John L., 1965 Sept. p. 82; 1970 Apr. p. 77. George, Lloyd, 1970 July p. 23. George, Saint, 1958 Sept. p. 107. George V, King, 1965 Aug. p. 90, 94. George, Walter, 1976 June p. 114. George, Walter F., 1951 Sept. p. 49. George Washington University, 1971 Feb. p. 45. Georgetown University, 1948 Dec. p. 27. Georgetown University School of Medicine, 1964 Feb. p. 47. Georgi, Howard, 1974 July p. 57, 58; 1975 Oct. p. 49. Georgii, Hans, 1971 Jan. p. 42. Georgopoulos, Costa P., 1970 Jan. p. 91. Gerald, Park S., 1974 July p. 40. Geralton, James, 1949 Dec. p. 52, 53. Gerard, Ralph W., 1949 June p. 27; 1952 Nov. p. 57; 1958 Dec. p. 85; 1967 June p. 116; 1970 Feb. p. 13. Gerard, Robert M., 1968 Sept. p. 200. Gerard, Robert O., 1970 Dec. p. 20. Gerasimov, Mikhail, 1965 Feb. p. 54. Gerathewohl, Siegfried J., 1969 Aug. p. 57. Gerber, D. A., 1966 May p. 50. Gerber, Heinrich, 1954 Nov. p. 67. Gerbier, Norbert, 1961 Mar. p. 134. Gerbner, George, 1972 Sept. p. 39. Gerbrandt, Lauren, 1969 Jan. p. 80. Gerdien, H., 1957 Aug. p. 81. Geren-Uzman, Betty B., 1961 Sept. p. 210, 211; 1962 Apr. p. 66-68. Gerhardt, Charles F., 1963 Nov. p. 96, 97, 99. Gerhardt, Paul R., 1950 July p. 29. Gerhardt, Philipp, 1960 June p. 136. Gerhardt, U., 1956 Nov. p. 127. Gerhart, John C., 1965 Apr. p. 42, 45. Gerlach, John L., 1976 July p. 49, 58. Gerlach, Walther, 1965 May p. 59, 61, 72. Gerlache, Adrien de, 1962 Sept. p. 64. Gerland, H., 1963 Nov. p. 96, 98. Gerling, E. K., 1960 Nov. p. 176. Germain, George, Lord, 1960 Oct. p. 162, 163. German, see: G.D.R. or G.F.R.. German Baptist Brethren, 1953 Aug. p. 78. German, James L., 1963 July p. 55, 58; 1964 May p. 88; 1968 Apr. p. 50. Germann, John C., 1949 May p. 31, 33, 36. Germann, John C., 1949 Mar. p. 42. Germer, Lester H., 1948 May p. 50-53; 1953 Aug. p. 44; Sept. p. 54; 1958 Jan. p. 52, 55; 1965 May p. 63; 1971 Apr. p. 26. Germuth, Frederick G. Jr., 1973 Jan. p. 26. Gero, D. R., 1957 Aug. p. 53. Geronimo, 1956 May p. 78. Gerontology Research Center, 1970 Jan. p. 39. Gerry, Edward T., 1970 July p. 52. Gerry, Elbridge, 1965 Nov. p. 21. Gershon, Elliot, 1969 Apr. p. 50. Gershwin, George, 1956 Feb. p. 77. Gerson, Samuel, 1978 Feb. p. 46. Gersonides, 1969 Nov. p. 89, 92. Gerstein, George L., 1962 June p. 150, 152. Gerstenkorn, Horst, 1972 Apr. p. 50, 51. Gerstner, Franz, 1959 Aug. p. 75. Gertsch, Willis J., 1976 Mar. p. 105. Gervais, Paul, 1956 June p. 98. Geschwind, Irving I., 1955 Aug. p. 50; 1956 Nov. p. 70; 1961 July p. 102. Geschwind, Norman, 1964 Jan. p. 47; 1972 Feb. p. 29; 1973 Mar. p. 70.

Gesell, Arnold, 1948 Sept. p. 18; 1952 Nov. p. 34; 1955 Feb. p. 74, 75; 1970 Jan. p. 50; Aug. p. 102. Gesell, Gerhard A., 1970 Jan. p. 50. Gesell, Robert, 1963 Dec. p. 94. Geselle, P., 1955 Nov. p. 45. Gessa, Gian L., 1970 Feb. p. 44. Gest, Howard, 1953 Mar. p. 39, 40; May p. 39; 1960 Nov. p. 116. Gesteland, R. C., 1964 Feb. p. 49. Geta, 1961 June p. 130. Getchell, Thomas V., 1978 Feb. p. 96. Getmantsev, G. G., 1956 Jan. p. 46; 1969 Feb. p. 55. Gettrup, Erik, 1968 May p. 86. Getty Oil Company, 1976 Dec. p. 36. Getty, Robert, 1966 June p. 100. Geusic, J. E., 1968 Sept. p. 132. Gey, George O., 1949 Sept. p. 20; 1968 Mar. p. 32. Geyskes, D. C., 1967 July p. 95. G.F.R. Academy of Sciences, 1957 Sept. p. 87. G.F.R. Electron Synchrotron (DESY), 1975 June p. 62; Oct. p. 49; 1977 June p. 37, 41; Oct. p. 67; 1978 Mar. p. 72. G.F.R. Electron Synchrotron Laboratory, 1978 Mar. p. 56. G.F.R. Forestry Research Institute, 1963 Mar. p. 134. G.F.R. Government, 1963 Apr. p. 59. G.F.R. Institute for Research into Heredity, 1960 Aug. p. 139. G.F.R. Institute for Virus Research, 1971 Mar. p. 26. G.F.R. Institute of Human Genetics, 1962 Aug. p. 29, 33. G.F.R. Ministry of Education, 1957 Sept. p. 87. G.F.R. National Research Council, 1957 Sept. p. 87. G.F.R. Pergamon Museum, 1978 June p. 59. G.F.R. Research Institute for Soaring, 1961 Mar. p. 129. G.F.R. Urban and Planning Institute, 1974 Aug. p. 61. Gheorghian, Musat, 1978 May p. 60. Ghiorso, Albert, 1950 Mar. p. 28; Apr. p. 47; May p. 27; 1955 July p. 52; 1956 Dec. p. 67; 1958 July p. 49; 1961 June p. 84; 1963 Apr. p. 70, 72; 1967 Oct. p. 56; 1969 Apr. p. 61, 63; June p. 56; 1970 June p. 48. Ghosh, A. K., 1967 Oct. p. 50; 1976 Nov. p. 100. Ghraib, Mohd, 1973 Sept. p. 47. Ghuysen, Jean M., 1969 May p. 97. Giacconi, Riccardo, 1963 Aug. p. 34; Dec. p. 67; 1964 June p. 36; 1972 July p. 32; 1973 Oct. p. 73; Nov. p. 48; 1975 Mar. p. 24; 1977 Oct. p. 50. Giacomello, Giordano, 1965 Sept. p. 82. Giacomoni, Dario, 1964 May p. 55. Giaever, Ivar, 1966 May p. 35; Nov. p. 71; 1973 Dec. p. 50. Giamati, Charles C., 1962 Aug. p. 98. Giannini, Gabriel, 1961 Mar. p. 61. Gianola, Umberto F., 1969 Oct. p. 47; 1971 June p. 84. Giard, Jean-Baptiste, 1974 Dec. p. 129, 130. Giarman, Nicholas J., 1965 July p. 54. Giauque, William F., 1949 June p. 33, 38; Dec. p. 11, 14, 14; 1950 Sept. p. 34; 1951 Nov. p. 30; 1966 Dec. p. 121, 122; 1967 Nov. p. 25, 27. Giban, Jacques, 1956 Aug. p. 54; 1959 Nov. Gibbard, Allan F., 1976 June p. 25. Gibbon, Edward, 1955 May p. 32; 1958 June p. 74; Oct. p. 120. Gibbon, John H. Jr., 1954 Aug. p. 25; 1960 Feb.

p. 81. Gibbons, Barbara, 1974 Oct. p. 48. Gibbons, Ian R., 1961 Sept. p. 196; 1966 Oct. p. 82; 1974 Oct. p. 48, 51. Gibbons, Ronald J., 1978 Jan. p. 89-91. Gibbs, Carol, 1976 July p. 56. Gibbs, Clarence J. Jr., 1967 Jan. p. 112; 1974 Feb. p. 36. Gibbs, J. Willard, 1948 Aug. p. 36; 1949 July p. 12; Dec. p. 15-17, 35; 1950 Sept. p. 34; 1951 Sept. p. 43; 1954 Sept. p. 61; 1955 Nov. p. 42, 43; 1957 Nov. p. 47; 1960 June p. 116; 1964 Sept. p. 95; 1965 May p. 38; 1967 Nov. p. 108; 1968 Dec. p. 49; 1970 Nov. p. 110, 111; 1971 Sept. p. 188; 1972 Dec. p. 60; 1974 May p. 68; 1975 Dec. p. 60, 63; 1976 Sept. p. Gibbs, O. S., 1971 May p. 20. Gibbs, W. C., 1976 June p. 114. Gibor, Aharon, 1964 Nov. p. 58; 1966 Nov. p. 118, 123; 1970 Sept. p. 64, 111. Gibson, Alan R., 1976 Nov. p. 90. Gibson, D. M., 1960 Feb. p. 49. Gibson, Eleanor J., 1960 Apr. p. 64; 1961 Mar. p. 139; 1965 Nov. p. 94; 1967 May p. 96. Gibson, Everett K. Jr., 1972 Oct. p. 87. Gibson, H. S., 1948 Sept. p. 12. Gibson, J. E., 1961 May p. 62. Gibson, James J., 1961 May p. 72; 1962 Jan. p. 45-47; May p. 64, 67; 1967 May p. 99; 1968 Sept. p. 205; 1975 June p. 78, 79; 1976 Dec. p. 42. Gibson, John G., 1954 Feb. p. 57. Gibson, John W., 1964 June p. 56. Gibson, Quentin H., 1968 May p. 104. Giddings, J. L. Jr., 1951 Jan. p. 13; 1954 Sept. p. 78; 1968 June p. 27, 31, 32. Giebisch, Gerhard H., 1962 Aug. p. 105, 107, Gielisse, Peter J. M., 1974 Aug. p. 64. Gierasch, Peter J., 1975 Sept. p. 117; 1976 Mar. p. 48, 51; Oct. p. 108. Gierer, Alfred, 1961 Apr. p. 82; 1963 Dec. p. 46, 52. Gierer, Walter, 1976 Jan. p. 75. Giffard, Pierre, 1972 May p. 104, 105. Giffin, Charles E., 1969 Mar. p. 88. Giglia, Gaetano, 1970 Feb. p. 35. Gignoux, Maurice, 1972 Dec. p. 32; 1978 May p. 53. Gilbert, Edgar N., 1975 Apr. p. 38. Gilbert, F. W., 1954 Oct. p. 47. Gilbert, Freeman, 1965 Nov. p. 36. Gilbert, G. K., 1960 May p. 64, 66, 67; 1961 Aug. p. 51, 52; 1965 Oct. p. 26. Gilbert, John, 1959 Aug. p. 53. Gilbert, Lawrence, 1958 Feb. p. 72; 1959 Feb. p. 106; 1967 July p. 15. Gilbert, Nathan, 1953 May p. 33. Gilbert, Verne E., 1964 Mar. p. 42. Gilbert, Walter, 1961 July p. 66; 1963 Dec. p. 45; 1964 July p. 46; 1966 Apr. p. 107; 1967 June p. 52; 1969 Oct. p. 33; 1970 June p. 36, 40; 1974 June p. 49; Aug. p. 90; 1976 Jan. p. 64, 66, 75; 1977 Dec. p. 56. Gilbert, William, 1950 June p. 21; 1955 Sept. p. 152; 1957 Oct. p. 87; 1958 Feb. p. 29; Apr. p. 56; May p. 44; 1965 Apr. p. 66; 1967 Sept. p. 222, 234; 1970 May p. 119; 1971 Aug. p. 65; 1973 apr. p. 87, 92, 94. Gilchrist, Alexander, 1958 Sept. p. 166. Gilchrist, Fred, 1954 Feb. p. 62. Gilchrist, Percy C., 1968 Apr. p. 24. Gilden, Donald H., 1973 Jan. p. 22. Gile, William, 1965 Nov. p. 31. Giles, Joan P., 1966 July p. 33; 1970 Aug. p. 48; 1977 July p. 44.

Giles, Norman H., 1951 Oct. p. 23, 24. Gilford, Hastings, 1967 July p. 103, 104, 108. Gilgamesh, King of Uruk, 1957 Oct. p. 81; 1960 Sept. p. 162, 166; Oct. p. 69. Gilkey, John C., 1977 Nov. p. 133. Gill, David, 1950 Sept. p. 24. Gill, Edmund D., 1966 Mar. p. 91. Gill, J. R., 1954 Oct. p. 36. Gill, Kulbin, 1973 Dec. p. 24. Gille the Russian, 1967 May p. 71. Gilleland, John, 1968 Jan. p. 85. Gilleo, Alten, 1960 June p. 98. Gillespie, D., 1973 Sept. p. 69. Gillespie, E. B., 1951 Aug. p. 56; 1975 Apr. Gillespie, J. M., 1969 Aug. p. 90. Gillett, J. D., 1960 June p. 72; 1968 Apr. p. 116; 1978 June p. 146. Gillette, Peter N., 1975 Apr. p. 49. Gillham, J. K., 1969 July p. 97, 99. Gillie, R. Bruce, 1971 June p. 93. Gillis, Richard A., 1975 Dec. p. 55. Gillman, Joseph, 1954 Dec. p. 47. Gillman, Theodore, 1954 Dec. p. 47. Gillogly, James, 1973 June p. 93. Gillon, Edmund V. Jr., 1974 Sept. p. 41. Gillray, James, 1960 June p. 110; 1969 July p. 44. Gilman, Alfred, 1960 Jan. p. 100. Gilman, John J., 1960 Feb. p. 95; 1961 Oct. p. 111, 112. Gilman, Peter A., 1968 Jan. p. 113; 1975 Apr. p. 114; 1977 May p. 84. Gilman, Ralph, 1965 Nov. p. 30. Gilman, Roger H., 1969 Sept. p. 214. Gilmore, Marion H., 1949 Feb. p. 44. Gilmore, Raymond M., 1955 Jan. p. 64, 66; 1962 Aug. p. 50; 1966 Aug. p. 13. Gilmour, J. S. L., 1966 Dec. p. 107. Gilmour, R. Stewart, 1975 Feb. p. 52, 54. Gilpatric, Roswell L., 1962 Apr. p. 45; 1964 Dec. p. 61; 1968 Jan. p. 44. Gilpín-Brown, John B., 1960 July p. 123, 128; 1971 Jan. p. 71, 72. Gilson, Pierre, 1976 Apr. p. 95. Gilula, N. Bernard, 1978 May p. 147. Gimbrone, Michael A. Jr., 1976 May p. 60, 63, Gimenez, Maximo, 1966 Mar. p. 79. Gingell, David, 1971 Oct. p. 82. Gingerich, Owen, 1976 Aug. p. 91. Ginos, James Z., 1966 Apr. p. 50. Ginsburg, Michael, 1976 July p. 57. Ginzberg, Eli, 1976 Dec. p. 25; 1977 Nov. p. 43, Ginzberg, N. I., 1971 Apr. p. 83. Ginzburg, V. L., 1959 Sept. p. 103; 1962 Mar. p. 49; 1963 Dec. p. 54; 1966 Aug. p. 35; 1967 Mar. p. 117; 1971 Mar. p. 80; July p. 79; Nov. p. 24, 32; 1972 Feb. p. 72. Ginzton, Edward L., 1954 Oct. p. 43; 1962 May Giordmaine, J. A., 1961 May p. 61; 1963 July p. 42; 1964 Aug. p. 40; 1967 May p. 56; 1969 Feb. p. 30; 1973 June p. 51. Giorgi, Francesco, 1967 Dec. p. 97. Giorgio, Lolli, 1963 Nov. p. 102. Giovanelli, R. G., 1951 Dec. p. 20, 21; 1962 Feb. p. 56. Giovanni, Count, 1963 Dec. p. 116. Giovanni, Rosalie de, 1957 Oct. p. 60. Giovanoli, Frederico, 1978 May p. 60. Girard, André, 1968 Sept. p. 72, 81. Girardi, Anthony J., 1978 Feb. p. 120. Girl Scouts of America, 1952 Jan. p. 36. Girling, R. L., 1977 Jan. p. 53. Giromini, P., 1973 Nov. p. 42.

Girvin, J. P., 1974 Mar. p. 45. Gish, O. H., 1953 Apr. p. 36, 37. Gittelman, B., 1966 Nov. p. 111. Gittings, Robert, 1973 June p. 40. Givaudon, Pierre, 1974 Aug. p. 73. Given, James B., 1977 Dec. p. 87. Gjorksten Research Laboratories, 1963 Apr. p. 110. Gladner, Jules A., 1962 Mar. p. 63, 64. Gladstone, S. A., 1949 June p. 26. Gladwin, Thomas, 1953 Nov. p. 60. Glaeser, Robert, 1972 Oct. p. 46. Glaessner, Martin F., 1964 Aug. p. 36. Glage, Gustave, 1974 Mar. p. 101. Glanvill, Joseph, 1963 Aug. p. 81. Glanzer, Murray, 1971 Aug. p. 84, 85. Glascock, R. F., 1957 Oct. p. 128. Glascow School of Art, 1970 Apr. p. 48. Glaser, Daniel, 1963 Nov. p. 43. Glaser, Donald A., 1954 Jan. p. 39; 1955 May. p. 52; 1956 May p. 59; 1957 Jan. p. 85; Apr. p. 46; 1960 Dec. p. 74; 1962 Aug. p. 38, 39; 1967 Oct. p. 40; Nov. p. 28; 1978 Feb. p. 76. Glaser, Peter E., 1971 Sept. p. 158. Glasgow, L. A., 1963 Oct. p. 46. Glashow, Lee, 1977 June p. 129. Glashow, Sheldon L., 1974 July p. 57, 58; 1975 Jan. p. 49; June p. 60; July p. 46; Oct. p. 38, 53; 1976 Jan. p. 53, 54; Aug. p. 44B; Dec. p. 50; 1977 Oct. p. 60. Glass, Bentley, 1957 Sept. p. 114. Glass, Billy P., 1968 Dec. p. 69; 1969 Nov. p. 118. Glass, H. Bentley, 1953 Aug. p. 76; 1960 July p. 81; Nov. p. 90. Glasscock, Keith, 1954 Sept. p. 76. Glasser, Otto, 1959 Sept. p. 165. Glassman, Edward, 1962 Apr. p. 108. Glasstone, Samuel, 1966 Aug. p. 92; 1976 Nov. p. 29, 31. Giauber, Johan R., 1952 Oct. p. 76. Glavitsch, Hans, 1974 Nov. p. 34. Glaxo Laboratories, Ltd., 1971 July p. 27; 1977 Apr. p. 48. Glazer, Nathan, 1965 Sept. p. 71, 146, 155. Glazier, William H., 1973 July p. 23. Glazounov, Alexander, 1948 July p. 37. Gleadow, Andrew J. W., 1976 Dec. p. 118. Gleason, Andrew M., 1953 Feb. p. 34. Glebe, Brian, 1973 Mar. p. 96. Glendenin, L. E., 1950 Apr. p. 43. Glendinning, W. G., 1952 Feb. p. 38. Glenn, John H. Jr., 1962 Apr. p. 74; May p. 74; July p. 76; 1963 Jan. p. 60. Glenn L. Martin Company, 1955 Oct. p. 45; Dec. p. 54. Glenn, W. E., 1960 Feb. p. 70. Glennan, T. Keith, 1950 Oct. p. 24; 1952 Dec. p. 36; 1953 Sept. p. 72; 1955 May. p. 50; 1956 Mar. p. 49. Glenny, W. T., 1968 Apr. p. 76. Gley, Edouard, 1952 May p. 34. Glick, Bruce, 1974 Nov. p. 60. Glicksman, Maurice, 1963 Nov. p. 52, 53. Glickstein, Mitchell, 1976 Nov. p. 90. Glikson, A. Y., 1976 June p. 52. Glimcher, Melvin J., 1961 Apr. p. 62; 1970 Oct. p. 46. Glinka, G., 1972 Sept. p. 80. Glob, Peter, 1953 Oct. p. 85. Globe Industries Incorporated, 1965 Nov. p. 43. Globe Marine, Inc., 1970 Aug. p. 45. Globus, Albert, 1972 Feb. p. 27 Glomset, John A., 1977 Feb. p. 85. Glover, Rolfe E. III, 1971 Nov. p. 32. Gluck, Henry, 1959 Aug. p. 91. Gluck, Louis, 1973 Apr. p. 79, 85.

Gluckman, Max, 1960 Apr p 157 Gluckman, P, 1974 Sept. p 88 Glucksberg, Sam, 1977 Feb p 100 Glueck, Eleanor, 1950 Dec p 28 Glueck, Nelson, 1956 Apr p 40, 42, Sept p 116, 118, 1963 Oct p 102 Glueck, Sheldon, 1950 Dec p 28 Gluecksohn-Schoenheimer, Salome, 1950 June p 18 Gmelin, Johann G, 1969 Aug p 75 Gnagy, Jon, 1951 June p 16 Gnosis, 1966 Dec p 100, 105 Gobbi, B, 1966 Nov p 64 Gobel, Stephen, 1978 Feb p 97 Gockel, Albert, 1949 Mar p 30 Goddard, David R., 1969 Aug p 88 Goddard, Jonathan, 1967 Aug p 97 Goddard, Robert H, 1949 May p 31, 33, 35, 1956 Oct p 68, 1957 Nov p 68, 1960 Sept p 106, 1968 Dec p 95 Goddart, David R., 1953 Aug p 57, 58 Godel, Albert, 1972 Oct p 30, 31 Godel, Kurt, 1950 Sept p 40, 1956 June p 71, 72, 76, 80-84, 86, 1962 Apr p 84, 94, 96, 1964 Jan p 56, Sept p 127, 1967 July p 50, 52, 53, Dec p 106, 111, 112, 115, 116, 1968 May p 95, 1969 June p 76, 1971 Mar p 51, 56, 57, 59, 60, Aug p 93, 98, 99, 1972 June p 83, Dec p 42, 1973 May p 82, Nov p 85, 90, 91, 1975 May p 47, 48, 50, 51, 52, 1977 Oct p III Godell, John, 1972 Oct. p 75 Godette, McClure, 1975 Oct p 54 Godfred, King, 1967 May p 69 Godin, Louis, 1967 Oct p 70 Godlewski, Emil, 1949 Dec p 23 Godley, E. J., 1954 Jan p 80 Godman, Gabriel C, 1969 Feb p 105 Godsey, James H Jr, 1955 Feb p 41 Godson, G Nigel, 1977 Dec p 54, 56 Godwin, A N, 1976 Apr p 79 Goebel, Karl I E. von, 1978 Feb p 108 Goebel, Walther F, 1959 June p 82, 1964 Mar Goedel, Kurt, 1951 May p 36 Goell, Kermit, 1956 July p 43 Goell, Theresa, 1956 July p 42 Goeppert-Mayer, Maria, 1967 Nov p 28 Goeppert-Meyer, Maria, 1975 Dec p 48 Goenng, Hermann, 1955 Dec p 40 Goethe, Johann W von, 1949 Jan p 25, June p 50, 1950 May p 50, 1951 Jan p 51, July p 59, Sept p 45, 1952 Aug p 60, 1958 Mar p 122, 94, June p 74, Sept p 101, 102, 1970 Oct p 78, 1977 Apr p 116 Goetz, Robert H, 1974 Nov p 96 Golman, John W, 1951 June p 51, 1952 July p 42, 1957 June p 74 Gogel, Walter C, 1978 May p 126 Goguen, Jay D, 1975 Sept p 27 Golan, Simcha, 1967 May p 25 Golant, V E., 1967 July p 81 Golay, Marcel J E., 1961 Oct p 59, 65, 1965 Aug. p 23, 1967 Dec p 67, 1970 Nov p 76 Gold, Andrew V, 1963 July p 118, 120 Gold Bernard, 1960 Aug p 60 Gold, Edwin M., 1969 Jan p 23 Gold, Thomas, 1954 Mar p 58, 1955 June p 52, 1956 Sept p 157, 1959 May p 70, 1960 May p 64, 67, 69, 1961 Feb p 51, 1963 June P 99, 1964 June p 43, 45, 1966 Mar p 56, Dec p 51, 1967 Mar p 68, 1968 July p 33, Oct p 34, 35, Nov p 84, 1969 Jan p 46, 48. Mar p 46, 1971 Jan p 52, Aug. p 66, 1973 Feb p 100, 1974 May p 108, 1975 Dec p 40 1977 Aug p 57 Geldacte, Reginald J. 1955 Jan p 44, 1961

يمخ د _

Sept p 184, 186, 189, 1962 Feb p 115-117 Gol'dansku, Vitalii I , 1969 Apr p 66, 1971 Oct p 93, 1978 June p 70 Goldbach, Christian, 1951 July p 53, 1956 June p 81 Goldberg, Abraham, 1971 Feb p 18 Goldberg, Barry B, 1978 May p 99 Goldberg, Burton D, 1973 Nov p 61, 65 Goldberg, Edward D, 1960 Dec p 65, 1974 June p 73, 1976 Mar p 39 Goldberg, Irving H, 1974 Aug p 82 Goldberg, Leo, 1959 Nov p 88, 1973 Oct p 72 Goldberg, M D, 1953 Aug p 29 Goldberg, Michael E, 1972 Dec p 77, 80, 81 Goldberg, Norman, 1976 Aug p 72 Goldberg, Rube, 1952 Mar p 70, 1969 June Goldberger, M L, 1962 Nov p 70, 1963 Mar p 107 Goldblat, Jozef, 1972 Dec p 40 Goldblatt, Harry, 1959 Mar p 54 Goldblatt, Maurice W, 1971 Nov p 84 Golden, Sidney, 1977 July p 95, 96 Goldenberg, H Mark, 1962 Aug p 55, 1967 Mar p 48, 1974 Nov p 31 Goldenberg, Leo, 1954 Dec p 58 Goldhaber, Alfred S, 1976 May p 96, 1977 Mar p 64 Goldhaber, Gerson, 1956 June p 41, 1975 June p 54, 56, 1977 Oct p 69 Goldhaber, Maurice, 1958 Apr p 37, 1963 Oct p 45, Dec p 131, 1969 July p 29 Goldhamer, Herbert, 1954 Mar p 41 Goldhammer, Herbert, 1973 Sept p 123 Goldmacher, Joel E, 1970 Apr p 101 Goldman, Robert, 1951 Feb p 30 Goldmark, Peter C, 1971 Oct. p 27 Goldmeier, Erich, 1974 Jan p 80 Goldreich, Peter, 1968 July p 33, 35, 1971 Jan p 56, Feb p 31, 1973 Feb p 102, Dec p 43, 1975 Sept p 38, 61, 154 Goldrich, Samuel S., 1977 Mar p 100 Goldsborough, John P, 1973 Feb p 89 Goldschmidt, Bertrand, 1955 Oct p 36 Goldschmidt, Richard B, 1951 Oct p 24, 25 Goldschmidt, Walter, 1973 July p 74 Goldsmith, D, 1966 Dec p 45, 47 Goldsmith, H H, 1948 Oct p 19, 25 Goldsmith, Hyman, 1952 June p 36 Goldsmith, Myron, 1974 Feb p 102 Goldsmith, Timothy H, 1976 July p 108 Goldstein, A Jay, 1973 Nov p 79 Goldstein, Alvin G, 1971 Dec p 68 Goldstein, Avram, 1977 Mar p 45, 55 Goldstein, Bernard, 1971 July p 77 Goldstein, Bernard R., 1965 May p 57, 1976 June p 102, 106 Goldstein, C, 1971 Oct p 94 Goldstein, David, 1960 Dec p 155 Goldstein, Eugen, 1969 Mar p 106, 107, 1971 May p 86, 1974 Mar p 93 Goldstein, Hyman, 1950 July p 29 Goldstein, Irwin J., 1975 Jan p 85, 1977 June p 111 Goldstein, J I 1965 Oct p 29 Goldstein Joseph 1, 1973 July p 65 Goldstein, Kurt, 1948 Oct p 37, 1949 Aug p 38 1962 Aug p 74, 1963 Apr p 121 Goldstein, Leon, 1971 Mar p 27 Goldstein, Lester, 1956 Mar p 57 Goldstein, Phillip J., 1974 Mar p 89 Goldstein, Richard M., 1965 Dec. p. 40, 1968 July p 29 34, 1970 Mar p 62, 1973 Oct p 48, 1974 Mar p 45, 1975 Sept p 71, 1977 Jan p 90 95 Goldstein, Samuel J., 1965 July p. 31, 1968 Dec p 38

Goldstein, Stuart, 1974 Oct p 46 Goldstone, Jeffrey, 1978 Feb p 136 Goldwater, Barry, 1965 Apr p 53, 54, 1968 Dec p 88 Goldwater, Leonard G, 1971 May p 15 Goldwyn, Robert M, 1966 Apr p 49 Goldzieher, J. W., 1956 Sept. p. 116 Golfand, Y A, 1978 Feb p 136 Golgi, Camillio, 1978 Feb p 95 Golgi, Camillo, 1948 Oct p 30, 1961 Sept p 57, 1967 Nov p 26, 1969 Feb p 100, 101, 1971 July p 48, 1975 Jan. p 56, Oct. p 31 Goliath of Gath, 1973 Oct p 35 Gollan, Frank, 1968 Aug p 74 Golovin, Igor N, 1966 Oct p 44 Golub, Stephen, 1968 Nov p 64 Gomberg, H J, 1954 Nov p 50 Gomberg, Moses, 1953 Dec p 74-76, 1957 Mar p 91, 94 Gombrich, E H, 1974 July p 98 Gomer, Robert, 1964 Jan p 108 Gomori, George, 1963 May p 69 Gonor, Jefferson, 1972 July p 100 Gonsalves, L M, 1973 Apr p 47, 60 Gonzales, R. C, 1965 Jan p 98 Gonzales, Thomas A, 1951 Oct p 40 Gonzalez-Serratos, Hugo, 1970 Apr p 92 Good, I J, 1961 May p 153, 154 Good, Myron L, 1963 Jan p 40 Good, Robert A, 1956 Feb p 48, Dec p 130, 1957 July p 96, 100, 102, 1966 Feb p 90, 1973 Jan p 31, 1974 Nov p 60, 61, 69, 1977 May p 72 Good, William E, 1948 Sept p 18 Goodall, Jane, 1964 July p 48 Goodchild, D J, 1970 Sept p 144 Goodell, Charles E., 1976 June p 24, 25 Goodenough, Daniel A., 1974 Mar p 32, 1978 May p 142 Goodenough, Donald R., 1959 Feb p 51, 1960 Nov p 87 Goodenough, Ursula W, 1970 Nov p 22, 23, Goodeve, C F, 1950 Aug p 40, 1967 June Goodfriend-Ostergaard Associates, 1966 Dec Goodgal, S H, 1951 May p 24 Gooding, Terence J, 1972 Oct p 103, 108 Goodkind, John M., 1969 Dec p 34, 35 Goodman, Howard M, 1963 Mar p 76, Dec p 52, 1964 May p 55, 1975 July p 25, 31 Goodman, Joseph R., 1959 Jan p 42 Goodman, Leslie, 1971 Aug p 77 Goodman, Nelson, 1973 May p 76 Goodman, R. N., 1955 June p 83 Goodmanson, Lloyd T, 1964 June p 34 Goodrich, Cecilie A, 1967 Oct p 56, 1976 Aug. p 24 Goodrich, Edwin S., 1955 Dec p 39 Goodrich, L C, 1963 Aug. p 54 Goodrich Gulf Chemical Company, 1955 Dec p 50 Goodricke John, 1968 June p 34 Goodspeed, T Harper, 1951 Apr p 55, 56 Goodstein, David L., 1973 May p 39 Goodwin, Angier L, 1955 Feb p 56 Goodwin, Gorton M, 1976 Nov p 106 Goodwin, R. H., 1957 Apr p 127 Goody, Richard M 1964 Mar p 70, 1976 Mar p 48, Oct p 108 Goodyear Aerospace Corporation, 1971 June p 51, Sept p 61, 1977 Oct p 86, 92, 93 Goodyear, Charles, 1956 Nov p 75, 1957 Sept. p 88 Goodzeit Carl L., 1955 Nov p 56, 1975 July p >9

Goosman, D. R., 1978 June p. 72. Gordienko, P. A., 1961 May p. 88; 1962 Sept. Gordon, A. H., 1951 Mar. p. 39; 1960 Mar. p. 133; 1961 Apr. p. 57. Gordon, Benjamin, 1975 Jan. p. 75. Gordon, Cecil, 1951 Mar. p. 15. Gordon, Charles, 1954 Feb. p. 62. Gordon, Charles G., 1972 Nov. p. 54. Gordon, Charlotte, 1976 Dec. p. 94. Gordon, Cyrus H., 1957 Oct. p. 58; 1962 May p. 84. Gordon, Donald A., 1948 Dec. p. 10, 11. Gordon, Edmund I., 1957 Oct. p. 83. Gordon, H. T., 1967 June p. 110. Gordon, H. W., 1975 Oct. p. 103. Gordon, Harry, 1955 Dec. p. 43, 44. Gordon, J. E., 1960 July p. 66. Gordon, J. W., 1958 Feb. p. 89. Gordon, James P., 1957 Feb. p. 78; 1959 June p. 118; 1961 May p. 61; June p. 55; 1964 Dec. p. 60; 1965 May p. 72. Gordon, Joyce K., 1977 Mar. p. 80, 81. Gordon, Kermit, 1971 Mar. p. 44. Gordon, Louis, 1949 Sept. p. 28. Gordon, Malcolm S., 1967 Mar. p. 52. Gordon, Richard, 1978 June p. 106. Gordon, Samuel, 1953 Dec. p. 52. Gordon, Tavis, 1971 May p. 44. Gordon, W. E., 1957 Jan. p. 48. Gordon, W. S., 1967 Jan. p. 111, 112. Gordon, Ya. Ye., 1969 Feb. p. 55, 56. Gordon-Smith, A. C., 1955 Aug. p. 65. Gordy, Walter, 1957 May p. 46; 1970 Aug. p. 75. Gore, Albert, 1954 Nov. p. 31; 1969 Aug. p. 20. Goreau, Thomas F., 1966 Oct. p. 26; 1975 Mar. p. 86; Apr. p. 99. Gorenstein, Marc V., 1977 Nov. p. 72; 1978 May p. 64. Gorenstein, Paul, 1971 July p. 74; 1974 Oct. p. 42. Gorer, Geoffrey, 1961 Dec. p. 45. Gorer, Peter, 1977 May p. 66, 67; Oct. p. 96. Gorgo, wife of Leonidas, 1966 July p. 38. Gorin, Everett, 1952 Oct. p. 40. Gorini, Luigi, 1964 July p. 46; 1966 Apr. p. 102; 1969 Oct. p. 33, 34. Gorlen, Keith, 1973 June p. 93; 1977 June p. 56. Gorman, Chester F., 1972 Apr. p. 34, 36, 37, 39; 1976 Sept. p. 70. Gorman, Donald, 1969 Dec. p. 69. Gorman, John G., 1966 Mar. p. 58; 1968 Nov. p. 50. Goro, Fritz W., 1962 Dec. p. 78; 1973 Apr. p. 65; Dec. p. 25; 1975 Mar. p. 77, 86; 1976 May p. 59; July p. 82; Sept. p. 51; Oct. p. 80, 83; 1977 Feb. p. 86; May p. 96; Sept. p. 70. Gorshkov, G. S., 1962 July p. 59. Gorski, Jack, 1976 Feb. p. 36. Gorski, Roger A., 1976 July p. 51, 55. Gorter, Cornelius J., 1965 May p. 67; 1966 July p. 74; 1969 Dec. p. 34. Görter, E. W., 1967 Feb. p. 48. Goryachev, A. V., 1977 Apr. p. 35. Goslin, David A., 1974 Aug. p. 57. Gosling, J. T., 1977 Mar. p. 36. Gosnell, Harold F., 1950 Nov. p. 11. Goss, N. P., 1959 Apr. p. 128, 130, 132; 1967 Sept. p. 231, 232 Goss, Richard J., 1971 Apr. p. 77. Gosset, William S., 1957 May p. 89 Gossette, Robert, 1968 June p. 66, 67. Gossick, Lee V., 1977 July p. 56. Gosz, James R., 1978 Mar. p. 93. Gotlieb, Avrum, 1975 Apr. p. 56. Goto, Eiichi, 1963 Dec. p. 125, 129.

Goto, Kakuji, 1966 Nov. p. 135. Goto, Toshio, 1967 Aug. p. 67. Gott, Yu V., 1966 Dec. p. 31. Gottesman, S. T., 1973 June p. 34. Gottesman, Susan, 1976 Dec. p. 109. Gottleib, C. A., 1978 June p. 102. Gottlieb, Carl A., 1974 May p. 110. Gottlieb, Gilbert, 1972 Aug. p. 28. Gottlieb, Melvin, 1959 Mar. p. 39. Gottlieb, Paul D., 1970 Aug. p. 42. Gottmann, Jean, 1965 Sept. p. 64, 134; 1966 Oct. p. 46. Gottschalk, Alfred, 1974 May p. 78. Gotwald, William H. Jr., 1972 Nov. p. 71. Götze, W., 1962 Aug. p. 111, 116. Goudsmit, Samuel A., 1950 Sept. p. 30; 1954 June p. 30; 1963 July p. 111; 1965 May p. 64, 66; 1966 July p. 68; 1968 Jan. p. 73; 1969 Dec. p. 112,120; 1973 Feb. p. 46. Goudy, Frederic W., 1969 May p. 65. Gough, Harrison G., 1958 Sept. p. 151. Gough, R. A., 1970 Dec. p. 41; 1978 June p. 67. Gough, William C., 1971 Feb. p. 50; June p. 21; 1972 July p. 65; 1974 Oct. p. 80. Gould, Alice B., 1949 July p. 51. Gould, Gordon, 1973 Feb. p. 89. Gould, James L., 1970 Oct. p. 60. Gould, Jay, 1959 Nov. p. 102. Gould, John, 1953 Apr. p. 67; 1956 June p. 49, Gould, Laurence M., 1956 Aug. p. 49. Gould, Robert J., 1964 June p. 42, 43. Gould, S. E., 1954 Nov. p. 50. Goulding, Frederick, 1969 July p. 52; 1972 Nov. Goulian, Mehran, 1968 Feb. p. 51. Goulianos, Konstantin, 1962 Aug. p. 53; 1963 Mar. p. 68. Gouras, Peter, 1973 Dec. p. 28. Gow, Anthony J., 1962 Sept. p. 132, 134, 137. Gowan, Clyde L. Jr., 1969 July p. 29. Gowans, James L., 1964 July p. 74, 86; 1969 June p. 43; 1972 June p. 31; 1973 July p. 56; 1974 Nov. p. 65. Gowers, William, Sir, 1970 Mar. p. 78. Goy, Michael F., 1976 Apr. p. 46. Goyer, Robert A., 1971 Feb. p. 16, 19. Gozzini, A., 1962 Aug. p. 41. Grabar, Pierre, 1960 Mar. p. 130, 136. Grabau, A. W., 1972 June p. 57; Nov. p. 61, 62. Gracchus, Sempronius, 1963 Dec. p. 115. Grace, J. T. Jr., 1972 Jan. p. 29. Grad, Harold, 1955 Nov. p. 54; 1967 Nov. p. 110; 1971 Feb. p. 52. Graduate Research Center of the Southwest, 1964 Apr. p. 71; 1970 Sept. p. 118. Grady, George F., 1971 Aug. p. 20. Graebe, C., 1955 July p. 60; 1957 Feb. p. 114. Graebner, F., 1950 Sept. p. 87. Graetzer, Hans, 1954 June p. 30. Gräfenberg, Ernst, 1964 Jan. p. 55. Graff, Robert A., 1972 Oct. p. 29. Graff, Samuel, 1949 May p. 28; 1969 Oct. p. 50. Graffham, A. Allen, 1963 May p. 117. Graham, A. J., 1960 Oct. p. 58. Graham, C. D. Jr., 1960 July p. 72. Graham, C. F., 1968 Dec. p. 30. Graham, Clarence H., 1956 Dec. p. 115; 1961 Sept. p. 231. Graham, Edward H., 1949 Dec. p. 53-55. Graham, Evarts A., 1950 July p. 29. Graham, George, 1964 Mar. p. 100, 102, 104. Graham, John, 1967 Feb. p. 48. Graham, John B., 1971 Apr. p. 106. Graham, John S., 1958 Aug. p. 50; 1959 Apr. p. 64; 1960 Apr. p. 88; 1961 May p. 74. Graham, L. C., 1977 Oct. p. 84.

Graham, Ronald L., 1978 Mar. p. 124, 130. Graham-Smith, G. S., 1965 July p. 97. Graig, John, Sir, 1957 July p. 96. Grainger, John F., 1965 May p. 31. Grajiano, W., 1963 Jan. p. 40. Gram, Hans C. J., 1949 Aug. p. 28; 1964 Mar. p. 36; 1969 Jan. p. 111. Gramet, Philippe, 1956 Aug. p. 54; 1959 Nov. p. 120. Gramme, Zénobe T., 1959 Nov. p. 106; 1961 May p. 116. Gran, H. H., 1949 Oct. p. 18. Granboulan, Philippe, 1969 May p. 94. Grange, Harold "Red", 1953 Sept. p. 72. Granick, Ruth, 1961 Mar. p. 86. Granick, S., 1948 Aug. p. 35; 1964 Nov. p. 58. Granick, Sam, 1956 Jan. p. 81. Granit, Ragnar A., 1956 Mar. p. 52; 1961 July p. 121; Sept. p. 224; 1964 Mar. p. 113; Dec. p. 48; 1967 Dec. p. 48. Granner, Daryl, 1973 June p. 87. Grannis, P., 1973 Nov. p. 42. Granoff, Allan, 1973 Oct. p. 28. Grant, Edward, 1973 May p. 85, 92. Grant, Harold L., 1973 Feb. p. 72. Grant, K., 1954 Feb. p. 78. Grant, Lester, 1950 Feb. p. 26. Grant, N. H., 1966 Dec. p. 65. Grant, Patrick T., 1972 July p. 99. Grant, T. J., 1969 Dec. p. 54. Grant, W. A., 1972 Oct. p. 89. Grant, Warren H., 1969 Sept. p. 90. Grantham, Flora H., 1976 May p. 73. Graphic Arts Research Foundation, 1949 Nov. p. 29. Grashof, Franz, 1974 July p. 26. Grassé, Pierre-Paul, 1956 Nov. p. 127, 130; 1961 July p. 138. Grassi, Giovanni B., 1952 June p. 23; 1962 May p. 88. Grassle, J. Frederick, 1977 June p. 50. Grassle, Otto, 1949 Aug. p. 34. Grassman, W., 1963 Apr. p. 107, 114. Grassmann, Hermann G., 1978 Feb. p. 137. Gratia, André, 1975 Dec. p. 33. Gravell, Maneth, 1973 Oct. p. 27. Gravelle, Clifton R., 1977 July p. 45. Graves, Alvin C., 1957 Aug. p. 57. Graves, Jennifer, 1974 Jan. p. 61. Graves, Robert, 1960 Mar. p. 129. Gravesande, Laurens S. van s', 1960 Oct. p. 117. Gray, Asa, 1951 Aug. p. 39; 1956 Feb. p. 67, 94; 1959 Feb. p. 81; Aug. p. 98; 1977 May p. 101. Gray, Bradford H., 1976 Feb. p. 28, 29. Gray, E. G., 1961 Feb. p. 114. Gray, Gary, 1972 Oct. p. 71. Gray, George W., 1950 Feb. p. 26; 1953 Apr. p. 33; June p. 56, 60; 1954 July p. 32; 1955 Jan. p. 58; Mar. p. 69; May p. 42; 1956 Aug. p. 87; Sept. p. 80; 1957 Nov. p. 79; 1958 Sept. p. 86; Nov. p. 90; 1960 Mar. p. 131; 1970 Feb. p. 53. Gray, Gordon, 1954 June p. 44; July p. 42. Gray Herbarium, see: Harvard University Gray Herbarium. Gray, James, Sir, 1960 May p. 148; 1961 Feb. p. 110; Sept. p. 146, 190; 1965 Aug. p. 80; 1970 June p. 85; 1976 Jan. p. 98. Gray, John, 1960 Aug. p. 100. Gray, M. F., 1977 Feb. p. 83. Gray, Stephen, 1967 Sept. p. 195; 1976 May p. 100. Gray, Thomas, 1958 June p. 74; 1962 Sept. p. 91, 92. Graybill, Stuart, 1972 Apr. p. 29. Grayson, H. J., 1952 June p. 46. Grayston, J. Thomas, 1964 Jan. p. 84, 86.

Great Canadian Oil Sands, Ltd , 1966 Feb p 21, 28 Great League of Peace, 1971 Feb p 32, 39, 42 Greathouse, Glenn A, 1957 Aug p 60, Sept Greek Archaeological Service, 1954 Dec p 74, 1958 May p 111, 1965 Apr p 83, 1976 June Greek Department of Antiquities, 1970 July p 52 Greek National Archeological Museum, 1974 Apr p 50 Greek Numismatic Museum, 1977 Oct p 125 Greeley, Andrew M, 1971 Dec p 13, 1978 June Greeley, Ronald, 1975 Sept p 116 Green, Anne, 1976 June p 105 Green, Arda A, 1950 June p 32, 1974 Feb p 84 Green, C K., 1954 Aug p 62 Green, David E, 1955 May p 54, 1958 July p 59, Aug p 80, 1960 Feb p 47, 1963 June p 77, 1965 June p 80, 1968 Feb p 31, 35, 1974 Mar p 28 Green, George, 1952 July p 35, 1954 June p 78, 1973 July p 24 Green, Harry W, 1978 Apr p 128 Green, Harry W II, 1975 Mar p 56 Green, Howard, 1961 Dec p 72, 1967 Apr p 30, 1968 Jan p 46, 1969 Apr p 30, Nov p 128, 1971 Apr p 112, 1973 June p 87, Nov p 61, 1974 July p 36, 38, 1978 Apr p 69,76 Green, John, 1974 Apr p 105 Green, Kenneth, 1963 Mar p 69 Green, Leon J, 1967 Aug p 40 Green, Margaret, 1971 Apr p 111 Green, Margaret W, 1978 June p 50 Green, Michael, 1967 Oct p 81, 84 Green, N M, 1973 July p 56, 57 Green, Paul E Jr , 1954 Dec p 44, 1959 May p 76, 1968 July p 31 Green, Paul M, 1949 July p 33 Green, R. G, 1956 Apr p 110 Green, Robert, 1974 Dec p 102, 103 Green, Robert H, 1966 July p 32, 33 Green, Roger L, 1972 July p 39 Greenacre, James A, 1964 Feb p 67, 1965 May p 31, 33, 35 Greenberg, Arana, 1974 Apr p 51 Greenberg, Bernard G, 1963 Aug p 20 Greenberg, D S, 1967 Nov p 28 Greenberg, G Robert, 1961 June p 146 Greenberg, Harold, 1963 Dec p 40 Greenberg, Harry B, 1976 Nov p 70, 1977 Apr p 50 Greenberg, Herbert, 1956 Oct p 67 Greenberg, Jerry, 1962 June p 129 Greenberg, Joseph H, 1977 Apr p 110 Greenberg, Leon A, 1957 Jan p 67, 1963 Nov p 102 Greenberg, Oscar W, 1975 June p 60, Oct P 43, 1976 Nov p 51 Greenberg, Samuel, 1952 Mar p 44 Greenberger, Martin, 1966 Sept p 193 Greenblatt, Melvin, 1976 May p 60 Greenblatt, Richard D, 1976 July p 66 Greene, Charles H., 1963 Nov p 120 Greene, Godfrey T., 1974 Feb p 95 Greene, Jerry, 1949 July p 26 Greene, Mark H , 1973 Oct p 50, 1975 Feb Greenewalt, Crawford H, 1958 Feb p 46 Greenfield, B S, 1971 Oct p 102 Greenfield, Harry S., 1976 Dec p 28 Greensield, Robert E., 1955 Nov p 50 Greengard, Olga, 1965 June p 43

*..

Greengard, Paul, 1977 Aug p 108 Greenglass, David, 1966 Oct p 43 Greenhill, A G, 1975 July p 99 Greenhow, J Stanley, 1962 Dec p 51 Green-Kelly, R, 1970 Nov p 55, 56 Greenland Geological Survey, 1977 Mar p 97, 98, 100 Greenler, Robert G, 1978 Apr p 144 Greenough, William B III, 1971 Aug p 15, 18, 20, 1972 Aug p 104 Greenough, William T, 1972 Feb p 27 Greenspan, Carol, 1964 May p 56 Greenspan, Martin, 1972 Dec p 68 Greenstein, Jesse L, 1949 Nov p 31, 1951 June p 31, 1956 June p 60, 1959 July p 49, 78, 1961 June p 113, 1962 Apr p 58, 62, 63, 1963 Jan p 73, Apr p 63, May p 77, 1964 June p 45, Aug p 38, 1965 June p 46, 47, July p 32, 1966 June p 30, Dec p 40, 1967 Aug p 35, Oct p 110, 1969 Apr p 51, 1970 Dec p 22, 1971 May p 56, 1974 Feb p 56, 1976 Dec p 92, 1977 Dec p 86 Greenstein, L M, 1971 Jan p 65 Greenwald, Isidor, 1961 Apr p 56 Greenwood, J R., 1964 Dec p 81 Greer, Scott, 1965 Sept p 200 Greer, Sheldon, 1957 Oct p 60 Gregg, Alan, 1954 Apr p 31, 1973 Sept p 77 Gregg, Donald, 1955 Dec p 68 Gregg, James H, 1963 Aug p 90 Gregg, Michael B, 1973 May p 44 Gregg, N McAlister, 1966 June p 55, July p 30, 31 Gregor, Harry P, 1955 Oct p 48 Gregor, William, 1949 Apr p 48 Gregory, Addie, 1948 Aug p 7 Gregory, Derek P, 1974 Oct p 78 Gregory III, Pope, 1951 Oct p 65 Gregory IV, Pope, 1951 Oct p 65 Gregory, J W, 1950 Apr p 49 Gregory, King, 1977 Nov p 140 Gregory, P. C., 1973 Jan p 45 Gregory, Peter B, 1976 Nov p 70 Gregory, Richard L, 1950 Jan p 46, 1959 Jan p 69, 1970 Dec p 35, 1971 Oct p 30, 1972 Nov p 86 Gregory the Great, Pope, 1951 Oct p 64, 1972 Sept p 95 Gregory, William K., 1951 Dec p 54, 1956 June p 98, 1964 July p 50, 54, 60-62, 1972 Jan p 94, 98, 1976 May p 56 Greguss, Paul, 1968 Oct p 62 Greks, I A, 1957 Jan p 48 Grelling, Kurt, 1962 Apr p 85, 90, 91 Grendel, F, 1976 May p 38 Grenell, Robert G, 1955 Oct p 86 Grenfell, Wilfred, 1948 Nov p 11 Gresser, Ion, 1969 Oct p 50 Greulach, Victor A, 1954 May p 61, 1959 Feb Greulich, William W, 1958 Aug p 52 Greve, Jean-Pierre de, 1975 Mar p 30, 31, 33, 1977 Oct p 46 Grevesse, Nicola, 1974 May p 112 Greville, Fulke, 1973 Apr p 87, 88 Greville, Guy D, 1964 Jan p 73 Grew, Nehemiah, 1954 Dec p 95, 1976 May p 103 Grey, Clifford E., 1960 Nov p 71 Grey, David, 1959 May p 89 Grey, Howard M., 1964 Mar p 42 Grey, Perry, 1975 Nov p 38 Grey, T., 1975 Nov p 38 Greytak, Thomas, 1968 Sept. p 124 Gribakin, F. G., 1976 July p. 112. Gribor, V N, 1969 July p 36, 37 Gneder, Terence, 1975 Oct p 54

Griego, Richard J , 1969 Mar p 71, 72 Griffin, B I, 1967 Mar p 29 Griffin, C J, 1961 Oct p 110, 112 Griffin, Donald R., 1954 Mar p 79, 1955 May p 99, 1958 July p 41, Aug p 43, 1959 Oct p 102, 1962 Apr p 78, 1965 Apr p 101 Griffin, J. L., 1955 Mar p. 76, 1959 July p. 130, 1962 Feb p 117, 120 Griffin, James B, 1952 Mar p 23 Griffin, John J, 1976 Mar p 39 Griffin, S L, 1959 Nov p 102 Griffin, Walter, 1954 Apr p 56 Griffith, Alan A, 1960 Feb p 95, 1969 Nov p 105, 1973 July p 40 Griffith, Fred, 1953 Feb p 50, 1956 Nov p. 52, 1969 Jan p 38 Griffith, J S, 1959 Dec p 58 Griffith, Jack D, 1975 July p 48, 1977 July p 24, 25, 27, Dec p 56 Griffith, O H, 1974 Mar p 31, 32 Griffith Observatory, 1964 Aug p 14 Griffiths, Jack, 1970 June p 38 Griffiths, Martha W, 1971 Apr p 20 Gnggs, David, 1950 Dec p 56, 1955 Nov p 45, 1960 Sept p 106, 1963 Apr p 92 Grignard, Victor, 1963 Jan p 92, 1967 Nov p 26, 1973 Dec p 50 Grigor'yev, A A, 1976 Oct p 111 Grijalva, 1975 Oct p 80-82 Grillner, Sten, 1976 Dec p 82, 84 Grillo, Hermes C, 1969 June p 49 Grilly, E R, 1949 June p 37, 1958 June p 35 Grimaldi, Francesco, 1966 June p 35 Grimm, Jakob, 1949 Oct p 54 Grimmer, Gernot, 1976 Mar p 37 Grimminger, G, 1949 Jan p 38, 39 Grimstone, A V, 1961 Sept p 196, 1965 Dec p 48, 51, 1971 Aug p 50, 53 Grindlay, Jonathan E, 1976 Aug p 44B, 1977 Oct p 53 Grindle, Paul, 1959 Mar p 70 Gringauz, K. I, 1963 May p 89 Grinker, Roy R., 1957 Jan p 80, 1960 Mar p 152, 1963 Mar p 102 Grinnel, A D, 1958 July p 44 Grinspoon, Lester, 1963 Feb p 72, 1974 July p 47 Grinstein, Moisses, 1949 Feb p 36 Gris, Eusebe, 1959 Jan p 98 Grisaru, Marcus T, 1978 Feb p 142 Grischkowsky, Daniel, 1968 Apr p 39 Griswold, Rettig A, 1950 Jan p 14 Grobstein, Clifford, 1959 May p 142, 144, 1961 Sept p 144, 1969 Mar p 41, 1977 July p 22 Grodzins, Lee, 1965 Apr p 78 Grodzins, Morton, 1957 Oct p 33, 1961 July p 45, 1965 Aug. p 12 Groen, J J, 1973 Oct. p 96 Groff, R. P., 1969 May p Gromme, C S., 1967 Feb p 51, 52 Gromyko, Andrei A., 1949 Mar p. 19, 1968 Aug p 42 Grondahl, Lars O, 1958 Nov p 32 Gros, François, 1961 July p 66, Sept p 79 Grose, Vernon L, 1972 Aug. p 43 Gross, Alfred, 1957 July p 125 Gross, David, 1974 July p 58, 1976 Nov p 56 Gross, Erhard, 1970 Aug. p 37 Gross, Grant, 1974 Aug. p 24 Gross, Jerome, 1954 Aug. p 50, 1957 Sept p 204, 208, 210, 1960 Mar p 122, 1969 June p 49 Gross, Larry P. 1972 Sept p 160 Gross, Ludwik, 1960 Nov p 64, 65, 67, 1964 May p 91, 1972 Jan p 26, 1977 May p 64 Gross, Paul M., 1950 Dec. p 26, 1956 Feb p 50, Aug. p 49

Gross, Robert E, 1950 Jan p 15, 17, 1960 Fcb p 79, 1961 Apr p 91 Grossberg, Allan L, 1976 Mar p 116 Grosse, Aristid V, 1950 Nov p 26, 1958 Dec p 54 Grosseteste, Robert, 1978 Jan p 69 Grossman, Lawrence, 1962 Dec p 137, 140, 1975 Jan p 24 Grossman, Sebastian P, 1964 June p 65, 1970 Apr p 98 Grossweiner, Leonard I, 1960 May p 135 Groth, Edward J, 1977 Nov p 76 Grotrain, Walter, 1949 Dec p 20, 1958 Aug Grotrian, Walter, 1960 July p 61 Grotsch, G, 1951 Feb p 58 Groupe, Vincent, 1972 Jan p 26 Grove, J F, 1957 Apr p 129 Grove Laboratories Inc , 1950 Aug p 31 Grove, William, Sir, 1959 Oct p 72, 1971 May p 84, 86 Grover, George, 1959 Jan p 66 Grover, George M, 1968 May p 38 Groves, Leshe R, 1949 Nov p 26, 1950 Jan p 27, 1953 June p 44, 1959 Feb p 68, 1969 June p 23 Grow, J A, 1975 Nov p 97 Grubb, Rune, 1970 Aug p 41 Grubb, T C, 1948 Oct p 22 Grubb, Thomas, 1963 June p 78 Grubbs, Donald K, 1963 May p 76 Grubhofer, Nikolaus, 1971 Mar p 26 Grueter, F, 1950 Oct p 20 Grumbach, Melvin M, 1963 July p 60 Grumman Aircraft Engineering Corporation, 1963 Aug p 28 Grumman Ecosystems, 1977 Oct p 92 Grunberg-Manago, Marianne, 1957 Sept p 188, 1962 Feb p 43, 1963 Mar p 84, 86, 1968 Oct p 67 Grundfest, Harry, 1958 Oct p 43, Dec p 87, 1960 Oct p 115, 1963 Mar p 50, 1966 Mar p 78, 1977 Feb p 115 Gruneisen, E., 1967 Sept p 184, 186, 187 Grunglass, David, 1951 May p 33 Gruntfest, L J, 1949 Dec p 31 Grusser, O J, 1974 Mar p 36 Gryaznov, M P, 1965 May p 102, 1969 Aug Grzimek, Bernhard, 1971 July p 86 Guadet, Julien, 1972 Nov p 98, 99 Gualtierotti, T, 1968 Aug p 74 Guarneri, Guiseppe, 1962 Nov p 79, 87, 90 Guarneros, Gabriel, 1976 Dec p 109 Gudden, Bernhard von, 1972 Aug p 87 Gudea, Governor of Lagash, 1957 Oct p 83 Guderjahn, C A, 1973 Oct p 22, 23 Gudernatsch, Frederick G, 1963 Nov p 110 Gudernatsch, Friedrick G, 1966 May p 76 Gudov, V F, 1962 Oct p 48 Guedel, Arthur, 1957 Jan p 73 Gueguen, Y, 1978 Apr p 128 Guenther, P L, 1955 Nov p 45 Guericke, Otto von, 1950 May p 20, 21, 1953 Aug p 65, 67, 1964 Jan p 100, 103, 1965 Jan p 82, 1967 Aug p 99, 100, 1970 Aug p 98, 1977 Dec p 126 Guerin, 1949 Oct p 36, 1964 June p 104 Guerlac, Henry, 1976 May p 106 Guest, John R, 1966 July p 50, 1967 May p 91, Guggenheim Foundation, 1952 Mar p 36, Nov p 21, 1967 Nov p 28 Guggenheim, John S, 1966 Sept p 102 Guidotti, Guido, 1972 Feb p 32 Guidry, Marion A, 1966 Aug p 53 Guilbault, George G, 1971 Mar p 31

Guilford, J P, 1958 Sept p 159 Guillaumat, Pierre, 1955 Oct p 30 Guillaume, C E, 1967 Nov p 26 Guillemin, Roger, 1974 Sept p 53, 1977 Feb p 55, Mar p 55, Dec p 82 Guillery, R W, 1973 Aug p 43 Guilton, H, 1975 Nov p 102 Guinand, L , 1961 Jan p 100 Guinness, Edward A Jr, 1978 Mar p 84 Guinot, Bernard, 1971 Dec p 85, 1975 Sept p 72, 73 Guinterius, see Andernach, Guenther von Guiteau, Charles J., 1963 Mar p. 129 Guizot, François, 1964 Sept p 131 Guldner, Fritz H, 1978 Feb p 98 Gulf Energy and Environmental Systems Inc, 1971 Feb p 52, 1972 July p 74 Gulf General Atomic, Inc., 1976 Dec p 37 Gulf Oil Corporation, 1948 Sept p 14, 1955 Sept p 165, 1956 Nov p 82, 1961 Feb p 98. 1968 Feb p 31, 1974 Jan p 23, 1976 Dec p 37 Gull, Steven, 1975 Dec p 41, 43, 1976 June p 105, 106 Gulland, John A, 1966 Aug p 19 Gulland, John M, 1966 Nov p 132 Gullberg, J E., 1954 Feb p 79 Gulledge, Hugh C, 1949 Dec p 31 Gullino, Pietro M, 1976 May p 71, 73 Gullstrand, Allvar, 1967 Nov p 26 Gulyaev, Yun, 1972 Oct p 62 Gum, Colin S, 1959 Dec p 96, 1971 Dec p 21, 23, 25, 1972 Aug p 59 Gumilla, Jose, 1967 July p 97 Gummert, F, 1953 Oct p 33 Gumpert, Martin, 1953 Feb p 86 Gundermann, Ellen, 1965 July p 31, 1968 Dec Gundersen, Gunnar, 1952 Mar p 38 Gunet-Caplin, François, 1951 May p 33 Gunn, J B, 1966 Aug p 22-30, 1972 Feb p 13 Gunn, James E, 1966 Feb p 51, Dec p 43-45, 1970 Dec p 26, 1971 Jan p 56, May p 69, 1973 Feb p 101, 1974 May p 60, 1975 Dec p 50, 1976 Dec p 92 Gunn, Ross, 1954 Feb p 68 Gunsalus, Irwin C, 1966 Nov p 65 Gunston, Frank H, 1978 Jan p 46, 47 Gunter, Edmund, 1976 Apr p 104 Gunter, Gordon, 1954 May p 68, 1969 Mar p 26 Gunther, E R, 1954 Mar p 67, 1971 Jan p 71 Gunther, Kurt, 1965 Dec p 51 Gupta, P B, 1964 June p 56 Gurd, Frank, 1954 Feb p 61 Gurdon, John B, 1961 Sept p 132, 1971 Dec p 40, 1975 Feb p 47, 1976 Aug p 61, 63, 66, Guri, Charles D, 1967 Jan p 58 Gurin, Samuel, 1960 Feb p 49 Gurney, Ronald, 1952 Nov p 32, 33 Gurr, Henry S, 1965 Oct p 38 Gurs, K, 1968 June p 23 Gursey, Feza, 1965 Mar p 53 Gursky, Herbert, 1963 Aug p 34, Dec p 67, 1964 June p 36, 42, 1967 Dec p 37, 1975 Mar p 24, Dec p 39, 1976 Aug p 44B, Oct p 78, 1977 Oct p 53 Gurtler, Charles, 1968 May p 77, 78 Gurwitsch, Alexander, 1949 June p 45 Guseynov, O Kh, 1974 Dec p 36 Gusin, M de, 1957 May p 41 Guskova, A K, 1955 Oct p 31 Gustafson, C Don, 1977 Nov p 62, 67 Gustafson, John K., 1949 July p 33 Gustafson, Tryggve, 1962 Feb p 115

Gustafsson, Ake, 1951 Oct p 24, 1955 Oct

p 38, 1971 Jan p 89, Nov p 96 Gustafsson, Bengt E, 1958 Oct p 58 Gutenberg, Beno, 1949 Feb p 42, 1955 Sept p 57-60, 1962 June p 58, July p 52-54, 57, 1969 Nov p 105, 1973 Mar p 25, 26, 1977 Apr p 35, Dec p 71 Gutenberg, Johann, 1949 Dec p 56, 1960 Sept p 178, 1969 May p 62, 63 Guthridge, Sue, 1949 Dec p 56 Guthrie, Christine, 1968 Sept p 86, 1969 Oct p 35 Guthrie, Francis, 1977 Oct p 108 Guthrie, Frederick, 1977 Oct p 108, 111 Guthrie, Robert, 1964 July p 46 Gutman, Alexander, 1958 June p 80 Gutte, Bernd, 1969 Mar p 47 Guttmacher, Manfred S, 1969 July p 43 Guttman, Charles, 1977 July p 95 Guttman, Ludwig, Sir, 1968 Apr p 50 Guttman, Newman, 1975 Apr p 37 Guttmann, S, 1961 July p 102 Gutzmann, Hermann, 1974 Mar p 84 Guy, Thomas, 1973 Sept p 129, 136 Guyer, Robert, 1970 May p 101 Guzewitsch, A. M., 1957 Mar p. 53 Guzmán, Eugenie de Montijo de, Empress, 1974 Oct p 84 Guzman, Fuentes y, 1959 Mar p 110 Gwadz, Robert W, 1978 June p 146 Gwathmey, Allan T, 1954 July p 37 Gwei-Dien, Lu, 1964 Feb p 68 Gwinner, Eberhard, 1971 Apr p 76, 77 Gyorgy, Paul, 1961 June p 139, 140 Gyorkey, Ferenc, 1977 July p 50 Gyrisco, George G, 1959 July p 98 Gzovsky, M V, 1961 Feb p 98, 106

H

Haadraade, Harald, 1967 May p 72 Haagensen, Cushman D, 1949 May p 28 Haagen Smit, A J, 1952 May p 19, 1953 Jan p 34, 1955 May p 63, 66, 69, 1961 Oct p 50, 1965 May p 52 Haan, Hendrick de, 1977 Nov p 70 Haas, Gregory M, 1971 Sept p 67 Haas, W J de 1949 June p 38, 1961 July p 125, 1962 June p 60, Dec p 97, 1967 Mar p 117, 1971 Apr p 83 Habel, Karl, 1963 Oct p 46, 1967 Apr p 35, 1977 May p 64 Haber, Fritz, 1949 Dec p 15, 1951 Jan p 42, 1952 Dec p 42, 1954 Aug p 77, 1965 June p 65, 1967 Nov p 26, 1970 Sept p 141, 143. 1974 Oct p 67, 1977 Mar p 68-72 Haber, Ralph N, 1968 Sept p 210, 1969 Apr p 36, 1970 May p 104, 1971 Mar p 99, 1974 Dec p 29 Haberlandt, Gottlieb, 1950 Mar p 49, 1963 Oct p 107, 109, 1968 July p 79 Habgood, J O, 1975 Dec p 80 Habich, Hans, 1957 July p 96 Hablanian, Marsbed 1955 July p 81 Hacienda Vicos 1957 Jan p 38 44 Hacker, V, 1969 Nov p 127 Hackett, William 1949 Jan p 49 Hackman Gene, 1975 July p 48 Hadamard, Jaques, 1958 Dec p 108 Hadassah Medical School in Jerusalem, 1964 Haddad, John G Jr 1975 July p 73 Haddock, Fred T, 1977 Dec p 86 Haddon, R A, 1973 Mar p 33 Haddow, Alexander, 1955 Mar p 62, 1960 Jan p 100, 101, 108, 1968 Apr p 116

Haderlie, Eugene C, 1972 July p 93, 95 Hadley, George, 1955 Sept p 117, 122, 1956 Dec p 40, 1970 Sept p 60-62 Hadlow, William J, 1967 Jan p 111, 112 Hadrian, 1965 July p 84, 90, 91, 1974 Dec p 123, 1977 Jan p 104, 108, Feb p 38-41 Haeckel, Ernst, 1953 May p 94, 1959 May p 64, Aug. p 106, 1966 Nov p 46, 48, 1972 Sept p 87, 1973 Apr p 97, 1976 July p 93 Haedrich, Richard L, 1977 June p 51 Haefer, R. H., 1964 Jan p 111 Haeff, Andrew V, 1950 Oct p 38 Haeger, James S, 1963 Dec p 134 Haegg, Gunder, 1952 Aug. p 52, 1976 June p 110, 114 Haen, Anton de, 1967 Feb p 95 Haensel, Vladimir, 1951 Oct p 33, 1971 Dec Haenszel, William, 1956 Sept p 120 Hafele, Joseph C, 1972 Sept p 67, 1973 May Haffley, James D, 1972 Jan p 50 Hafner-Alteneck, F von, 1961 May p 116 Hafstad, Lawrence R., 1949 July p 33, 36, 1950 Aug. p 16, 1951 Apr p 32, 1952 July p 67, 1957 Feb p 60 Haga, H., 1972 June p. 92 Hagbarth, K.-E, 1961 Feb p 45 Hagedorn, Rolf, 1975 Feb p 61, 62 Hagelbarger, D W, 1954 July p 48 Hagelin, Boris C W, 1966 July p 39, 44 Hagen, Charles W Jr, 1964 June p 87 Hagen, Donald, 1973 May p 37 Hagen, John P, 1955 Dec p 54, 1957 July p 50 Hagfors, Tor, 1968 July p 37 Haggard, Howard W, 1957 Jan p 73 Haggerty, Patrick E, 1966 Mar p 55, 1977 Hagins, W A, 1963 Oct p 87, 1972 May p 50 Hagiwara, Susumu, 1970 Apr p 89 Hagstrom, Berndt, 1959 July p 128, 130 Hague, Frank, 1972 Sept p 168 Hagy Museum, 1971 Oct p 101 Hahn, Beat, 1956 July p 64 Hahn, E. L., 1967 June p 57, 1968 Apr p 32 Hahn E. V., 1951 Aug p 56, 1975 Apr p 46 Hahn, Hans, 1952 Nov p 76, 77, 1954 Apr Hahn, Jan, 1957 Aug p 54, 1962 June p 137 Hahn, Otto, 1948 July p 31, 1949 Dec p 15, 1950 Sept p 31, 1955 Oct p 34, 1957 June p 72, 1958 Sept p 80, 1967 Nov p 27 1970 June p 48 Hahn, Theodore J. 1975 July p 73 Hahn, W C 1954 Mar p 88 Hahn, William E, 1963 Nov p 112 Hailsham, Viscount 1963 Apr p 82 Haimbili, 1950 Oct p 54 Haimowitz, Natalie, 1952 Nov p 70 Hajnal, John, 1974 Sept p 139 Hajos Anton, 1962 May p 72 Hajos, Marta, 1972 Dec p 33 Haken, Wolfgang, 1976 Oct p 57, 1977 Oct p 108, 114, 1978 Jan p 105 Hakimi, S Louis, 1970 July p 96, 103 Hakomon, Sen-itiroh, 1975 Apr p 89 Halaby, Najech E., 1963 Aug p 48 Halban II von, 1958 Feb p 84 Halberg, Franz, 1971 Apr p 72 78 Halberstaedter, L. 1964 Jan p 80 Ha'dane J B S, 1948 June p 38, 1949 Mar p 19, 1950 Jan p 33, 35, 1951 Mar p 31, 1952 I eb p 66, 1953 Sept p 104, 1954 May P 35 1955 Sept p 80, Nov p 64, 1958 June p. 51, Sept. p. 100, 1959 Sept. p. 141, 156 155 1963 May p 104, 1965 Aug. p 95, 1971

Apr p 106, 1972 Feb p 40, June p 41, 45 Haldane, John S, 1950 Sept p 72, 1951 Oct p 57, 1965 May p 88, 89 Haldemann, Edward G, 1961 Oct p 119 Hale, Edward E, 1957 Nov p 67 Hale, Enoch, 1954 Nov p 64 Hale, George E., 1948 Aug p 16, Nov p 38, 1949 Dec p 16, 1950 Sept p 24, 25, 1952 Feb p 43, Mar p 56, 1953 June p 56, 1955 May p 42, 1956 Sept p 79, 1960 Feb p 53-55, 59, 1961 Jan p 109, 1966 Nov p 54, 1969 June p 96, 1971 Aug p 66, 1975 Apr p 109 Hale, Herbert M, 1966 Mar p 86 Hale, Mason E, 1963 Feb p 127 Hale Observatories, 1971 July p 77, 1977 Aug p 36 Hale, William, 1949 May p 32 Hales, Anton L, 1960 May p 95, 1973 Mar Hales, Stephen, 1952 Oct p 78, 79, 82, 1976 May p 98-107 Haley, Jay, 1962 Aug p 71 Halford, Henry, 1969 July p 43 Hall, A R., 1954 Dec p 95, 1956 Aug p 59 Hall, Asaph, 1977 Feb p 30, 31, 33 Hall, Benjamin D, 1961 Sept p 82, 1962 Apr p 77, 78, 1964 May p 49, 56 Hall, C A., 1949 June p 22, 24 Hall, Cecil E, 1957 Sept p 205, 208, 209, 214, 216, 1958 Nov p 71, 1960 Apr p 85, 1961 May p 122, 125, 1962 Jan p 71, Feb p 48, Mar p 62, 65, July p 109-111, 1963 Feb p 69, Dec p 48, 1969 Nov p 120 Hall, Charles F, 1969 Mar p 52 Hall, Chester M, 1961 Jan p 99 Hall, D A, 1959 Feb p 68 Hall, David O, 1960 Nov p 105 Hall, E H, 1961 Dec p 124, 1968 Nov p 88, Hall, Elisa, 1974 May p 78 Hall, Freeman F Jr, 1968 Aug p 52 Hall, George M, 1963 Mar p 121 Hall, H Tracy, 1955 Apr p 47, Nov p 46, 1958 June p 35, 1960 Jan p 74, Apr p 90, June p 156, 1965 May p 40, 41, 1974 Aug p 62, 1975 Nov p 105 Hall, Harlow, 1952 Apr p 53 Hall, Henry E., 1969 Dec p 28 Hall, James 1950 May p 33 Hall Jeffrey, 1973 Dec p 23, 36, 37 Hall, John A, 1977 Dec p 117 Hall, John L, 1969 Dec p 92, 93 Hall, John S , 1956 Mar p 88, 1959 Dec p 102, 1964 Feb p 67, 1965 June p 46, 1967 Oct p 108 Hall, K R. L., 1961 Feb p 43 Hall, L N 1966 July p 107 Hall, Michael 1970 Oct p 86 Hall, Prudence J. 1962 Feb p 119, 120 Hall, R N , 1950 Jan p 44 Hall, Robert A Jr 1959 Feb p 128 Hall, Robert N , 1963 July p 38 Hall, Thomas, 1957 Feb p 111 Hall Walter 1974 May p 78 Hall, William, 1948 June p 53 Hall, William T 1971 Aug p 53 Hallam A 1975 Feb p 91 Hallam Kenneth L 1955 Feb p 42. Hall-Craggs, Joan 1973 Aug p 74, 78 Halle Morns 1973 Dec p 113 Haller, Albrecht von, 1972 May p 32-34 Haller Edward E. 1976 June p 37 Hallermaver Rudolf, 1975 Mar p 95 Halley, Edmund Sir, 1949 Jan p 31, 33, 41, 1950 Nov p 16, 1952 Aug. p 36, 1954 June p 77, 1955 July p 69, Dec p 78 73, 1964

Mar p 103, 106, 1967 Dec p 97, 1970 Nov p 104, 1972 Apr p 47, June p 81, 1974 Aug p 26 Halliday, Ian, 1963 Dec p 81 Halliday, Martin, 1971 Mar p 65 Halls, Sheila, 1967 Dec p 26 Halmos, Paul R., 1957 May p 88 Halperin, Y, 1975 Oct. p 104 Halpern, Florence, 1969 Dec p 20 Hals, Frans, 1959 Oct p 161 Halsbury, Earl of, 1957 May p 66 Halsey, George D Jr, 1973 May p 36 Halstead, Scott B, 1973 Jan p 26 Halstead, Ward C, 1948 Oct p 38 Halsted, William S, 1957 Jan p 74 Halton, J H, 1978 Jan p 109 Hamblen, E C, 1951 Apr p 35 Hamburg University, 1958 June p 62, 65 Hamer, David, 1975 Dec p 98 Hamerton, John, 1961 Nov p 69, 1974 July p 40 Hamilton, Alexander, 1957 Nov p 47, 1974 Sept p 44 Hamilton, Archibald H, 1954 May p 84 Hamilton, Charles R, 1964 Jan p 49, 1967 May p 97 Hamilton, G V, 1954 Jan p 51 Hamilton, J G, 1949 Feb p 33 Hamilton, James B, 1958 Feb p 27 Hamilton, Lawrence S, 1978 Jan p 41 Hamilton, P A, 1971 Dec p 27 Hamilton, Paul B, 1972 June p 44 Hamilton, T W, 1963 July p 84 Hamilton, Terrell H, 1972 Mar p 42, 1975 Feb p 52 Hamilton, W D, 1971 June p 118 Hamilton, Warren, 1971 Nov p 58 Hamilton, William R., 1950 Sept p 42, 1953 Nov p 93, 1954 May p 82-84, 85, 86, 87, June p 78, 1955 Oct p 100, 1956 Aug p 43, 44, 44, 1958 Sept p 60, 63, 76, 82, 144, 1961 May p 158, 1964 Sept. p 54, 57, 73, 131, 132, 1977 Apr p 123, July p 126, 1978 Jan p 101-105 Hamilton, William T, 1964 June p 34 Hamkalo, Barbara A, 1973 Mar p 40 Hamlet, John, 1960 May p 148 Hamlyn, L H, 1965 Jan p 58 Hammack, Francis R., 1949 July p 33 Hammar, S L, 1973 Aug p 44 Hammarskjold, Dag, 1955 July p 50 Hamme, Anna van, 1948 May p 30 Hammel, E. F., 1949 June p 37, 1958 June p 35 Hammer, Clifford E. Jr, 1964 May p 98 Hammerling, Joachim, 1953 Feb p 47, 1966 Nov p 118, 120 Hammermesh, B, 1949 Mar p 37 Hammersly, John M, 1978 Jan p 109 Hammerstein, Einar, 1953 Feb p 57 Hammerton, John L, 1963 July p 55 Hammes, Gordon G. 1969 May p 35 Hamming, Richard W, 1950 July p 27, 1962 Feb p 100-102, 104 Hammon, William McD, 1952 Nov p 29, Dec p 28, 1953 June p 52, 1954 Apr p 45 Hammond, Alexander R, 1963 Nov p 108 Hammond, E. Cuyler, 1954 Aug. p 37, 1962 July p 44, 46, 1964 Feb p 66, 1965 Dcc p 40, 1966 Apr p 48, Aug p 42, 1967 Oct p 49, 1968 Apr p 44, Dec. p 50 Hammond, Norman, 1977 Mar p 116, 122. Hammond, P. C., 1963 Oct. p. 101 Hammurabi, 1948 June p 45-47, 1953 Jan p 27 1957 Oct p 83 Hamner, Karl C. 1952 May p 52, 1958 Apr p 109, 114

Hampel, Arnold, 1969 Mar. p. 50. Hamstra, Roger, 1972 Jan. p. 50. Hamza, V. M., 1977 Aug. p. 67. Han, Moo-Young, 1975 June p. 60, 62; 1976 Nov. p. 51, 55. Hanafusa, Hidesaburo, 1963 June p. 74; 1964 June p. 51, 52. Hanafusa, Teruko, 1963 June p. 74. Hanaoka, T., 1964 Dec. p. 54. Hanawalt, Philip C., 1967 Feb. p. 39. Hanbury-Brown, R., 1966 Aug. p. 35. Hanby, W. E., 1954 July p. 57, 58 Hancher, Virgil M., 1953 May p. 54. Hancock, Thomas, 1956 Nov. p. 75, 76. Handel, George F., 1957 Feb. p. 117; 1967 Dec. p. 103. Handleby, John, 1963 Mar. p. 98. Handlirsch, Anton, 1975 Dec. p. 110. Handwenker, L. W. Jr., 1975 July p. 60. Haneda, Yata, 1962 Dec. p. 77, 78; 1976 May p. 74, 78. Hanel, Rudolf A., 1977 July p. 39. Hanenson, Irwin B., 1962 Aug. p. 100. Hanford Laboratories, 1966 June p. 98. Hangen, Frederick P., 1961 Feb. p. 47. Hanington, C. H., 1966 June p. 110. Hankin, E. H., 1962 Apr. p. 133; 1973 Dec. Hanna, Gordie C., 1967 Aug. p. 59. Hanna, Mark, 1948 Nov. p. 13; 1963 Mar. p. 124, 127. Hannah, John A., 1974 Jan. p. 51. Hannah-Alava, Aloha, 1960 May p. 119; 1961 Nov. p. 74. Hannay, James B., 1955 Nov. p. 43; 1975 Nov. p. 102. Hannay, N. Bruce, 1971 Nov. p. 30. Hannibal, 1954 Nov. p. 62; 1963 Aug. p. 66; Dec. p. 115; 1969 Sept. p. 59, 60. Hansch, Theodore W., 1971 May p. 50. Hansemann, D., 1970 Dec. p. 77. Hansen, Carl L., 1976 Aug. p. 31, 34, Hansen, Clarence M., 1967 Jan. p. 60. Hansen, Emil C., 1959 June p. 96. Hansen, Ernst, 1964 Nov. p. 54. Hansen, J. E., 1975 Sept. p. 76. Hansen, John W., 1973 June p. 53, 55. Hansen, L. F., 1972 Oct. p. 103, 108. Hansen, Marc F., 1964 Jan. p. 73. Hansen, Richard, 1975 Apr. p. 108. Hansen, S. F., 1975 Apr. p. 108. Hansen, Thorkild, 1969 Dec. p. 36. Hansen, W. H., 1954 Oct. p. 40, 43, 44. Hansen, Walter L., 1976 June p. 37. Hansen, William W., 1948 Sept. p. 23; 1954 Mar. p. 88; 1955 Aug. p. 65, 66; 1972 Nov. p. 104. Hansmann, Gerald, 1974 Dec. p. 45. Hanson, Arnold, 1963 June p. 53. Hanson, Eskil, 1971 Nov. p. 86. Hanson, Frank, 1976 May p. 74, 76 82, 83. Hanson, Harley M., 1958 Jan. p. 80. Hanson, Jean, 1958 Nov. p. 67, 70, 74; 1961 Sept. p. 185, 192; 1965 June p. 79, 86; Dec. p. 20, 24; 1974 Feb. p. 59; 1975 Nov. p. 38. Hanson, K. J., 1969 Jan. p. 65. Hanson, Lincoln F., 1956 Mar. p. 34. Hanson, Thomas E., 1973 Dec. p. 35. Hanson, Wayne C., 1967 Mar. p. 29. Hanson, William B., 1964 Apr. p. 75; 1977 July p. 37. Hansson, B., 1968 Dec. p. 42. Hansson, Reine, 1975 Mar. p. 18, 19. Hansteen, Christopher, 1955 Sept. p. 152. Hanway, Jonas, 1976 Jan. p. 116. Hao Li, Choh, 1950 Mar. p. 33, 36; Oct. p. 22; 1967 July p. 105; 1973 Sept. p. 41.

Hapgood, Charles H., 1963 Feb. p. 77. Hapke, Bruce W., 1967 Mar. p. 68; 1975 Sept. Hapner, Kenneth, 1975 Jan. p. 85. Happey, F., 1954 July p. 57, 58, Harada, Kaoru, 1964 Apr. p. 64. Harberger, Arnold C., 1960 Sept. p. 202. Harbison, Frederick, 1963 Sept. p. 140, 142, 184. Harborne, J. B., 1964 June p. 88. Harcourt, R. A., 1977 Dec. p. 162. Harden, Arthur, Sir, 1950 Sept. p. 63; 1953 Apr. p. 85, 86; 1960 Feb. p. 141; 1967 Nov. p. 27. Harder, Richard, 1978 Feb. p. 104. Hardie, Robert, 1959 Apr. p. 98. Hardin, Clifford M., 1970 Jan. p. 48. Harding, R. S., 1975 Jan. p. 71. Harding, Warren G., 1963 Mar. p. 118; 1970 May p. 23. Hardwick, D., 1975 Apr. p. 123. Hardy, Edward P. Jr., 1967 Mar. p. 26. Hardy, Edward S. C., 1956 Aug. p. 59. Hardy, G. H., 1948 June p. 54, 56, 57; 1950 Sept. p. 42, Hardy, Harriet L., 1958 Aug. p. 29, 31. Hardy, J. D., 1967 Feb. p. 97. Hardy, John C., 1978 June p. 66. Hardy, Ralph W. F., 1976 Sept. p. 168; 1977 Hardy, William D. Jr., 1968 Aug. p. 40; 1977 May p. 73. Hargitay, B., 1957 Apr. p. 102. Hargrave, P. J., 1975 Aug. p. 30. Hargraves, Robert B., 1961 Aug. p. 55; 1972 Nov. p. 51; 1977 Jan. p. 90; 1978 Mar. p. 87. Hargreaves, James, 1952 Sept. p. 150; 1960 Sept. p. 189; 1972 Dec. p. 51. Hargreaves, William A., 1965 Mar. p. 89. Harington, Charles R., 1967 June p. 57; 1968 Feb. p. 108, 115; 1971 June p. 95. Hariot, Thomas, 1977 June p. 122. Harken, Dwight E., 1950 Jan. p. 14; 1960 Feb. p. 79. Harker, David, 1966 July p. 101; 1967 Mar. p. 49. Harkins, William D., 1948 June p. 32; 1961 Mar. p. 152. Harkness, Edward S., Sir, 1974 Apr. p. 100. Harlan, Eugene A., 1974 Oct. p. 39. Harlan, Jack R., 1975 June p. 15; 1976 Sept. p. 34, 89. Harlan, John M., 1969 Feb. p. 17. Harland, W. Brian, 1964 Aug. p. 30. Harley, Brian, 1964 Dec. p. 72, 76. Harlow, Francis H., 1966 Sept. p. 165. Harlow, Harry F., 1954 Feb. p. 70; 1961 June p. 68; 1962 Nov. p. 141; 1963 June p. 142; 1968 June p. 66; 1969 July p. 108, 114; 1970 Apr. p. 98; 1972 Feb. p. 28; Mar. p. 78; Dec. p. 25. Harlow, Margaret K., 1963 June p. 142; 1969 July p. 108; 1972 Mar. p. 78. Harman, Denham, 1969 Mar. p. 50; 1970 Aug. p. 70. Harman, Ted, 1964 June p. 72, 79; 1965 Apr. Harmer, Don S., 1969 July p. 28, 29, 32. Harmodica, 1949 June p. 42. Harmodios, 1966 Dec. p. 105. Harmon, Leon D., 1970 June p. 81; 1972 Sept. p. 34; 1974 Jan. p. 84. Harmon, Lindsey R., 1961 May p. 84. Harnoncourt, Anne d', 1977 Jan. p. 61. Harnwell, Gaylord P., 1966 Feb. p. 53. Haro, Guillermo, 1967 Aug. p. 34; 1972 Aug. p. 60. Harp, Elmer J., 1976 Nov. p. 122. Harper & Brothers, 1949 Jan. p. 22.

Harper, Peter, 1971 Apr. p. 113. Harper, W. G., 1959 Mar. p. 69. Harpstead, Dale D., 1969 Nov. p. 58; 1971 Aug. p. 34; 1974 Aug. p. 78. Harpster, Hilda T., 1949 Dec. p. 54. Harrap, B. S., 1969 Aug. p. 90. Harrell, Nell, 1972 June p. 113. Harries, C. D., 1956 Nov. p. 79, 81. Harriman, W. Averell, 1949 Feb. p. 16, 19; 1973 Aug. p. 42. Harrington, J. P., 1952 Dec. p. 17. Harrington, R. H., 1964 May p. 78. Harrington, R. W., 1958 Mar. p. 41. Harrington, William J., 1961 Feb. p. 63. Harriot, Thomas, 1975 June p. 49. Harris, Charles S., 1967 May p. 100, 104. Harris, Dale A., 1949 Aug. p. 34. Harris, Edward D. Jr., 1974 Nov. p. 49. Harris, F. S., 1959 June p. 124. Harris, Florence R., 1967 Mar. p. 81. Harris, Frank J., 1949 Oct. p. 28. Harris, G. G., 1962 June p. 134. Harris, Geoffrey W., 1964 Feb. p. 61; 1966 Apr. p. 86; 1972 Nov. p. 28. Harris, Harry, 1970 Mar. p. 103, 104; 1974 Sept. p. 82; 1975 Aug. p. 55. Harris, Henry, 1965 Apr. p. 62; 1969 Apr. p. 30, 35; 1973 June p. 87; 1974 July p. 36. Harris, Isidore, 1959 Aug. p. 42. Harris, Isodore, 1958 Apr. p. 50. Harris, J. I., 1955 July p. 78; 1961 July p. 102; 1969 Oct. p. 28. Harris, J. W. K., 1978 Apr. p. 96. Harris, James A., 1970 June p. 48. Harris, Jerome S., 1950 Mar. p. 53. Harris, John M., 1978 Apr. p. 98. Harris, John R., 1977 Nov. p. 142. Harris, John W., 1951 Aug. p. 58. Harris, Judith R., 1967 May p. 100, 104. Harris, L. J., 1967 Jan. p. 84. Harris, Louis S., 1966 Nov. p. 135. Harris, Patricia, 1953 Aug. p. 61; 1961 Sept. p. 112, 118. Harris, S. E., 1968 Sept. p. 134. Harris, Stanton A., 1961 June p. 142. Harris, Van T., 1964 Oct. p. 109, 110, 112, 113, Harris, Virgil, 1956 Apr. p. 100. Harris, Warren W., 1973 Aug. p. 95. Harris, William A., 1973 Dec. p. 37. Harris, William F., 1975 Aug. p. 41; 1977 Dec. p. 130. Harris, William N., 1970 Nov. p. 25. Harris-Intertype Corporation, 1972 Sept. p. 140. Harrison, Benjamin, 1976 June p. 21. Harrison, Christopher, 1967 Feb. p. 53; July p. 33. Harrison, Edward R., 1962 Apr. p. 77; 1970 June p. 34. Harrison, Francis B., 1956 Jan. p. 61. Harrison, George R., 1952 June p. 50, 54; 1953 Apr. p. 48. Harrison, Harold E., 1971 Feb. p. 17, 21. Harrison, Henry C., 1961 Aug. p. 77. Harrison, Henry T., 1957 Apr. p. 139. Harrison, Heslop, 1959 Mar. p. 48. Harrison, J. Hartwell, 1959 Oct. p. 60. Harrison, Ross G., 1956 Oct. p. 50, 51; 1957 Nov. p. 83, 86; 1969 Dec. p. 55; 1977 July p. 67, 76. Harrison, Virginia F., 1964 Mar. p. 58. Harrison, William, 1977 Nov. p. 141. Harrisson, Tom, 1965 May p. 79. Harrower, Molly R., 1974 July p. 90, 94-97, 103. Hart, E. B., 1972 July p. 56. Hart, Edwin J., 1963 Apr. p. 82; 1967 Feb. p. 80. Hart, H. R. Jr., 1969 June p. 38.

Hart, Ivor, 1971 Feb p 101 Hart, Larry G, 1970 Apr p 75 Hart, Philip A , 1973 Aug p 42 Hart, Roger, 1956 June p 46 Harteck, Paul, 1956 Dec p 54, 1974 Oct p 76 Harter, Noble, 1970 Dec p 33 Harrley, Brian, 1974 July p 77, 82 Hartley, David, 1951 Aug p 63, 1959 Aug. p 89, 91 Hartley, Ralph V L, 1949 July p 11, 1971 Dec p 93 Hartley, Ruth E., 1972 Jan. p 35 Hartley, William, 1970 Feb p 93 Hartline, H K., 1956 Dec p 114, 115, 120, 1961 Sept p 224, 228, 231, 1963 July p 123, 128, 1964 Mar p 113, Dec p 48, 1966 May p 107, 1967 May p 48, Dec p 48, 1969 May p 107, 1972 June p 95, 96 Hartman, C D, 1965 Mar p 33, 35 Hartman, Chester, 1965 Sept. p 199 Hartman, David E., 1977 Apr p 26 Hartman, Frank, 1954 Jan. p 55 Hartman, Homer J, 1961 Jan p 86 Hartman, Hyman, 1972 Jan p 67 Hartman, Nile, 1976 Oct. p 93 Hartman, T, 1959 Nov p 95 Hartmann, Johannes F, 1973 Mar p 51 Hartmann, Julius, 1970 Jan p 45, 46 Hartmann, Max, 1966 Nov p 120 Hartmann, W K., 1973 Jan p 66 Harimann, William K., 1978 Mar p 77 Hartmann, William T, 1977 Jan p 84, 94 Hartree, Douglas R., 1968 July p 62, 68, 1970 Apr p 54, 56-58, 70 Hartree, E. F., 1967 Nov p 69 Hartree, William, 1970 Apr p 54, 56-58, 70 Hanndge, Hamilton, 1950 Feb p 28, Aug p 52, 1960 Dec. p 146, 1969 May p 30 Hartseker, Niklaas, 1956 June p 92 Hartsell, S E., 1960 June p 132, 133, 142, 1966 Nov p 78 Hartsoeker, Niklaas, 1950 Feb p 53, 1970 May p 117, 119 Hartsough, Walter, 1948 June p 37 Hartsuck, J. A., 1968 Apr p 49 Hartwell, Leland H, 1974 Jan p 58 Hartwick, F D A, 1978 Apr p 80 Hartzler, Jon, 1978 May p 118 Haruna, Ichiro, 1965 Nov p 50 Harvard College Observatory, 1948 Nov p 34, 1950 Feb p 30, 34, 36, 38, 1952 July p 47, 48, 1953 Dec p 43, 1956 Oct p 56-58, 61, Harvard College Observatory, 1958 Oct. p 44, 1962 Apr p 59, 1963 Apr p 66, June p 97, 102, July p 82, 84, Dec p 60, 1964 Jan p 32, 40, May p 78, 1966 Dec p 46, 1973 Oct p 69, 72-74, 76, 1974 Dec p 66, 1975 Sept p 43, 1977 Oct p 43, 53, 55 Harvard Computation Center, 1965 Nov p 103, 1966 Apr p 29, Sept. p 162, 163 Harvard Seismographic Station, 1962 June Harvard University, 1949 Sept p 32, 1951 Sept. p 58, 1953 Apr p 44, Dec p 35, 1955 Feb p 70,77, July p 52, Aug. p 48, 1956 Apr p 72, June p 71, July p 26, Aug p 45, 1957 Jan. p 56, Apr p 61, Sept. p 174, 209, 1958 Jan. p 78, Feb p 30, 70, Mar p 71, 118, June p 42, July p 49, Aug. p 31, 56, 61, Sept p 110, Oct p 110, Dec p 46, 1959 July p 67, 1960 Var p 108, Oct p 168, Dec p 88, 90, 1961 Nov p 100, 1962 July p 120, 1963 Feb p 82, 85, Mar p 83, 141, Apr P 121, 148, 149, May p 102, 130, June p 94, 9, July p 42, Juz. p 19, 56, Sept p 111, Qt p 41, 93, Nov p 113, 116, Doc p 45.

127, 130, 1964 Jan p 84, 86, Mar p 48, 70, Apr p 29, 43, 97, May p 51, 98, June p 94, July p 44, 101, Aug p 43, 86, Oct p 102, 114, 116, Nov p 31, 35, 65, 73, Dec p 48, 54, 56, 1965 Mar p 42, 74, Apr p 33, 99, 101, May p 38, 40, 59, 68, 70, 88, June p 100, 101, 106, 108, 116, July p 25, 26, 29-31, Sept p 123, 132, Oct p 68, 1966 Feb p 53, Mar p 58, May p 52, July p 70, 74, Sept. p 69, 1968 Dec p 38, 41, 43, 1970 Jan p 114, Nov p 44, 1971 Feb p 45, May p 33, 1974 Feb p 44, May p 59, June p 50, Sept p 170, 32, 33, 1976 Apr p 55, 1977 Dec p 153, 1978 Jan p 112, 115 Harvard University Arnold Arboretum, 1977, 1976 May p Nov p 96, 102117 Harvard University Fogg Museum, 1952 July p 22, 23, 25-27 Harvard University Gray Herbanum, 1977 May p 96, 102 Harvard University Medical School, 1949 July p 29, 1953 June p 52, 1956, Nov p 108, 109, 1957 June p 74, Oct p 112, Dec p 109, 112, 114, 1960 Dec p 146, 149, 1962 Apr p 66, Aug p 100, 106, 108, 1963 June p 82, Aug p 20, 21, 24, Oct p 27, 28, 46, Nov p 54, 1964 Jan p 83, 84, Mar p 41, May p 93, Dec p 51, 78, 106, 1965 July p 52, 53, 55, Aug. p 63, Sept p 199, Oct p 82, 1966 Apr p 102, Oct p 79, 82, 1970 Jan p 50, 1971 Aug p 20, 1972 Feb p 84, 86, 1974 Nov p 18 Harvard University Museum of Comparative Zoology, 1970 May p 44 Harvard University Peabody Museum, 1960 Sept p 82, 1971 June p 102 Harvard University Peabody Museum of Archeology and Ethnology, 1950 July p 23, 1972 May p 84 Harvard University Press, 1949 Oct p 14 Harven, Etienne de, 1961 Sept p 103, 108, 1977 May p 68 Harvey, Bernard G, 1955 July p 52, 1956 Dec p 67 Harvey, E. Newton, 1962 Feb p 117, Dec p 76, 79, 86, 1972 Dec p 62, 1977 Mar p 106, 110, 112 Harvey, Ethel B 1954 Apr p 75, 1958 Dec p 36, 37 Harvey, F. K., 1952 Aug p 43, 44 Harvey, George R., 1974 May p 64, 65, 77 Harvey, H W, 1949 Oct p 17 Harvey, J A. 1953 Aug p 29 Harvey, Jack, 1975 Feb p 43 Harvey, John W, 1975 Apr p 110 Harvey Mudd College, 1960 June p 82 Harvey, Newton, 1953 Apr p 90 Harvey, O J, 1956 Nov p 54 Harvey, Paul M., 1978 June p 101 Harvey, R. J., 1975 Jan p 65 Harvey, William, 1948 May p 25, 29, 1949 Dec p 56, 54, 1951 Oct p 57, 60, 1952 June p 56-60, 62, Aug. p 60, 1953 Jan p 40, 1954 Feb p 55, Aug p 24, 45, 1957 Mar p 114, 1958 June p 74, 1959 Jan p 54, Feb p 100, 101, June p 106 Oct. p 173, 1960 Sept p 178, 1968 Feb p 86, 1972 May p 75, 1976 May Harwick Duane H 1975 July p 64 Harza Engineering Company, 1965 Var p 28 Hasan al-Hasib, 1968 Apr p 96 Hasebe, K. 1976 Oct p 97 Haselgrove, C B, 1961 June p 115 Haselgrove, John, 1974 Feb p 69, 71, 1975 Nov p 40

Haseltine, Nathan S., 1954 Feb. p. 42.

Haseltine, William A., 1965 Aug. p. 26

Haseman, Leonard, 1952 July p 42 Hasenfratz, Peter, 1977 Mar p 64 Hashimoto, Sam, 1969 Sept p 98 Hashmi, Saad M., 1977 Nov p 70 Haskell, Peter T, 1971 Aug p 77 Haskins Laboratories, 1958 Aug p 94, 98 Hasler, A F, 1969 Jan. p 65 Hasler, Arthur D, 1951 Sept p 56, 1955 Aug. Haslerud, George M, 1956 May p 54 Haslewood, G A D, 1967 Jan. p 43 Hass, Hans, 1961 Aug p 45 Hassan ibn en Noman, 1978 Jan p 111 Hassan, S M, 1971 Dec p 86 Hassel, Odd, 1969 Dec p 48, 1970 Jan p 58 Hasselbach, Wilhelm, 1970 Apr p 86 Hässig, A, 1957 July p 96 Hastings, F W, 1965 Nov p 40 Hastings, J Woodland, 1977 Mar p 114 Hasumura, Yasushi, 1976 Mar p 32 Hatch, A B, 1952 Apr p 56 Hatch, Hal, 1973 Oct. p 84 Hatch, M D, 1969 Dec p 70 Hathaway, Anne, 1976 Oct p 117 Hatherton, Trevor, 1973 Aug p 69 Hatshepsut, 1954 Nov p 98, 1963 Nov p 123, 1969 Dec. p 40 Hatt, G, 1969 Nov p 46 Hattman, Stanley, 1970 Jan p 91 Hatton, C J, 1978 Apr p 127 Hatzakis, M., 1973 Apr p 65 Hauck, Walter W Jr, 1977 Jan p 43 Haufe, Robert, 1949 Oct p 29 Haught, Alan F, 1971 June p 26 Haughton, Samuel, 1950 Mar p 52, 55 Hauksbee, Francis, 1953 Aug p 64-69, 1974 Mar p 92 Haulenbeek, Joseph, 1953 Feb p 51 Haurowitz, Felix, 1954 June p 74, Nov p 78, 1964 Nov p 74 Haury, Emil W , 1951 July p 47, 1966 June p 107 Hauser, Henri, 1977 Nov p 151 Hauser, Philip M , 1962 Oct p 30, 1971 Apr p 50, July p 17, 43 Hauser, Walter, 1964 Mar p 88 Hauy, Rene J., 1953 Jan p 51, 54, 56, 1958 Aug. p 27 Havens, B L, 1958 Dec p 50 Haverford College, 1962 Mar p 66 Haviland, R. P., 1955 Sept p 72 Hawaiian Pineapple Company, 1952 May p 49 Hawanan Sugar Planters' Association, 1953 June p 79, 1973 Oct p 83 Hawanan Telephone Company, 1961 Sept p 84 Hawker Aircraft, Ltd., 1960 Aug. p 49 Hawkes, Herbert E. Jr., 1957 July p 42, 1958 Oct p 58 Hawkes, Jacquetta, 1953 Dec p 58, 1960 Nov D 154 Hawkesworth, C J, 1977 Mar p 100 Hawking, Frank, 1970 June p 123 Hawking, S W, 1978 May p 68 Hawking, Stephen, 1972 May p 44, 45, 1974 Dec p 35, 43 Hawkins, Augustus F., 1977 Nov p 49 Hawkins, Denis F, 1963 Nov p 103 Hawkins, Gerald S. 1975 Sept p 153 Hawkins, T. H., 1950 June p. 30 Hawkins, W D, 1951 Oct p 28 Hawkins, Willard R., 1959 June p 82 Hawn, Chnton V Z., 1962 Mar p 60 64 Haworth, Leland J., 1952 July p 35, 1961 May

p 74, 1962 Sept p 100, 1903 May p 74

Haworth, W N. 1967 Nov p 27

Hampel, Arnold, 1969 Mar. p. 50. Hamstra, Roger, 1972 Jan. p. 50. Hamza, V. M., 1977 Aug. p. 67. Han, Moo-Young, 1975 June p. 60, 62; 1976 Nov. p. 51, 55. Hanafusa, Hidesaburo, 1963 June p. 74; 1964 June p. 51, 52. Hanafusa, Teruko, 1963 June p. 74. Hanaoka, T., 1964 Dec. p. 54. Hanawalt, Philip C., 1967 Feb. p. 39. Hanbury-Brown, R., 1966 Aug. p. 35. Hanby, W. E., 1954 July p. 57, 58. Hancher, Virgil M., 1953 May p. 54. Hancock, Thomas, 1956 Nov. p. 75, 76. Handel, George F., 1957 Feb. p. 117; 1967 Dec. p. 103. Handleby, John, 1963 Mar. p. 98. Handlirsch, Anton, 1975 Dec. p. 110. Handwenker, L. W. Jr., 1975 July p. 60. Haneda, Yata, 1962 Dec. p. 77, 78; 1976 May p. 74, 78. Hanel, Rudolf A., 1977 July p. 39. Hanenson, Irwin B., 1962 Aug. p. 100. Hanford Laboratories, 1966 June p. 98. Hangen, Frederick P., 1961 Feb. p. 47. Hanington, C. H., 1966 June p. 110. Hankin, E. H., 1962 Apr. p. 133; 1973 Dec. Hanna, Gordie C., 1967 Aug. p. 59. Hanna, Mark, 1948 Nov. p. 13; 1963 Mar. p. 124, 127. Hannah, John A., 1974 Jan. p. 51. Hannah-Alava, Aloha, 1960 May p. 119; 1961 Nov. p. 74. Hannay, James B., 1955 Nov. p. 43; 1975 Nov. p. 102. Hannay, N. Bruce, 1971 Nov. p. 30. Hannibal, 1954 Nov. p. 62; 1963 Aug. p. 66; Dec. p. 115; 1969 Sept. p. 59, 60. Hänsch, Theodore W., 1971 May p. 50. Hansemann, D., 1970 Dec. p. 77. Hansen, Carl L., 1976 Aug. p. 31, 34. Hansen, Clarence M., 1967 Jan. p. 60. Hansen, Emil C., 1959 June p. 96. Hansen, Ernst, 1964 Nov. p. 54. Hansen, J. E., 1975 Sept. p. 76. Hansen, John W., 1973 June p. 53, 55. Hansen, L. F., 1972 Oct. p. 103, 108. Hansen, Marc F., 1964 Jan. p. 73. Hansen, Richard, 1975 Apr. p. 108. Hansen, S. F., 1975 Apr. p. 108. Hansen, Thorkild, 1969 Dec. p. 36. Hansen, W. H., 1954 Oct. p. 40, 43, 44. Hansen, Walter L., 1976 June p. 37. Hansen, William W., 1948 Sept. p. 23; 1954 Mar. p. 88; 1955 Aug. p. 65, 66; 1972 Nov. p. 104. Hansmann, Gerald, 1974 Dec. p. 45. Hanson, Arnold, 1963 June p. 53. Hanson, Eskil, 1971 Nov. p. 86. Hanson, Frank, 1976 May p. 74, 76 82, 83. Hanson, Harley M., 1958 Jan. p. 80. Hanson, Jean, 1958 Nov. p. 67, 70, 74; 1961 Sept. p. 185, 192; 1965 June p. 79, 86; Dec. p. 20, 24; 1974 Feb. p. 59; 1975 Nov. p. 38. Hanson, K. J., 1969 Jan. p. 65. Hanson, Lincoln F., 1956 Mar. p. 34. Hanson, Thomas E., 1973 Dec. p. 35. Hanson, Wayne C., 1967 Mar. p. 29. Hanson, William B., 1964 Apr. p. 75; 1977 July p. 37. Hansson, B., 1968 Dec. p. 42. Hansson, Reine, 1975 Mar. p. 18, 19. Hansteen, Christopher, 1955 Sept. p. 152. Hanway, Jonas, 1976 Jan. p. 116. Hao Li, Choh, 1950 Mar. p. 33, 36; Oct. p. 22; 1967 July p. 105; 1973 Sept. p. 41.

Hapgood, Charles H., 1963 Feb. p. 77. Hapke, Bruce W., 1967 Mar. p. 68; 1975 Sept. Hapner, Kenneth, 1975 Jan. p. 85. Happey, F., 1954 July p. 57, 58. Harada, Kaoru, 1964 Apr. p. 64. Harberger, Arnold C., 1960 Sept. p. 202. Harbison, Frederick, 1963 Sept. p. 140, 142, 184. Harborne, J. B., 1964 June p. 88. Harcourt, R. A., 1977 Dec. p. 162. Harden, Arthur, Sir, 1950 Sept. p. 63; 1953 Apr. p. 85, 86; 1960 Feb. p. 141; 1967 Nov. p. 27. Harder, Richard, 1978 Feb. p. 104. Hardie, Robert, 1959 Apr. p. 98. Hardin, Clifford M., 1970 Jan. p. 48. Harding, R. S., 1975 Jan. p. 71. Harding, Warren G., 1963 Mar. p. 118; 1970 May p. 23. Hardwick, D., 1975 Apr. p. 123. Hardy, Edward P. Jr., 1967 Mar. p. 26. Hardy, Edward S. C., 1956 Aug. p. 59. Hardy, G. H., 1948 June p. 54, 56, 57; 1950 Sept. p. 42. Hardy, Harriet L., 1958 Aug. p. 29, 31. Hardy, J. D., 1967 Feb. p. 97. Hardy, John C., 1978 June p. 66. Hardy, Ralph W. F., 1976 Sept. p. 168; 1977 Hardy, William D. Jr., 1968 Aug. p. 40; 1977 May p. 73. Hargitay, B., 1957 Apr. p. 102. Hargrave, P. J., 1975 Aug. p. 30. Hargraves, Robert B., 1961 Aug. p. 55; 1972 Nov. p. 51; 1977 Jan. p. 90; 1978 Mar. p. 87. Hargreaves, James, 1952 Sept. p. 150; 1960 Sept. p. 189; 1972 Dec. p. 51. Hargreaves, William A., 1965 Mar. p. 89. Harington, Charles R., 1967 June p. 57; 1968 Feb. p. 108, 115; 1971 June p. 95. Hariot, Thomas, 1977 June p. 122. Harken, Dwight E., 1950 Jan. p. 14; 1960 Feb. p. 79. Harker, David, 1966 July p. 101; 1967 Mar. p. 49. Harkins, William D., 1948 June p. 32; 1961 Mar. p. 152. Harkness, Edward S., Sir, 1974 Apr. p. 100. Harlan, Eugene A., 1974 Oct. p. 39. Harlan, Jack R., 1975 June p. 15; 1976 Sept. p. 34, 89. Harlan, John M., 1969 Feb. p. 17. Harland, W. Brian, 1964 Aug. p. 30. Harley, Brian, 1964 Dec. p. 72, 76. Harlow, Francis H., 1966 Sept. p. 165. Harlow, Harry F., 1954 Feb. p. 70; 1961 June p. 68; 1962 Nov. p. 141; 1963 June p. 142; 1968 June p. 66; 1969 July p. 108, 114; 1970 Apr. p. 98; 1972 Feb. p. 28; Mar. p. 78; Dec. p. 25. Harlow, Margaret K., 1963 June p. 142; 1969 July p. 108; 1972 Mar. p. 78. Harman, Denham, 1969 Mar. p. 50; 1970 Aug. p. 70. Harman, Ted, 1964 June p. 72, 79; 1965 Apr. Harmer, Don S., 1969 July p. 28, 29, 32. Harmodica, 1949 June p. 42 Harmodios, 1966 Dec. p. 105. Harmon, Leon D., 1970 June p. 81; 1972 Sept. p. 34; 1974 Jan. p. 84. Harmon, Lindsey R., 1961 May p. 84. Harnoncourt, Anne d', 1977 Jan. p. 61. Harnwell, Gaylord P., 1966 Feb. p. 53. Haro, Guillermo, 1967 Aug. p. 34; 1972 Aug. p. 60. Harp, Elmer J., 1976 Nov. p. 122. Harper & Brothers, 1949 Jan. p. 22.

Harper, Peter, 1971 Apr. p. 113. Harper, W. G., 1959 Mar. p. 69. Harpstead, Dale D., 1969 Nov. p. 58; 1971 Aug. p. 34; 1974 Aug. p. 78. Harpster, Hilda T., 1949 Dec. p. 54. Harrap, B. S., 1969 Aug. p. 90. Harrell, Nell, 1972 June p. 113. Harries, C. D., 1956 Nov. p. 79, 81. Harriman, W. Averell, 1949 Feb. p. 16, 19; 1973 Aug. p. 42. Harrington, J. P., 1952 Dec. p. 17. Harrington, R. H., 1964 May p. 78. Harrington, R. W., 1958 Mar. p. 41. Harrington, William J., 1961 Feb. p. 63. Harriot, Thomas, 1975 June p. 49. Harris, Charles S., 1967 May p. 100, 104. Harris, Dale A., 1949 Aug. p. 34. Harris, Edward D. Jr., 1974 Nov. p. 49. Harris, F. S., 1959 June p. 124. Harris, Florence R., 1967 Mar. p. 81. Harris, Frank J., 1949 Oct. p. 28. Harris, G. G., 1962 June p. 134. Harris, Geoffrey W., 1964 Feb. p. 61; 1966 Apr. p. 86; 1972 Nov. p. 28. Harris, Harry, 1970 Mar. p. 103, 104; 1974 Sept. p. 82; 1975 Aug. p. 55. Harris, Henry, 1965 Apr. p. 62; 1969 Apr. p. 30, 35; 1973 June p. 87; 1974 July p. 36. Harris, Isidore, 1959 Aug. p. 42. Harris, Isodore, 1958 Apr. p. 50. Harris, J. I., 1955 July p. 78; 1961 July p. 102; 1969 Oct. p. 28. Harris, J. W. K., 1978 Apr. p. 96. Harris, James A., 1970 June p. 48. Harris, Jerome S., 1950 Mar. p. 53. Harris, John M., 1978 Apr. p. 98. Harris, John R., 1977 Nov. p. 142. Harris, John W., 1951 Aug. p. 58. Harris, Judith R., 1967 May p. 100, 104. Harris, L. J., 1967 Jan. p. 84. Harris, Louis S., 1966 Nov. p. 135. Harris, Patricia, 1953 Aug. p. 61; 1961 Sept. p. 112, 118. Harris, S. E., 1968 Sept. p. 134. Harris, Stanton A., 1961 June p. 142. Harris, Van T., 1964 Oct. p. 109, 110, 112, 113, Harris, Virgil, 1956 Apr. p. 100. Harris, Warren W., 1973 Aug. p. 95. Harris, William A., 1973 Dec. p. 37. Harris, William F., 1975 Aug. p. 41; 1977 Dec. p. 130. Harris, William N., 1970 Nov. p. 25. Harris-Intertype Corporation, 1972 Sept. p. 140 Harrison, Benjamin, 1976 June p. 21. Harrison, Christopher, 1967 Feb. p. 53; July p. 33. Harrison, Edward R., 1962 Apr., p. 77; 1970 June p. 34. Harrison, Francis B., 1956 Jan. p. 61. Harrison, George R., 1952 June p. 50, 54; 1953 Apr., p. 48. Harrison, Harold E., 1971 Feb. p. 17, 21. Harrison, Henry C., 1961 Aug. p. 77. Harrison, Henry T., 1957 Apr. p. 139. Harrison, Heslop, 1959 Mar. p. 48. Harrison, J. Hartwell, 1959 Oct. p. 60. Harrison, Ross G., 1956 Oct. p. 50, 51; 1957 Nov. p. 83, 86; 1969 Dec. p. 55; 1977 July p. 67, 76. Harrison, Virginia F., 1964 Mar. p. 58. Harrison, William, 1977 Nov. p. 141. Harrisson, Tom, 1965 May p. 79. Harrower, Molly R., 1974 July p. 90, 94-97, 103. Hart, E. B., 1972 July p. 56. Hart, Edwin J., 1963 Apr. p. 82; 1967 Feb. p. 80. Hart, H. R. Jr., 1969 June p. 38.

Helinski, Donald R., 1967 May p 92, 1977 May p 55 Hell, Maximilian, 1951 Mar p 48 Hellawell, A., 1977 July p 82 Hellberg, Peter, 1975 Mar p 19 Hellbruegge, Heinrich, 1968 Apr p 27 Heller, Adam, 1966 Oct p 48, 1967 June p 86, Heller, H Craig, 1971 Apr p 75 Heller, Joram, 1970 Oct p 82 Helling, Robert B, 1975 July p 25, 29, 31 Helliwell, R. A., 1962 Sept p 81 Hellman, G, 1952 Jan p 58 Hellman, Karl H, 1975 Jan p 36, 37 Hellman, Louis M, 1950 Mar p 53 Hellstrom, Bo, 1973 Apr p 55 Hellwarth, Robert W, 1963 July p 40, 1964 Apr p 49 Helm, Robert W, 1977 Apr p 52 Helmer, Oscar, 1959 Mar p 54 Helmholtz, Hermann von, 1949 Aug p 55, 1952 Mar p 49, 1953 Feb p 79, 1956 Feb p 77, 1957 Dec p 98, 99, 1958 Mar p 94, 95, 96, 98, 100, 102, 1959 May p 84, 87, Nov p 102, 104, 112, 1960 June p 122, Oct p 145, 1961 Aug. p 73, Dec p 84, 1962 May p 103, 69, 70, July p 124, Nov p 83, 1963 Oct p 85, 1964 May p 115, 116, Nov p 109, Dec p 54, 56, 1965 Nov p 84, 85, Dec p 92, 1966 Dec p 80, 1967 May p 96, 99, Sept p 181, 1968 Jan p 117, June p 84, Nov p 66, 1971 Mar p 99, Sept p 188, Oct p 30, 1972 May p 30, 33-35, Aug p 86, 1973 July p 29, 30, 31, Aug p 76-78, Oct p 98, 1974 Jan p 87-91, 94, Apr p 91, 1975 Mar p 64, June p 78, Aug p 67, 72, 1976 Sept p 70, 1978 Jan p 126 Helmont, Jan B van, 1948 Aug p 26, 1950 May p 20, 1954 Aug p 45 Helpern, Milton, 1950 June p 45 Helsinki Conference on Security and Cooperation in Europe, 1977 Nov p 70 Helsinki Opthalmologic Clinic, 1964 Jan p 86 Helson, Harry, 1963 Jan p 109, 1964 Nov P 119 Helson, Ravenna, 1958 Sept p 151 Helsop-Harnson, John, 1968 Apr p 90 Helversen, Otto von, 1976 July p 110 Hemenway, Curtis L., 1963 June p 57 Hemeon, W C L., 1954 Nov p 49 Hemingway, Allan, 1953 Mar p 71 Hemingway, Ernest, 1962 Mar p 60, July p 62, 1967 Nov p 25 Hemmerly, Thomas, 1959 Jan p 43 Hemmings, E. Thomas, 1968 Mar p 54 Hempel, Carl G, 1973 May p 76 Hench, Philip S. 1949 July p 29, 1950 Mar p 31, 33, Oct p 21, Dec p 26, 1955 Jan p 58, 1963 July p 50, 1967 Nov p 25 28 Hendel, Alfred Z., 1971 Sept p 59 Hendel, H., 1967 July p 88 Hendershor, L C 1963 Nov p 99 Henderson, Donald A. 1971 Feb p 20, 1976 Oct p 25, 1977 Mar p 61 Henderson, J E., 1963 Aug p 19, 1964 Jan P 108 Henderson, Lawrence J. 1950 Sept p 73 1951 Sept. p 79, 1973 Apr. p 14, 1974 Nov. p 19 Herderson, Lloyd F, 1952 Mar. p 29 Henderson, Luis M., 1949 Dec p 54 Henderson, Richard, 1974 July p 80, 1975 Nov p 55, 1976 June p 40, 46 Herderson, 5 A, 1970 Dec p 46 Hendl R. G, 1975 \pr p 113 Herdricks Sterling B. 1959 Nov p 91, 1960 Dec. p 56, 60, 61, 1968 Sept p 158 51 Herdnekson, John R., 1965 May p 79

Hendriks, Herbert E, 1961 Aug p 54 Hendrix, Don, 1950 Dec p 38, 39 Henery, Michael, 1970 Oct p 60 Henery-Logan, K. R., 1957 May p 63 Henglein, A, 1968 Oct p 46 Hengstenberg, Dennis, 1972 Dec p 69 Henis, Yigal, 1966 July p Henisch, H K, 1977 May p 44 Henize, Karl G. 1963 Oct p 60 Henkin, Leon A, 1972 June p 83, 84 Henkin, Robert I, 1961 July p 64, 1971 Jan p 31, 1976 July p 52 Henkins, Henry, 1961 Aug p 113 Henle, Gertrude, 1961 May p 51, 53, 1973 Oct p 30, 31, 1976 May p 54 Henle, Walter, 1976 May p 54 Henle, Werner, 1961 May p 51, 53, 1973 Oct Hennelly, Edward J, 1962 Nov p 109 Hennessy, Douglas J, 1963 Mar p 45, 47 Henning, Roland, 1977 Oct p 99 Henning, U, 1967 May p 92 Hennock, Frieda B, 1951 May p 36 Henri, Frederic, 1962 Mar p 60 Henri, Victor, 1959 Aug p 120 Henrikson, Thormod, 1970 Aug p 76 Henriot, E, 1951 June p 45, 1961 Apr p 136-Henrique, Dom, 1969 Sept p 61, 62 Henriques, O M, 1959 Aug p 119 Henry Ford Hospital, 1963 Aug p 25 Henry, Geoffrey H, 1972 Aug p 86 Henry I, King, 1970 July p 18, 1974 May p 42 Henry II, King, 1956 Jan p 92, 1974 May p 42 Henry III, King, 1956 Jan p 92, 1961 Feb p 125, 1967 Dec p 119, 1973 Apr p 86-88 Henry IV, King, 1949 Jan p 43, 1971 June p 92, 1973 Apr p 86 88 Henry, James E, 1975 Nov p 60 Henry, John, 1970 Jan p 104 Henry, Joseph, 1953 Oct p 93, 1957 Nov p 47, 1965 July p 66, 1970 July p 19, 1971 May p 80, 81, 82 Henry, Joseph C, 1965 July p 29, 1968 Dec Henry, Louis, 1974 Sept p 46 Henry, Marguerite, 1949 Dec p 54, 56 Henry, O, 1953 Dec p 90 Henry, Patrick, 1959 Jan p 127 Henry, Paul, 1978 May p 69, 772 Henry, Prince of Battenburg, 1965 Aug p 89, Henry, Prince of Prussia, 1965 Aug p 88, 93 Henry, Prince of Russia, 1965 Aug p 91, 95 Henry, Prince of Wales, 1969 July p 42 Henry, R. C. 1969 July p 52 Henry Robert L 1955 Aug. p 29, 30, 33 Henry the Navigator, see Henrique, Dom Henry VIII, King, 1952 Jan p 30, 1956 June p 78 80, 1958 Mar p 45, 1973 Sept p 128, 1976 Oct p 117, 120 Henry Warren E, 1949 June p 38 Hensby, G S 1949 Mar p 36 Henschen G 1978 Apr p 64 Hensel, John C. 1976 June p 34, 36 Henselest, K., 1963 Nov p 112 Henshaw Paul 1953 Aug. p 48 Henson, Alexander, 1972 May p 52 Henson Donald, 1973 Jan p 28 Henz, John F. 1977 Apr p 60 Henze, William Jr. 1975 \pr p 109 Heoyi Dennis J. 1974 May p 112 Hepler, Norta, 1976 Dec p 45 Hepler, Peter, 1969 Dec p 59 Heppel Leon \ 1972 \uz. p 98, 1976 Apr Heppleston, & G. 1907 Nov p 66

Heppner, James P, 1955 Dec p 32, 1963 May p 91, 1965 Mar p 61, 66 Hepstinstall, Robert H, 1977 Feb p 82 Herachdes, 1949 Apr p 45 Herachtus, 1953 Sept p 56, 1959 Dec p 122, 138, 1963 Oct p 36, 1967 Jan p 98, May p 126, 1971 Mar p 50 Herachus, Emperor, 1961 June p 133, 1971 Aug p 31 Herb, R. G., 1970 Aug p 25, 26 Herber, R H, 1971 Oct p 86 Herbert, George, 1977 June p 123, 125 Herbig, George H, 1955 Nov p 49, 1958 Oct p 47, 1964 Dec. p 38, 1965 Feb p 92, 101, 1967 June p 33, 1968 Aug p 59, Dec p 44, 1974 Oct p 44, 1975 Per p 45, 1975 Per p 44, 1975 Per p 46, 1975 Per p 46, 1975 Per p 46, 1975 Per p 47, 1 1972 Aug p 60, 1973 Mar p 67, 1974 Oct p 39, 1975 Sept p 156, 1977 June p 70, Dec p 86 Herblock, see Block, Herbert L Herbst, Curt, 1961 Sept p 146 Herbst, Philip G, 1975 Mar p 18 Herbst, W E., 1977 June p 81 Herd, J A, 1961 Oct p 88 Heremans, Joseph, 1960 Mar p 140 Herget, Paul, 1961 Nov p 79 Hering, Ewald, 1959 May p 87, 1962 May p 68, 1964 Dec p 53, 54, 56, 1965 Feb p 46, 1968 Nov p 69, 1972 Aug p 86, 1974 Apr p 91, 1975 Aug. p 67, 68, 72 Hering, Wayne, 1964 Mar p 71 Herion, John, 1967 Nov p 67 Hentage, M B, 1972 Nov p 40, 41 Herk, A W H van, 1966 July p 86, 87 Herlihy, David J, 1972 Feb p 93 Herlinka, Josef, 1975 Mar p 98 Herlofson, A, 1971 July p 79 Herlofson, A N, 1969 Feb p 55 Herlofson, N., 1964 Nov p 38 Herman, Carlton M, 1957 Dec p 51 Herman, Robert C., 1954 Mar p 62, 63, 1956 Sept p 82, 87, Dec p 60, 1963 Dec p 35, 43, 1967 June p 36, 1978 May p 66 Herman, S G, 1969 Feb p 44 Herman, Zdenek, 1968 Oct p 46 Hermann et Cie, 1957 May p 93 Hermann, L, 1952 Nov p 58, 60 Hermann of Cannthia, 1974 Jan p 104 Hermans, J J, 1965 Aug. p 76 Hermans, T G, 1962 July p 123 Hermelin, Beata, 1973 Mar p 76 Hermens, Jos, 1976 June p 110, 111 Hermes, Robert, 1951 May p 66 Hermite, Gustave, 1951 Dec p 68 Hermogenes, 1973 Dec p 111 Hernandez, Homero, 1965 July p 94 Hernandez, William, 1969 Feb p 103 Hernandez-Peon, Raul, 1959 Aug p 95, 1961 Feb p 42, 1964 June p 68 Hernberg, Sven, 1971 Feb p 18 Her-Neit, Queen, 1956 July p 52 Herner, Albert E, 1963 Nov p 112, 113 Hemqvist, K. G. 1973 Feb p 89, 97 Hero of Alexandria, 1952 Aug p 25, 1959 June p 61, 1964 June p 112, 1965 Dec p 88, 1970 Aug. p 94, 96, Oct p 112-114, 118, 1971 Sept p 38, 40 Herod, Agrippa, 1965 July p 90 Herod Anupas, 1954 May p 85 Herod the Great, 1954 May p 40, 1956 Apr p 42, 1965 July p 84 88 - 90, 1973 Jan p 83, 84 Herodotus, 1949 Aug. p 11, 1952 July p 20. 1959 July p 100, 102, 109, 1961 Jun p 73. Mar p 120, June p 124, 127, 1962 Feb p 83, 87, 1963 July p 90, 1964 June p 104, 1965 May p. 101, 96, 1968 Oct. p. 113, 1969 Sept p 107, 1975 July p 50, 1978 Mar p 134

Hawthorne, J B, 1978 Apr p 123 Hawthorne, M F, 1966 July p 107 Havel, O P L, 1969 Apr p 63 Hay, H J, 1960 Apr p 79 Hay, Ian L, 1975 Dec p 101, 105 Hay, J J, 1963 Feb p 144 Hay, John, 1965 Aug p 88 Hay, John C, 1967 May p 97 Hay, R L, 1967 Feb p 51, 52 Hay, William, 1968 Dec p 106 Hayakawa, S., 1964 June p 42 Hayashi, C. C., 1972 Aug p 59 Hayashi, Chushiro, 1954 Mar p 63, 1967 Aug p 32, 33, 36 Hayashi, Izuo, 1970 Oct p 54, 1971 July p 32, 1973 Nov p 33 Hayashi, Marie, 1964 May p 56 Hayashi, Masaki, 1964 May p 53, 56 Hayashi, Shinji, 1976 July p 55 Hayashi, Teru, 1951 July p 32, 1962 Feb p 112, 1965 Mar p 73 Hayatsu, Hikoya, 1965 June p 57 Hayatsu, Ryoichi, 1972 June p 45 Hayden, Bruce P, 1972 May p 97 Hayden Planetarium, 1962 July p 122 Haydn, Franz J, 1967 Dec p 103 Hayek, Friedrich von, 1974 Dec p 60 Hayes, Albert J, 1966 Mar p 55 Hayes, Catherine, 1951 July p 32, 1954 Feb p 48, 1962 May p 133 Hayes, Cathy, 1969 Jan p 50, 1972 Oct p 92 Hayes, Colleen, 1975 Jan p 85 Hayes, Commodore, 1959 Aug p 77 Hayes, Dennis E, 1967 Feb p 54, 1969 Sept p 138 Hayes, Earl, 1975 Aug p 80 Hayes, Herbert K, 1951 Aug p 42, 1953 July Hayes, John, 1972 Oct p 83 Hayes, John W, 1978 Jan p 113 Hayes, Keith J, 1951 July p 32, 1954 Feb p 48, 1955 Feb p 75, 76, 1957 June p 146, 1962 May p 133, 1969 Jan p 50, 1972 Oct Hayes, Rutherford B, 1976 June p 21 Hayes, Wayland J Jr, 1956 Feb p 49 Hayes, William, 1956 July p 116, 1961 June Hayflick, Leonard, 1962 Mar p 118, 1973 Sept Hayford, J F, 1955 Sept p 167, 1967 Oct Hayhanen, Remo, 1966 July p 45, 46 Hayhow, W R, 1974 May p 50 Haynes, C Vance Jr, 1966 June p 104, Dec p 58, 1967 Jan p 44, Nov p 50, 1968 Mar p 54 Haynes, J Richard, 1976 June p 29, 31 Haynes, M P, 1976 Oct p 65 Haynes, Norman, 1965 Sept p 78 Haynie, John L, 1977 July p 76 Hays, Arthur G, 1959 Jan p 122, 123, 128, 1969 Feb p 19 Hays, Donald F, 1975 July p 60 Hays, James D, 1968 Apr p 57 Hays, Wayne L, 1954 Sept p 70, 1955 Feb Haystack Observatory, 1975 May p 85 Hayward, Alan, 1972 Dec p 59 Hayward, James N, 1969 Jan p 92 Hayward, Roger, 1948 Sept p 30, 1950 Sept p 32, 1952 June p 48, 52, 50, 1954 Dec p 52 Hazan, A , 1969 Nov p 89 Hazard, Cyril, 1954 July p 35, 1962 Mar p 42, 1963 Dec p 56, 1966 June p 39, Aug p 35, Dec p 40, 1971 July p 74 Hazard, Elia, 1968 Feb p 92

Hazelbauer, Gerald L, 1976 Apr p 44 Hazelden, John, 1972 May p 84 Hazeltine, Alan, 1954 Apr p 66 Hazelwood, Robert, 1954 May p 86 Hazen, D C, 1963 Aug p 85 Heacock, R L, 1966 Mar p 42 Heady, Earl O, 1976 Sept p 34, 107 Heald, C W, 1969 July p 66 Heald, Mark A, 1954 June p 30 Healey, J R, 1963 Oct p 60, 1964 Jan p 36, Healey, John E Jr, 1963 Jan p 66 Health Insurance Plan of Greater New York, 1963 Aug p 19, 23, 26 Health Service Corporations, 1973 Sept p 175 Healy, John H , 1975 May p 18 Heape, Walter, 1951 Mar p 45 Hearder, J N, 1971 May p 84 Hearn, David, 1977 Oct p 55 Hearn, Richard L, 1975 Oct p 22 Hearst, William R, 1949 Sept p 26, 1953 July Heath, F G, 1970 Feb p 22 Heath, James E., 1972 June p 73, 75 Heath, Robert D, 1956 June p 54 Heath, Robert G, 1970 Apr p 74 Heath, T. Sir, 1969 Nov p 98 Heatley, N G, 1954 Feb p 77 Heaviside, Oliver, 1949 Jan p 31, 1950 Sept p 41, 1952 Sept p 59, 1955 Sept p 126 Heawood, Perry J., 1977 Oct p 111 Hebb, D O, 1956 Jan p 39, Oct p 107, 1957 Jan p 52, 1958 Sept p 141, 1960 June p 128, 1961 June p 72, 1964 June p 60, 67, 1966 July p 91, Aug p 82, 1967 Jan p 85, 1970 July p 58, 1971 Aug p 82 Heberden, William Jr, 1969 July p 43 Hebern, Edward H, 1966 July p 40, 43 Hebrew Union College, 1963 Oct p 102 Hebrew University, 1963 Jan p 119 Hecht, Friedrich, 1960 Feb p 132 Hecht, Oscar, 1950 Mar p 36 Hecht, Selig. 1956 Dec p 118, 120, 122, 1962 Nov p 120, 122, 125, 1963 July p 124, 1966 Oct p 83, 1967 June p 76 Heck, N H, 1961 Aug p 58 Hecker, S S, 1976 Nov p 100 Heckly, Robert J, 1971 Dec p 33 Heckman, Kenneth C, 1957 Mar p 40 Hedberg, Hollis D , 1973 July p 93 Hedeman, E. R , 1965 May p 37 Hedge, Carl E, 1977 Mar p 100 Hediger, Heine, 1963 July p 101, 103, 1969 May p 54 Hediger, Henri, 1968 May p 118 Hedley, Charles 1962 Sept p 169 Hedlum, J M, 1973 Oct p 102 Hedqvist, Per, 1971 Nov p 91 Heeger, Alan J, 1973 May p 43 Heer, C V, 1953 Sept p 82 Heer, David M, 1973 Jan p 46 Heesch, Heinrich, 1977 Oct p 112, 115, 116, Heeschen, David S, 1956 Sept p 131, Oct p 57, 61, 66, 1957 Mar p 66, July p 55, 1960 Jan p 51, 1961 Mar p 88, 1962 Apr p 57, 1963 Dec p 54, 1964 Nov p 38, 1965 Mar Heezen, Bruce C, 1956 Dec p 90, 92, 1958 Apr p 32, 1959 May p 74, Oct p 82, 1960 Apr p 98, May p 92, Oct p 99, 1961 Oct p 156, Dec p 52, 61, 1962 May p 124, July p 104, 1963 Jan p 84, Nov p 140, 1966 Oct p 30, 1967 June p 52, July p 38, 1968 Apr p 56, Dec p 69, 1969 Nov p 106, 118 Heezen, Keith L, 1968 Feb p 116 Heslinger, Lee O, 1968 Feb p 44, 45, 1976 Oct

p 86 Hegel, Georg W F, 1958 Mar p 100, Sept p 102, 104, 1967 July p 50, 1972 Dec p 89 Hegsted, Mark, 1967 Jan p 58 Heiber, Walter, 1973 Dec p 55 Heidegger, Martin, 1949 Oct p 53 Heidelberg University, 1960 Nov p 182 Heidelberger, Michael, 1954 June p 71, 1959 Janp 41 Heidenham, Rudolf, 1951 Oct p 58 Heider, Grace M, 1974 Apr p 93 Heidmann, J., 1956 Apr p 58 Heidorn, George E, 1976 Oct p 60 Heidt, Herbert, 1974 Sept p 35 Heidt, Lawrence J, 1950 Aug p 20, 1953 Mar p 50, Nov p 52 Heifetz, Jascha, 1948 July p 37, 1976 Dec p 28 Heiken, Grant, 1972 Oct p 87 Heil, A , 1954 Mar p 88 Heil, O, 1954 Mar p 88 Heilbrunn, L V, 1954 Apr p 73, 1970 Apr p 86, 1973 Sept p 48, 1977 Nov p 133 Heiles, Carl, 1978 Jan p 74 Heilmeier, George H, 1970 Apr p 100, 1973 June p 69 Heim, Albert, 1950 Sept p 36 Heim, Michael H, 1974 Nov p 54 Heiman, Frederick P, 1973 Aug. p 50 Heimann, Hugo, 1967 Mar p 93 Heimer, Lennart, 1971 July p 48 Heimer, Walter I, 1958 Aug p 70, 1974 Jan Heimlich, Henry J, 1975 Dec p 50 Hein, Robert A, 1964 June p 56 Heine, Bernd, 1977 Apr p 109, 110 Heme, Heinrich, 1958 Sept p 162 Heine, Ralph W, 1967 Mar p 78 Heine, V, 1964 June p 72 Heinemann, Stephen F, 1968 May p 112 Heinmets, F, 1951 May p 49 Heinrich, Bernd, 1973 Apr p 97 Heinroth, Oskar, 1958 Dec p 69, 1973 Dec Heinz Steinitz Marine Biological Laboratory, 1977 Mar p 106 Heinzelman, R. V., 1961 July p. 106 Heinzeler, James R., 1962 Sept. p. 83, 1967 July p 38, 1968 Apr p 57 Heirzler, James R, 1963 Nov p 69, 1969 June p 34, 1975 Aug p 81 Heise, John, 1975 Mar p 31, 33, 1976 Aug Heisenberg, Martin, 1973 Dec p 28 Heisenberg, Werner, 1948 May p 20, 1949 Mar p 53, Apr p 25, Oct p 13, Dec p 15, 1950 Feb p 24, July p 51, Sept p 30, 42, 1951 May p 33, 1952 Feb p 34, June p 28, 1953 Sept p 56, 1954 May p 86, 87, 1955 Jan p 68, Apr p 34, June p 32, Oct p 44, 1957 Apr p 68, June p 72, July p 74, 83, 1958 Jan p 52, 54, 55, Sept p 136, 77, 79, 81, 82, 1959 Jan p 77, Oct p 160, 1963 May p 46. 47, 49, 53, 1964 Feb p 74, Sept p 131, 1967 Sept p 224, 83, Nov p 27, 59, 1968 May p 25, 1969 Aug p 62, 1971 June p 71, July p 98, Aug p 98, 1973 Nov p 44, 1975 June p 56, Dec p 61, 66, 1976 Jan p 45, 50, 1977 Mar p 64, 1978 Feb p 131 Heitler, Walter, 1949 Mar p 35, 36, Oct p 11-14, 1967 June p 66 Hentz, Emil, 1964 Apr p 50 Heizer, Robert F., 1975 Jan p. 103 Helback, Hans 1952 Oct p 64, 1960 Sept p 144, 1964 Apr p 97, 99 Held, Richard, 1962 Jan p 47, 1967 May p 96 99, 1976 Nov p 43 Helena, Empress, 1965 July p 90, 91

Hildebrand, Roger H., 1955 Feb. p. 47, 48; 1964 Feb. p. 71. Hildebrandt, Alvin F., 1971 Sept. p. 67. Hildemann, William H., 1963 Jan. p. 119. Hilden, Arnold, 1953 Oct. p. 74. Hilding, Anderson C., 1960 Jan. p. 146; 1962 Hilf, Franklin D., 1973 Feb. p. 48. Hill, A. Bradford, 1954 Aug. p. 38; 1962 July p. 41, 44; 1964 Feb. p. 66; 1973 Sept. p. 26; 1977 June p. 107. Hill, A. Lewis, 1967 May p. 103. Hill, A. V., 1953 Jan. p. 70; 1958 Apr. p. 43; Nov. p. 67; 1961 Sept. p. 192; 1965 May p. 88, 89; June p. 79, 82; 1967 Nov. p. 26; 1970 Apr. p. 85; Dec. p. 39; 1972 Mar. p. 88; 1976 June p. 110, 111. Hill, Alan E., 1962 Jan. p. 62; 1963 July p. 42; 1964 Apr. p. 39, 40, 43. Hill, Byron, 1952 Feb. p. 48, 49. Hill, Charles H. Jr., 1968 May p. 105. Hill, David L., 1965 Aug. p. 49, 53. Hill, Edward L., 1963 Mar. p. 114, 116. Hill, Eric R., 1976 June p. 107. Hill, F. F., 1953 Mar. p. 44. Hill, G. W., 1970 Mar. p. 48. Hill, George A., 1950 Sept. p. 24. Hill, Harris E., 1961 Feb. p. 43. Hill, Henry, 1967 Mar. p. 48. Hill, Henry A., 1975 Sept. p. 54; 1976 May p. 95, 96. Hill, J. E., 1949 Apr. p. 26. Hill, John, 1976 July p. 116. Hill, Lee F., 1957 July p. 96. Hill, Lester S., 1966 July p. 44. Hill, Lister, 1949 June p. 14; 1958 Apr. p. 48; 1959 Sept. p. 102; 1971 Apr. p. 23. Hill, Lynn, 1975 Nov. p. 112 Hill, R., 1948 Aug. p. 32, 34; 1951 Sept. p. 52; 1960 Nov. p. 105. Hill, R. D., 1964 Jan. p. 54; 1967 Dec. p. 89; 1975 June p. 57 Hill, Robert, 1965 July p. 81; 1969 Dec. p. 63, 64, 69, 70; 1974 Dec. p. 71; 1976 Feb. p. 55. Hill, Robert J., 1964 Nov. p. 72. Hill, Robert L., 1970 Aug. p. 37, 41. Hill, Robert M., 1965 Jan. p. 50; 1968 Apr. Hill, Robin, 1953 Nov. p. 82; 1958 Aug. p. 82. Hill, Ruth, 1967 Feb. p. 38. Hill, W. C. Osman, 1956 June p. 98. Hill, W. E., 1971 Dec. p. 66. Hillary, Edmund, Sir, 1956 Jan. p. 46; May p. 45; 1961 Oct. p. 68, 76. Hilleboe, Herman E., 1956 Feb. p. 58. Hilleman, Maurice R., 1960 Dec. p. 92; 1961 Nov. p. 86; 1969 Oct. p. 50; 1971 July p. 26; 1974 July p. 42; 1977 Apr. p. 49. Hiller Aircrast Corporation, 1960 Aug. p. 45, 46. Hiller, Kirby, 1965 Nov. p. 44. Hiller, L. A., 1964 July p. 106 Hillier, James, 1957 Jan. p. 97; 1961 Sept. p. 60. Hillier, Philip C., 1975 Aug. p. 59. Hillman, Dean E., 1975 Jan. p. 60, 61, 63, 64. Hillman, Robert S., 1973 Aug. p. 90. Hillman, William, 1973 Mar. p. 83, 84, 88. Hills, J. I., 1971 Aug. p. 46. Hills, Jack, 1977 Oct. p. 51. Hilschmann, Norbert, 1970 Aug. p. 37, 40; 1977 Jan. p. 52. Hilsum, C., 1966 Aug. p. 28, 30. Hiltner, W. A., 1956 Mar. p. 88; 1959 Dec. p. 102; 1963 Jan. p. 73; 1965 June p. 46; 1967 Oct. p. 108; 1970 Dec. p. 27. Hilton, James L., 1959 Mar. p. 69.

Hilton, Robert, 1970 Oct. p. 116. Hilton, W. F., 1953 Oct. p. 36, 41. Himes, Norman E., 1973 July p. 17; 1974 Sept. p. 46. Himmelsbach, C. K., 1965 Feb. p. 80. Himsworth, Harold, 1954 Dec. p. 47. Himwich, Williamina A., 1955 Oct. p. 86. Hindley, Henry, 1971 Feb. p. 109. Hindman, J. V., 1953 Dec. p. 46; 1955 May p. 46; 1956 Apr. p. 57; 1958 Jan. p. 46; 1959 Dec. p. 96; 1964 Jan. p. 36. Hines, Colin O., 1965 Mar. p. 68. Hines, James, 1976 June p. 111. Hines, M. N., 1954 Apr. p. 35. Hines, Marion, 1948 Oct. p. 27. Hines, Marion E., 1959 June p. 123. Hinkle, Lawrence E. Jr., 1955 Jan. p. 48. Hinkle, Maija, 1971 Aug. p. 80. Hinkle, Peter C., 1978 Mar. p. 104, 121-123. Hinks, A. R., 1961 Apr. p. 68. Hinkson, Katharine T., 1956 Feb. p. 36. Hinshelwood, Cyril N., Sir, 1953 Sept. p. 114; 1956 Dec. p. 52; 1964 July p. 105; 1967 Nov. p. 28. Hintenberger, H., 1965 Oct. p. 35. Hinton, Christopher, Sir, 1955 Oct. p. 27, 32, 32, Hinton, H. E., 1970 Aug. p. 84. Hinton, M. A. C., 1967 Jan. p. 79, 84. Hinze, Harry C., 1973 Oct. p. 28. Hipparchus, 1948 Oct. p. 42; 1949 Apr. p. 47; Nov. p. 48; 1950 May p. 51; 1961 Feb. p. 125; 1966 Oct. p. 89, 92; 1970 Mar. p. 38; 1974 Jan. p. 104; 1976 June p. 100. Hippel, Frank von, 1976 Nov. p. 27, 29. Hipple, J. A., 1949 May p. 26. Hippocrates, 1948 May p. 25; 1949 Oct. p. 33, 35; 1950 Mar. p. 42; 1953 Apr. p. 29; 1956 Jan. p. 94; 1957 Mar. p. 107; June p. 62; 1958 June p. 73, 80; 1962 May p. 86; 1963 Oct. p. 27; 1966 Nov. p. 131; 1968 Apr. p. 69; Dec. p. 105; 1969 Jan. p. 21; 1973 Sept. p. 56; 1977 May p. 96; Dec. p. 88. Hippodamos of Miletos, 1966 Dec. p. 99, 101. Hipsley, E. H., 1971 Sept. p. 118. Hirai, T., 1972 Feb. p. 85 Hiraizumi, Yuichiro, 1959 Sept. p. 151. Hiramoto, Y., 1961 Sept. p. 118. Hire, Philippe de la, 1955 Jan. p. 83; 1961 Nov. p. 154; 1964 Jan. p. 104; 1971 Feb. p. 107, 109; Oct. p. 96. Hirota, Jed, 1975 Mar. p. 79. Hirs, C. H. W., 1961 Feb. p. 84-86; Dec. p. 108. Hirsch, A., 1956 Dec. p. 67. Hirsch, James G., 1963 May p. 69; 1967 Nov. p. 65. Hirsch, Jerry, 1973 Dec. p. 24. Hirsch, Jules, 1963 May p. 75; 1971 Oct. p. 16. Hirsch, Martin S., 1973 Jan. p. 31; 1977 Apr. p. 50. Hirsch, Morris, 1966 May p. 118. Hirsch, P. B., 1961 Oct. p. 112, 113; 1967 Sept. p. 96; 1975 Apr. p. 118. Hirsch, Philip F., 1970 Oct. p. 42. Hirschfelder, Joseph O., 1949 Mar. p. 24. Hirschhorn, Kurt. 1967 Nov. p. 69. Hirschkorn, Norbert, 1971 Aug. p. 15, 18, 20; 1972 Aug. p. 104. Hirschhorn, Rochelle, 1967 Nov. p. 69. Hirschmann, Ralph F., 1969 Mar. p. 47. Hirsh, Ira, 1970 Dec. p. 34. Hirshfield, Henry I., 1958 Oct. p. 43; 1959 Sept. Hirshman, Jules, 1963 Nov. p. 69. Hirsky, Alfred E., 1961 Sept. p. 74. Hirst, George K., 1951 May p. 44, 48; 1955 Mar. p. 67; 1977 Dec. p. 90. Hirst, Leslie L., 1951 Jan. p. 28. Hirth, Harold, 1965 May p. 83.

Hirth, Wolf, 1961 Mar. p. 129. His, Wilhelm, 1968 June p. 78, 80, 82, 84. Hisada, Mituhiko, 1964 Oct. p. 82. Hisinger, Wilhelm, 1951 Nov. p. 29. Hiss, Alger, 1950 Mar. p. 29. Hitachi, 1977 May p. 44. Hitachi, Ltd., 1978 Feb. p. 68. Hitchcock, Alfred, 1952 Jan. p. 21. Hitchcock, F. A., 1953 Mar. p. 71. Hitchcock, Griselda, 1961 May p. 53; 1966 July p. 32. Hitchcock, John L., 1967 June p. 33. Hitchcox, Sarah, 1975 Nov. p. 44. Hitchings, George H., 1964 May p. 93. Hitler, Adolf, 1949 Mar. p. 17; Oct. p. 13, 14; Dec. p. 17, 41; 1950 Nov. p. 12; 1954 Feb. p. 44; May p. 48; 1970 Sept. p. 123; 1971 Dec. p. 38. Hitt, Parker, 1966 July p. 42. Hittinger, William C., 1966 Sept. p. 83; 1970 Feb. p. 25; 1975 May p. 34; 1976 Mar. p. 88. Hittorf, Johann W., 1971 May p. 86; 1974 Mar. p. 93. Hittorf, Wilhelm, 1969 Mar. p. 106, 107. Hitzig, E., 1948 Oct. p. 30, 33. Hitzig, Eduard, 1973 July p. 96 Hitzig, Walter H., 1957 July p. 96. Hix, Ivan, 1955 Dec. p. 43. Hjellming, R. M., 1973 Jan. p. 45. Hjorth, Soren, 1961 May p. 116. Hlavaty, Vaclav, 1953 Sept. p. 78. HMW Industries, Inc., 1973 Aug. p. 49. Hnilica, Lubomir S., 1975 Feb. p. 52. Ho, H. C., 1973 Oct. p. 33. Ho, Monto, 1961 May p. 53; 1971 July p. 27. Hoag, Arthur, 1950 Aug. p. 30. Hoagland, Dennis R., 1973 May p. 52. Hoagland, Hudson, 1955 June p. 35; 1963 Mar. p. 102; 1964 Nov. p. 117, 118. Hoagland, Mahlon B., 1958 Mar. p. 124; Aug. p. 31; 1960 Jan. p. 128; 1961 Sept. p. 78. Hoar, T. P., 1956 May p. 36, 37. Hoard, J. L., 1966 July p. 102 Hoatumatua, 1949 Feb. p. 50, 53, 54. Hobart, Michael A., 1977 Aug. p. 63, 66. Hobbes, Thomas, 1951 May p. 60; 1952 Mar. p. 62; 1956 Feb. p. 31; 1960 Sept. p. 82. Hobbs, Nicholas, 1974 Aug. p. 60. Hobhouse, Leonard T., 1963 Oct. p. 116, 121, 122. Hobson, J. P., 1962 Mar. p. 87. Hoch, George E., 1969 Dec. p. 69. Hochberg, Erich, 1972 Dec. p. 99. Hochberg, Julian, 1967 May p. 97; 1968 Sept. p. 212; 1971 Dec. p. 68; 1975 Aug. p. 72, 73. Hochberg, Seymore, 1953 Feb. p. 76. Hochstrasser, Robin M., 1977 Feb. p. 96. Hochwalt, C. A., 1952 Jan. p. 34. Hock, Raymond J., 1948 Dec. p. 23; 1957 Dec. p. 51; 1958 Mar. p. 104; 1960 Feb. p. 79; 1970 Feb. p. 53. Hockett, Charles F., 1960 Sept. p. 73. Hocquenghem, A., 1962 Feb. p. 102, 104. Hodge, Alan J., 1957 Sept. p. 209, 211; 1958 Nov. p. 71; 1961 May p. 122; Sept. p. 68; 1965 June p. 61; 1970 Oct. p. 46. Hodge, Paul W., 1964 Jan. p. 40. Hodge, Russ, 1976 June p. 109. Hodges, David A., 1977 Sept. p. 94, 130, 169. Hodges, Joseph L. Jr., 1977 May p. 122. Hodges, Thomas K., 1973 May p. 54. Hodgins, Eric, 1954 Feb. p. 42. Hodgkin, Alan L., 1951 Apr. p. 67; 1952 Nov. p. 58, 60, 61, 63; 1958 Apr. p. 43; Dec. p. 85, 87, 88, 89; 1960 Oct. p. 119; 1961 Sept. p. 214; 1963 Dec. p. 64; 1964 Sept. p. 150-151; 1965 Jan. p. 60; 1966 Mar. p. 74, 78, 79, 81, 82;

Heron, Woodburn, 1957 Jan. p. 52; 1961 June p. 72; 1962 Aug. p. 70. Herostratus, 1949 June p. 54; 1952 Apr. p. 68. Herr, Kenneth C., 1966 Apr. p. 36. Herrell, Wallace E., 1950 July p. 29. Herrera, Francisco C., 1962 Aug. p. 100. Herreshoff, Halsey C., 1966 Aug. p. 61. Herrick, James B., 1951 Aug. p. 56; 1956 Aug. p. 87; 1975 Apr. p. 45, Herrick, Judson, 1948 Oct. p. 27. Herrick, Samual, 1965 Apr. p. 106. Herriman, Alan G., 1970 May p. 27. Herring, Alika, 1968 Feb. p. 74. Herring, W. Conyers, 1955 July p. 85; 1960 July p. 65; 1969 Mar. p. 33; 1971 Nov. p. 29. Herrington, H. B., 1970 May p. 44. Herriott, Donald R., 1961 June p. 54, 58; 1968 Sept. p. 100, 120, 52, 91. Herriott, Roger M., 1948 Dec. p. 32; 1953 May p. 37; 1956 Oct. p. 82; 1961 Oct. p. 82, 84. Herrling, Paul L., 1976 July p. 113. Herrmann, G. F., 1959 June p. 124. Herrmann, Heinz, 1957 Nov. p. 88. Herron, Ellen M., 1977 Aug. p. 68. Hers, H. G., 1963 May p. 72. Hersch, Paul, 1965 May p. 52 Herschbach, Dudley R., 1964 July p. 101, 103. Hersche, William, 1968 Sept. p. 72. Herschel, Caroline, 1950 Feb. p. 33, Herschel, John, Sir, 1948 Nov. p. 28, 38; 1950 Feb. p. 33; 1952 Apr. p. 66, 67; Aug. p. 36; 1953 May p. 67; Oct. p. 43; 1956 Apr. p. 53; Sept. p. 102; 1965 Aug. p. 20. Herschel, William, Sir, 1950 Feb. p. 32, 33; 1952 Apr. p. 66; 1953 Oct. p. 42, 43, 48; 1954 June p. 79; July p. 30, 33; Oct. p. 70; 1956 Sept. p. 102; 1957 May p. 46; 1963 June p. 94, 95, 97; 1965 Apr. p. 114; May p. 34, 35; Aug. p. 20, 23; 1967 Feb. p. 97; 1968 Aug. p. 51; 1970 June p. 26; 1973 Mar. p. 51; 1974 Oct. p. 34; 1975 Jan. p. 24; Sept. p. 131; 1977 Feb. p. 30; July p. 128; Oct. p. 43. Herscovics, Annette, 1969 Feb. p. 107. Hersey, John, 1949 Mar. p. 15; 1951 Aug. p. 27. Hersh, Reuben, 1969 Mar. p. 71, 72; 1971 Aug. p. 93; 1973 Mar. p. 103. Hershey, Alfred D., 1948 Nov. p. 47, 51; 1951 Oct. p. 23; 1953 May p. 37, 39; 1954 Dec. p. 64, 65; 1956 Oct. p. 88; 1961 June p. 97; 1962 Jan. p. 73; 1966 Jan. p. 38; 1969 Dec. p. 48; 1972 Dec. p. 86. Hershey, John, 1955 Nov. p. 44. Herskovits, Melville J., 1954 Oct. p. 81, 82. Hertel, E., 1951 May p. 23. Herter, Christian A., 1949 June p. 14. Hertig, Arthur T., 1950 July p. 28. Hertting, Georg, 1974 June p. 60. Hertwig, Oskar, 1968 June p. 84, 86; July p. 55. Hertwig, Richard von, 1974 Jan. p. 56. Hertz, C. H., 1962 Oct. p. 117. Hertz, Gustav, 1949 Nov. p. 27; 1967 Nov. p. 26. Hertz, Hans G., 1975 Jan. p. 29. Hertz, Heinrich, 1950 Apr. p. 14; 1952 Aug. p. 45-47, 49, 51; 1953 Oct. p. 43; Nov. p. 96; 1954 Apr. p. 64; July p. 73, 76, 77; 1955 June p. 69; 1957 Dec. p. 98, 100, 102, 104, 106; 1958 Mar. p. 102, 96; Sept. p. 66, 81; 1960 July p. 48; 1964 Sept. p. 129, 132, 44; 1965 Mar. p. 93; 1969 Mar. p. 104; 1971 May p. 86, 87; July p. 94; 1974 Mar. p. 93, 95. Hertz, Mathilde, 1955 Aug. p. 58. Hertz, Roy, 1958 Feb. p. 46. Hertzberg, E., 1978 Mar. p. 105. Hertzberg, Richard, 1967 Feb. p. 92. Hertzman, M., 1959 Feb. p. 51. Hertzsprung, Ejnar, 1950 Feb. p. 33; Sept. p. 24,

25; 1959 July p. 51; 1961 June p. 111; 1974 Jan. p. 70. Herxheimer, Herbert, 1963 Nov. p. 106, 108. Hery, Joseph. 1954 July p. 73-77. Hery, Thierry de, 1956 Jan. p. 94. Herz, Albert, 1977 Mar. p. 52, 53. Herzberg, Gerhard, 1960 May p. 137; 1965 May p. 70; 1971 Dec. p. 38; 1972 Jan. p. 80. Herzberg, Mendel, 1953 Sept. p. 84. Herzenberg, Leonard A., 1973 July p. 59; 1976 May p. 34. Herzenberg, Leonore A., 1976 May p. 34. Herzfeld, Charles M., 1957 Mar. p. 91; 1960 May p. 137; 1966 Oct. p. 70; 1968 Mar. p. 31. Herzog, Bertram, 1966 Sept. p. 188. Herzog, G., 1949 Nov. p. 28. Herzog, R. O., 1954 July p. 51, 55. Hesiod, 1949 June p. 41; 1951 Nov. p. 54; Dec. p. 64; 1968 Oct. p. 113. Heslin, A. Sandra, 1962 July p. 44. Heslop-Harrison, Yolande, 1978 Feb. p. 104. Hess, Albert, 1974 Mar. p. 94. Hess, Alfred S., 1970 Dec. p. 80, 82. Hess, Benno, 1976 June p. 43. Hess, Bill, 1975 Jan. p. 85. Hess, C., 1959 May p. 87. Hess, Charles, 1953 Aug. p. 78. Hess, Conrad, 1966 July p. 85. Hess, Eckhard H., 1959 June p. 73; 1960 Sept. p. 146; 1964 Nov. p. 53; 1966 Aug. p. 85; 1968 Aug. p. 94; 1975 Nov. p. 110. Hess, Felix, 1968 Nov. p. 124. Hess, G. H., 1958 Mar. p. 96. Hess, Harry H., 1959 Apr. p. 41; 1961 Dec. p. 58, 60; 1963 Apr. p. 92; 1967 Feb. p. 54; 1968 Apr. p. 56; Dec. p. 60, 61; 1969 Nov. p. 106, 108, 112, 113; 1971 Nov. p. 58; 1972 May p. 56; 1973 May p. 63. Hess, Margaret, 1956 Nov. p. 132. Hess, Seymour L., 1953 May p. 70; 1976 Mar. p. 50, 51. Hess, Sidney W., 1964 Mar. p. 57; 1965 Nov. p. 26, 27. Hess, Sol, 1969 May p. 65. Hess, Victor F., 1949 Mar. p. 29, 30; Dec. p. 15, 17; 1950 Apr. p. 44; Sept. p. 31; 1951 May p. 27; 1953 Apr. p. 33; Sept. p. 64; 1964 Nov. p. 38; 1967 Nov. p. 25, 27. Hess, W. M., 1973 May p. 35. Hess, W. N., 1963 May p. 94. Hess, Walter R., 1949 Dec. p. 11, 17; 1955 May p. 78; 1956 Oct. p. 106, 107, 114; 1962 Mar. p. 51; 1964 June p. 60; 1967 Feb. p. 67; Nov. p. 27. Hess, Wilmot, 1970 Aug. p. 19. Hessenberg, Gerhard, 1950 Sept. p. 41. Hessler, Robert R., 1977 June p. 49. Hessler, Victor P., 1962 Mar. p. 135; 1964 Apr. p. 70. Hester, Harriet H., 1951 Jan. p. 27. Hester, Jim J., 1963 Feb. p. 89. Hestrin, Shlomo, 1957 Sept. p. 168. Hetzler, Charles W., 1968 Aug. p. 51. Heubner, Otto, 1965 July p. 52 Heuer, George, 1950 Jan. p. 15. Heuser, John E., 1975 Oct. p. 36; 1977 Feb. p. 106, 107. Heusser, H., 1963 July p. 101, 103. Heuvel, Edward P. J. van den, 1975 Mar. p. 24, 31, 33; Dec. p. 39; 1976 Oct. p. 78; 1977 Oct. p. 49. Hevelius, Johannes, 1954 Dec. p. 97; 1977 May p. 81, 83-85. Hevesi, J., 1976 Apr. p. 80, 81, 82. Hevesy, Georg von, 1963 Aug. p. 104; 1967 Apr. Hevesy, George de, 1949 Feb. p. 31, 32; 1950

Sept. p. 68; 1951 Dec. p. 24, 25; 1955 Oct. p. 33; 1959 Jan. p. 62; 1967 Nov. p. 27. Hevesy, Wilhelm von, 1958 June p. 62. Heveszy, Guillaume de, 1949 Feb. p. 54. Hewes, Gordon W., 1957 Feb. p. 123; 1967 Apr. p. 62; 1978 Apr. p. 108. Hewish, Anthony, 1964 Nov. p. 58; 1968 Apr. p. 42; Dec. p. 50; 1969 Jan. p. 46; 1971 Jan. p. 48; 1974 Dec. p. 56. Hewitt, H. B., 1960 Apr. p. 150. Hewlett, Richard G., 1975 Oct. p. 109. Hewlett-Packard, 1973 June p. 68: 1977 Sept. p. 184. Hev. J. S., 1955 June p. 41; 1962 Mar. p. 42. Heybey, O. W., 1967 Aug. p. 85. Heyerdahl, Thor, 1956 Jan. p. 76; Aug. p. 59; 1958 June p. 68; 1975 June p. 92, 93. Heymann, Dieter, 1965 Oct. p. 35, 36. Heymann, Hans, 1955 Jan. p. 60. Heymans, C. J. F., 1967 Nov. p. 27. Heyrovsky, Jaroslav, 1959 Dec. p. 79; 1967 Nov. p. 28. Heytesbury, William, 1973 May p. 85. Hezekiah, 1970 Aug. p. 97. Hiatt, H., 1961 July p. 66. Hibben, Frank, 1953 Apr. p. 54; 1966 Apr. p. 51. Hibino, Akemi, 1971 Nov. p. 22, 31. Hickenlooper, Bourke B., 1949 Feb. p. 19; July p. 26; Aug. p. 25; Sept. p. 27; Dec. p. 27; 1950 Aug. p. 28; 1953 May p. 53; June p. 44; 1954 May p. 50. Hickernell, Donald C., 1973 May p. 37. Hicklin, Martin D., 1978 Feb. p. 84. Hickman, Henry, 1957 Jan. p. 72. Hickman, Martha, 1977 Mar. p. 100. Hicks, John R., 1972 Dec. p. 41. Hicks, John W., 1971 Mar. p. 31. Hicks, Robert A., 1975 Nov. p. 112. Hicks, Sue K., 1969 Feb. p. 18, 19. Hidalgo, 1966 Oct. p. 25. Hide, Raymond, 1973 Mar. p. 30; 1976 Mar. p. 55. Hiesey, W. M., 1965 Dec. p. 77. Hiestand, Dale L., 1976 Dec. p. 25, 26; 1977 Nov. p. 48. Higa, A., 1975 July p. 28. Higashi, Ototaka, 1967 Jan. p. 115. Higashi-Fujime, Sugie, 1975 Nov. p. 44. Higashino, Shoji, 1970 May p. 86. Higgins, Elmer, 1967 Mar. p. 31. Higgins, G. H., 1956 Dec. p. 67. Higgins, Joseph J., 1967 Oct. p. 50. Higgs, E. S., 1968 Nov. p. 101. Higgs, Peter, 1974 July p. 56; 1978 Feb. p. 136. High Voltage Engineering Corporation, 1964 Mar. p. 83; 1970 Aug. p. 25, 26, 28, 33. Higham, Charles, 1972 Apr. p. 34. Highberger, John H., 1957 Sept. p. 211; 1961 May p. 122. Hight, Sylvester, 1954 Sept. p. 122; 1956 Apr. p. 51. Higinbotham, W. A., 1948 Nov. p. 24; 1949 July p. 27. Higonnet, René A., 1949 Nov. p. 29. Hilberry, Norman, 1958 Aug. p. 52. Hilbert, David, 1950 Sept. p. 42; 1953 Feb. p. 34; 1956 June p. 74-76, 80, 84, 86; 1958 May p. 69; Sept. p. 66, 69, 71; 1964 Sept. p. 44, 45, 47, 54, 95; 1965 Nov. p. 103; 1966 May p. 112; 1967 Dec. p. 105, 111, 116; 1970 Sept. p. 86; 1971 Aug. p. 97; 1973 Nov. p. 84, 85, 87, 88, 90, 91; 1975 May p. 51. Hild, Walther, 1957 Mar. p. 84. Hildebrand, Joel H., 1951 Oct. p. 33; 1955 Feb. p. 52; 1959 Oct. p. 120; 1960 Aug. p. 127; 1965 Jan. p. 45.

Index to Proper Names Hsu

Hooft, Gerhard 't, 1972 Nov p 50, 1974 July p 56, 57, 1975 Oct p 47; 1977 Mar p 64, 1978 Feb p 132, 141 Hooke, Robert, 1950 Jan p 24, May p 20, 1951 July p 38, Dec p 66, 67, 1954 Jan p 58, Sept p 60, Dec p 94-98, 1955 July p 69, Dec p 76, 78, 1956 May p 120, 128, June p 120, 1957 Jan p 78, 1958 Sept p 162, 1959 Dec p 122, 1960 Oct p 164, 1961 Sept p 52, 1962 Oct p 127, 1964 Mar p 101, 107, 1967 Sept p 75, 90, Aug p 98, 99, 100, 101, 1968 Feb p 76, 78, 1969 Jan p 131, 1970 May p 119, Oct p 114, 1971 Feb p 105, 1973 June p 43, 1975 Sept p 25, 1978 Jan Hooker, Joseph, 1956 Feb p 66, 67, 1959 Feb p 70, 74, 75, 81, 84, Aug p 98, 102, 103, 106 Hooker, Joseph D, 1978 Feb p 108 Hooley, Terah, 1973 Mar p 87 Hooper, W David, 1976 Sept p 197, 34 Hooton, Earnest A, 1951 Dec p 40 Hoover, Edgar M, 1974 Sept p 35 Hoover, Herbert, 1948 Oct p 24, 1949 May p 26, 1951 Feb p 46, 1953 Aug p 40, 1960 Feb p 43, 1971 Apr p 17 Hoover, J Edgar, 1949 Feb p 16, 1955 Feb p 37 Hoover, Lou H, 1951 Feb p 46 Hope, A B, 1962 Oct p 107 Hopewell, M C, 1964 Dec p 90 Hopfield, John J, 1964 Apr p 46 Hopital, Marquis de l', 1972 June p 80, 81, 86 Hopkins, B D, 1973 Feb p 89 Hopkins, D E, 1960 Oct p 56 Hopkins, David M, 1954 June p 83, 1962 Jan p 112, 1968 June p 32 Hopkins, Frederick G, Sir, 1951 Oct p 57, 1964 Nov p 64, 1967 Nov p 27, 1970 Dec Hopkins, George R, 1952 Feb p 16 Hopkins, Gerard M, 1960 May p 119 Hopkins, Harold H, 1968 Sept p 102 Hopkins, Harry L, 1950 Jan p 27 Hopkins, Nancy, 1970 June p 40 Hopkins, Samuel, 1967 June p 20 Hopkins, William, 1955 June p 60, 64 Hopkinson, Edward, 1961 May p 116 Hopkinson, John, 1961 May p 116 Hopley, Russell J, 1950 Jan p 26 Hopper, V D, 1969 Nov p 57 Hoppes, Dale D, 1965 Dec p 28 Hoppe Seyler, Felix, 1953 Feb p 50, 51, 1968 June p 78, 79 Hopping Alvin, 1962 Nov p 89 Hoppius, C E., 1968 Oct p 116, 118 Hopwood, A T, 1964 July p 61 Horace, 1948 June p 43, 1972 Sept p 85 Hor-Aha, Pharaoh, 1957 July p 107, 109 Hore Belisha, Lord, 1954 May p 47 Horecker, Bernard L. 1951 Oct p 33 Horiguchi, Masaaki, 1969 June p 58 Horiuchi, Juro, 1971 Dec p 54 Horkheimer, Max, 1948 Oct p 25 Horman, H., 1963 Apr p 107, 114 Horn, Daniel, 1954 Aug p 38, 1962 July p 41, 44, 46, 1964 Feb p 66 Horn, F Hubbard, 1961 Oct p 110 Hern, Henry S, 1973 June p 80, 1975 May Horn Michael H., 1975 June p 90 Horne, R. W., 1961 June p. 99, 1962 Jan p. 71, 1963 Oct p 48, 1966 Dec p 34 Herrell James, 1965 May p 79 Hetrer, Matina, 1974 Sept p 145 Heiner, Terence L. 1963 Apr p 84 Heiney, Karen, 1950 Mar p 43, 1958 May

Hornig, Donald F, 1969 Aug p 18, 1978 Feb p 76 Hornykiewicz, Oleh, 1974 June p 65, 1977 Aug p 112 Horowitz, Norman H, 1951 Oct p 23, 25, 1956 June p 41, Nov p 53, 1968 May p 112, 1970 May p 27, 1977 Nov p 52 Horowitz, Paul, 1971 Jan p 51, 1974 Feb p 44 Horrer, Paul, 1959 Aug p 79 Horridge, G Adrian, 1977 July p 105 Horngan, Leo, 1951 Mar p 29 Horsburgh, G D L, 1967 Sept p 234 Horsemen, Dana L, 1973 June p 40 Horsfall, Frank L, 1951 Dec p 47 Horsfall, William R, 1968 Apr p 116 Horsfield, Keith, 1975 July p 96 Horsley, David T, 1975 Aug p 52, 58 Horst, Amos L, 1953 June p 54 Horstadus, Sven, 1958 Dec p 37 Horstman, Lawrence, 1968 Feb p 35 Horstman, V G, 1966 June p 97 Horstmann, Dorothy M, 1952 June p 32, 1953 July p 28, 1965 July p 93 Horta-Barbos, Luiz, 1974 Feb p 35 Horton, B M, 1964 Dec p 81 Horton, E W, 1962 Aug p 114 Horton, John T, 1963 Mar p 118 Horvath, Beni, 1958 Apr p 44 Horvath, C, 1954 Dec p 44 Horwitz, Nahmin, 1972 Nov p 105 Horwitz, William A, 1965 Aug p 46 Hose, Charles, 1950 Sept p 89 Hoshing, Eric, 1961 Oct p 78 Hoskins, Meredith, 1971 July p 26 Hoskins, Roy G, 1949 July p 44 Hoskins, W G, 1976 Oct p 118 Hoskins, W M, 1952 Oct p 25 Hosler, Charles L Jr, 1968 Dec p 79 Hosler, William R, 1964 June p 56 Hosoi, T, 1978 June p 140 Hosokawa, K, 1969 Oct p 31 Hossli, Walter, 1969 Apr p 101 Hostetler, John, 1967 July p 108 Hostingue, Charles d', 1972 May p 103, 110 Hotchin, John E, 1973 Jan p 28, 1974 Feb p 36 Hotchkiss, Rollin D, 1949 Aug p 28, 1958 Nov p 40, 1969 Jan p 38 Hotchkiss, W O, 1948 Nov p 9 Hotta, Yoshiki, 1973 Dec p 28, 31-33, 36, 37 Hottel, Hoyt C, 1950 Aug p 21, 1951 Feb p 63, 1956 July p 100 Hottle, George A, 1952 Oct p 34 Houck, James R, 1975 Sept p 110 Houck, T E, 1956 Sept p 106 Hougen, J T, 1968 Sept p 124 Hough, Charles, 1971 Nov p 22 Hough, G W, 1968 Feb p 78 Hough, Richard R 1962 Jan p 60 Houghton, Henry G, 1962 Sept p 93, 1964 Mar p 67, 69 Houghton, R A, 1978 Jan p 39 Hounsfield, G N, 1975 Oct p 60 Houpt, T R., 1959 Dec p 140 House, Robert, 1960 Mar p 150 Houses, G Eastman, 1956 Feb p 63, 64 Housman, A E. 1959 June p 90 Houssay Bernardo A. 1950 Oct p 20, 1958 Jan p 46, 1967 Nov p 27, 1970 Dec p 39, 1971 Dec p 38, 1972 July p 80 Houston, Edwin J., 1969 Mar p 104 Houston, Paul L. 1977 Feb p 95 Houstoun, R A, 1955 Aug p 66, 67 Houtermanns, F. G. 1950 Jan p. 43 Houtman Jan 1967 Apr p 79 82 Hovanitz, William, 1959 Nov p 151, 1967 Nov p 112

Hove, Leon C P van, 1975 Dec p 65 Hover, Kathleen van, 1972 Mar p 80 Hovland, Carl I, 1958 Jan p 78 Howard, Alma, 1974 Jan p 57 Howard, Ebenezer, 1954 Apr p 61 Howard, Edward C, 1963 Oct p 65 Howard, H C, 1955 July p 62 Howard, H Seymour, 1974 Feb p 99 Howard, H Taylor, 1969 Mar p 82 Howard, Nigel, 1967 July p 51, 54, 56 Howard, P R, 1964 Feb p 71 Howard, Richard J, 1973 Jan p 31 Howard, Robert, 1966 Nov p 60, 1968 Jan p 107, 109, 111 Howard-Flanders, Paul, 1967 Feb p 38, 39, 41, Howard-Jones, Norman, 1971 Jan p 96 Howarter, Frederick, 1966 June p 110 Howatson, Allan F, 1964 Dec p 114, 1970 June p 38 Howden, Norman M, 1951 Feb p 30 Howe, Bruce, 1970 Mar p 54 Howe, C D, 1975 Oct p 22 Howe, Chester W, 1955 Feb p 56, 1959 Jan p 43 Howe, Everett D, 1956 July p 104 Howe, George F, 1971 Jan p 46 Howe, Howard A, 1952 June p 33, Dec p 28 Howe, J P, 1955 Oct p 35 Howe, John A, 1964 Apr p 46 Howe, M R, 1973 Feb p 75 Howe, Mark de Wolfe, 1954 Feb p 42 Howell, A Brazier, 1960 May p 148 Howell, F Clark, 1961 Oct p 119, 1969 June p 57, 1970 June p 52 Howell, John A, 1974 Feb p 44 Howell, Nancy, 1974 Sept p 48 Howell, Stacey F, 1977 June p 108, 111 Howell, Stephen B, 1978 May p 92 Howell, T F, 1967 June p 32 Howell, W H, 1961 July p 58, 1962 Mar p 60 Howells, William W, 1967 Mar p 52, 1969 Apr p 82, Sept p 102 Howes, Paul G, 1948 June p 18 Howes, V R, 1974 Aug p 67 Howitt, Beatrice, 1949 Sept p 19 Howland, John, 1972 Oct p 72 Howland, Joseph W, 1949 Dec p 27 Howry, D H, 1978 May p 98 Hoy, Ronald R, 1973 Dec p 37, 1974 Aug Hoyer, Bill H, 1970 Apr p 26, 31 Hoyle, Fred, 1951 July p 26, Dec p 21, 1953 Mar p 34, 36, 1954 Mar p 58, 1956 Aug p 114, Sept p 150, 171, 81, 88, 89, 1959 July p 80, 1960 Apr p 85, July p 62, 63, Nov p 184, 1961 Feb p 51, June p 115, Dec p 76, 1962 Apr p 63, 1963 Mar p 78, Sept p 86, Dec p 61-62, 1964 June p 43, 45, Nov p 47, 1966 Aug p 35, Dec p 49, 40, 51, 1969 Jan p 28, Feb p 58, 1973 Feb p 103, 1974 Jan p 74, May p 108, 115, 118, Oct p 56, 1975 Aug p 47, Dec p 68, 1976 Feb p 45, 50, Dec p 95 Hoyle, Graham, 1968 May p 88 90, 1970 Apr p 85 Hoyle, L., 1963 Jan p 55 Hoyi, H C, 1965 July p 68 HRB-Singer, Inc., 1970 May p. 45 Hrdlicka, Ales, 1948 July p 18, 1949 Nov p 21, 1958 Nov p 117, 1967 Nov p 44 Hren, J J, 1967 Sept p 92 Hrozny, Bedrich, 1963 Feb p 97, 98 Hruschka, August A., 1965 Oct. p. 38 Hsu, F S L, 1962 June p 62, 63 Hsu, Kenneth J, 1978 May p 53 Hsu, Leslie, 1975 July p 28

1967 Aug p 71, Nov p 28, 1970 May p 82, 1974 June p 88 Hodgkin, Dorothy C, 1964 Nov p 64, Dec p 60, 1967 Nov p 28, 1968 July p 68-70, 1969 Oct p 47, 1973 Oct p 61 Hodgkin, T, 1951 Oct p 57 Hodgson, Edward S, 1961 May p 140 Hodgson, Gordon W, 1972 Oct p 86 Hodgson, Thomas A, 1974 Jan p 25 Hoeft, R G, 1976 Jan p 62 Hoering, Thomas C, 1967 Jan p 41, 1971 May Hoerlin, Herman, 1962 Feb p 73 Hoerner, S von, 1952 June p 28 Hoerni, Jean, 1977 Sept p 65 Hoerr, Normand L, 1957 July p 133 Hoey, Clyde R, 1949 July p 26 Hofer, A W, 1953 Mar p 40 Hoff, Jacobus H van 't, 1949 Dec p 13, 15, 1950 Sept p 32, 1954 Mar p 72, 1956 Nov p 81, 1957 Sept p 91, 1967 June p 64-67, 72, Nov p 26, 1971 Feb p 89, 1972 June p 71, 73, 76 Hoffer, Barry, 1977 Aug p 115 Hoffer, Gary, 1970 Dec p 96 Hoffer Plastics Corporation, 1962 Oct p 55 Hoff-Jorgensen, E, 1953 Feb p 50 Hoffleit, E Dorrit, 1952 July p 49, 1963 July p 67, Dec p 60, 1966 Dec p 45, 46, 1969 Jan p 32 Hoffman, A S, 1971 June p 51 Hoffman, Anna R, 1966 Mar p 55 Hoffman, B M, 1967 July p 42 Hoffman, Fred, 1969 Aug p 27 Hoffman, George A, 1966 Oct p 34, Nov p 66, Dec p 65 Hoffman, J H, 1960 Nov p 174 Hoffman, Jeffrey, 1977 Oct p 54 Hoffman, Joseph F, 1957 Jan p 97 Hoffman, K. P., 1972 Dec p. 78 Hoffman, Kenneth C, 1969 July p 28, 29 Hoffman, Lois W, 1974 Sept p 145 Hoffman, Otto L, 1953 July p 33 Hoffman, Paul, 1955 Dec p 52, 1976 Aug p 57 Hoffman, R A, 1963 May p 96 Hoffmann, Banesh, 1964 Aug p 38, 1967 Jan p 106, 1975 Aug p 49 Hoffmann, Dietrich, 1962 July p 51 Hoffmann, Frederic de, 1955 July p 50 Hoffmann, H K H, 1968 July p 55 Hoffmann, Heinrich, 1970 Apr p 94, 95 Hoffmann, Klaus, 1974 Dec p 98 Hoffmann, Roald, 1972 Aug p 40 Hoffmann, William F, 1973 Apr p 40, 1974 Aprıl p 71 Hoffmann-Berling, Hartmut, 1961 Feb p 110, Sept p 198, 1974 Oct p 46 Hoffmann La Roche, Inc, 1952 Apr p 39, 1958 Apr p 52 Hoffmeister, Cuno, 1967 Aug p 35, 1977 Aug p 33 Hofmann, Albert W, 1955 June p 34, 1957 Feb p 111, 114, 117, Dec p 55 Hofmann, Cecilia, 1977 Dec p 145 Hofmann, Felix, 1963 Nov p 96, 99 Hofmann, Klaus H, 1961 Jan p 83, July p 102, 1963 July p 51, Oct p 57 Hofmeister, Franz, 1950 June p 37 Hofstadter, Robert, 1953 Oct p 50, 1956 Feb p 52, 1958 Feb p 50, 1961 June p 80, Nov p 54, 80, Dec p 72, 1963 Jan p 44, 1966 Nov p 65, 1967 Nov p 25, 28 Hofstein, Stephen R, 1973 Aug p 50 Hogarth, William, 1972 Feb p 92, 99, Sept Hogben, John H, 1976 Mar p 81, 83

Hogeboom, George H, 1957 July p 133 Hogg, A R, 1964 Jan p 35 Hogg, D C, 1961 Oct p 95, 96 Hogg, Helen S, 1975 June p 72 Hogner, Dorothy C, 1949 Dec p 54, 55 Hogner, Nils, 1949 Dec p 54, 55 Hogness, David, 1967 Feb p 42, May p 87 Hogness, Thorfin R, 1948 Oct p 24 Hoh, F C, 1967 July p 81, 83 Hohenberg, Pierre C, 1973 May p 30 Hokanson, J E, 1964 Feb p 39 Hokfelt, Bernt, 1955 May p 80 Hokfelt, Tomas, 1977 Aug p 115 Hokusai, 1954 Aug p 60 Holaday, William M , 1973 Nov p 20 Holbein, Hans, 1952 July p 26, 1964 Feb p 117, 1973 Sept p 77 Holbrook, Stewart, 1948 June p 52 Holden, A V, 1968 Mar p 53 Holden, John C, 1970 Oct p 30, 1972 Mar p 35, Nov p 64, 66 Holdstock, D J, 1962 Aug p 117 Holgate, John A, 1962 Aug p 117, 1963 Nov p 106 Holifield, Chet, 1954 Sept p 72, Nov p 31, 35, 1957 Aug p 57, 1961 Aug p 60, 1966 Jan p 47, 1972 Nov p 22, 1974 Jan p 29 Holik, Andrew S, 1970 Dec p 93 Hollaender, Alexander, 1951 May p 22, Oct p 25, 1955 Oct p 33, 1959 Sept p 180, 78, 1960 Jan p 107 Holland, George P, 1965 Dec p 51 Holland, Heinrich D, 1970 Nov p 110 Holland, Ian B, 1965 Nov p 50 Holland, James, 1961 Nov p 90, 95, 99, 1968 July p 50 Holland, T H, 1964 Nov p 102 Holland, V F, 1963 May p 58 Hollbrook, John E, 1957 Jan p 116 Holldobler, Berthold K, 1971 Mar p 86, 1975 June p 36, 1977 Dec p 146, 147 Holler, Nicholas R, 1968 May p 126 Hollerith, Herman, 1949 Apr p 32, 1969 May p 64 Holley, Robert W, 1963 Jan p 61, 1965 May p 48, 1966 Feb p 34, Oct p 60, 1968 Dec p 48, 1969 Mar p 50, 1970 July p 50, 1978 Jan p 56 Holliday, Leslie, 1970 May p 116 Hollinger, F Blaine, 1977 July p 44 Hollingshead, August B, 1954 Mar p 41, 1962 Aug p 72 Hollister, Dean S C, 1951 Sept p 67 Hollister, Leo E, 1955 Feb p 52 Holloway, Ralph L, 1976 Jan p 96 Hollowell, Joseph G, 1972 July p 78 Holly, Robert W, 1963 Mar p 86 Holm, Johannes, 1948 June p 24 Holm, Lennart, 1957 Aug p 58 Holman, R T, 1967 Jan p 43 Holman, Sidney P, 1950 June p 18 Holmberg, Allan R, 1954 Aug p 29, 1957 Jan p 38 Holmberg, C G, 1968 May p 108 Holmberg, Enk B, 1954 July p 35, 1970 June p 35, 1973 Dec p 48 Holmberg, Scott, 1977 May p 44 Holmes, Arthur, 1949 Aug p 51, 1953 Mar p 74, 1956 July p 50, 1963 Apr p 92, 1968 Apr p 54, 1969 Sept p 75, Nov p 105 108 113, 114, 1975 Feb p 95, 97 Holmes, Enc, 1954 Dec p 49 Holmes, Frederick H, 1961 May p 115 Holmes, Gordon, 1973 Mar p 76 Holmes, Kenneth C, 1965 Dec p 27, 1969 Aug p 94, 1975 Nov p 37 Holmes, Leighton E, 1900 Nov p 49

Holmes, Margaret C, 1962 Nov p 57 Holmes, Oliver W, 1948 June p 43, 1973 Sept Holmes, Richard T, 1978 Mar p 93 Holmes, W H, 1964 Apr p 107 Holmgren, Alf G M, 1969 Feb p 71 Holmgren, G, 1978 Apr p 65 Holmgren, Harry D, 1969 July p 32 Holmgren, Nils, 1965 July p 52, 55 Holmquist, Nelson D, 1968 Aug p 37 Holonyak, Nick, 1963 July p 35, 40 Holotron Corporation, 1969 Oct p 43 Holst, Erich von, 1957 Oct p 52, 1965 Nov Holst, Gilles, 1965 Apr p 119 Holt, Anatol, 1973 Apr p 44 Holt, David L, 1969 Mar p 35 Holt, Helen K, 1973 Dec p 82 Holt, J R, 1965 Dec p 31 Holt, Jane B, 1950 Mar p 55 Holt, Sidney J, 1966 Aug p 17, 1969 Sept p 121, 156, 167, 64 Holter, Heinz, 1961 Apr p 122, Sept p 167, Nov p 133, 1962 Apr p 65, 1965 Oct p 78 Holtfreter, Johannes, 1953 May p 76, Sept p 109, 1957 Nov p 86, 1958 Dec p 40, 1959 May p 132, 1978 June p 109 Holton, Gerald, 1951 Apr p 33, 1972 Sept Holton, William C, 1977 Sept p 82 Holtz, R Barry, 1975 Mar p 80 Holtzer, Alfred M, 1975 Nov p 38 Holtzer, Howard, 1962 Apr p 77 Holtzoff, Alexander Jr, 1974 June p 20 Holway, Alfred H, 1962 July p 122 Holwill, Michael, 1974 Oct p 46 Holzel, Aaron, 1972 Oct p 72 Holzer, Helmut, 1973 Oct p 62 Holzer, R E, 1953 Apr p 37 Homann, H, 1954 Dec p 84 Homans, J, 1950 Oct p 19 Homer, 1951 Mar p 49, 1954 Jan p 46, May p 70, 71, 74, Nov p 99, Dec p 72, 73, 76, 78, 1958 May p 111, 115, Aug p 92, 1963 Dec p 109, 1965 Feb p 102, 1968 Aug p 79 82, Oct p 113, 1972 Oct p 41, 1973 Oct p 35, 1975 Sept p 54 Homestake Mining Company, 1969 July p 29, Homma, Kazutaka, 1972 Mar p 27, 28 Hommes, Frits A, 1962 Apr p 77 Homskaya, E D, 1969 Jan p 79 Hon, Edward H G, 1974 Mar p 89 Honaman, R Karl, 1955 Mar p 51 Honda, K., 1967 Sept p 234 Honda, Yutaka, 1972 July p 81 Hondius, 1952 July p 22 Honeywell Incorporated, 1970 Oct p 107 Hong, Suk K1, 1969 Aug p 106 Hong, Sung bong, 1969 Jan p 27 Hongarian Medical University of Budapest, 1963 Apr p 106 Hong-Yee, Chiu, 1962 Aug p 97, 98 Honig, J M, 1964 June p 72 79, 1965 Apr p 78 Honig, W K, 1958 Jan p 82 Honnecourt, Villard de, 1958 Mar p 76 Honnold and Rex, 1968 Sept p 194 Honorius, Emperor, 1974 May p 34 Hood, H P, 1961 Jan p 98 Hood, Lee, 1970 Aug p 40 Hood Leroy E, 1977 Oct p 103 Hood, M S F, 1967 Aug p 40 Hood, Thomas, 1976 Apr p 104, 106, 109, 112 Hood, William R, 1956 Nov p 54 Hooff, J A R M van, 1972 Sept p 60

Huntoon, R. D, 1950 Oct. p 28 Huntsman, Benjamin, 1974 Aug p 94 Huquenard, E, 1951 June p 45 Hurlbut, Frank, 1958 Jan p 39 Hurley, Lloyd A, 1956 Aug p 54 Hurley, Patrick M., 1954 Nov p 39, 1962 Dec p 69, 1967 Feb p 58, 1968 Apr p 44, Dec p 60, 1969 Mar p 54; 1970 Feb p 32, 1977 Mar p 101, 104 Hurst, Henry, 1978 Jan p 111 Hurst, John G, 1976 Oct p 126 Hurst, R. W., 1977 Mar p 100 Hurtado, Alberto, 1955 Dec p 60-68, 1958 Dec p 124, 1970 Feb p 53 Hurvich, Leo M, 1959 May p 87 Hurwitz, Henry, 1969 Dec p 112 Hurwitz, Jerard, 1961 Aug. p 64, Sept p 82, 1962 Feb p 76, Apr p 77, Oct p 66, 1963 Mar p 83, 1968 Oct p 75 Hurzeler, Johannes, 1956 Apr p 62, June p 91, 96-98, 100, 1964 July p 61, 1972 Jan p 96 Husband & Co, 1956 Oct p 59 Huskins, C Leonard, 1951 Apr p 56 Huston, E. Lee, 1976 May p 42, 43 Hutchings, V W, 1952 Oct p 27 Hutchins, Robert M., 1955 Mar p 50 Hutchinson, D. P., 1961 July p. 51 Hutchinson, Franklin, 1954 June p 30, 1959 Sept p 96 Hutchinson, G Evelyn, 1949 May p 50, 1954 June p 30, 1955 Mar p 54, 1963 Aug p 38, 1970 Sept p 105, 45, 67, 1971 Aug p 55, 1978 Jan p 43 Hutchinson, Harry S, 1970 Dec p 80, 82, 89 Hutchinson, J L., 1967 Jan p 62 Hutchison, Clyde A. III, 1977 Dec p 56 Hutchison, J K D, 1951 Apr p 25 Hutchisson, Elmer, 1958 Feb p 40 Hutner, S H, 1949 Aug p 24, 1953 Mar p 40, 41 Hutson, A L, 1961 Nov p 84 Hutson, A R., 1963 June p 63 Hutt, F B, 1971 June p 59 Hutt, Paul J., 1955 Feb p 72, 73 Hutter, Jacob, 1951 June p 36 Huttente Sect, 1953 Dec p 31-37 Hutton, James, 1951 Dec p 67, 1957 Apr p 81, 1959 Aug p 99, 101, 102, Nov p 168, 170, 172, 1960 May p 70, 1963 Feb p 77, 1973 Jan p 62, 1977 Mar p 92, 104 Hutton, William, 1948 July p 47 Huxley, Aldous, 1950 Aug p 13, 1959 July p 124, 134, 1963 Dec p 64, 1964 Apr p 35, 1974 May p 61 Hurley, Andrew F, 1951 Apr p 67, 1952 Nov p 61, 63, 1958 Nov p 74, 82, Dec p 85, 88, 89, 1961 Sept p 190, 194, 214, 1963 Dec p. 64, 1964 Sept p. 150-151, 1965 Jan p. 60, Mar p 74, Dec p 20, 27, 1966 Mar p 74, 81, 1967 Aug p 71, Nov p 28, 1970 Apr P 36, 1974 June p 88, 1975 Nov p 38 Hurley, H E, 1961 Sept p 185, 192, 198, 200 218, 1965 Mar p 73, June p 79, 82, 86, Dec p 18, 1974 Feb p 58, 59, 64, 69, 71, 1975 Nov p 38, 41 Hurley, Julian, Sir, 1949 Jan p 29, Nov p 22, 1950 Jan p 33, 1952 Aug p 65, 1953 Sept p 74, 1954 Aug p 38, 1956 Apr p 71, 1957 May p 128, 1958 Dec p 73, 1963 Dec p 64. 1972 Sept p 53, 59, 1976 Apr p 39 Hurley, Leonard G H, 1962 Dec p 51 Hurley, Thomas H, 1948 July p 18, 19, Sept p 36, 1949 Mar p 40, Aug p 38, Dec p 52, 1950 Oct p 48, 1953 May p 93, 94, 1954 Mar p 52, Nov p 42, 1955 Oct p 100, Dec p 39, 1956 Feb p 65 69, June p 49, 91, 92, 95, 1958 Dec p 68, 1959 Feb p 70, 72, 82,

84. May p 63, 65, 66, Aug p 102, 103, Nov p 174, 175, 1972 Jan p 94, 1977 Aug p 60 Huygens, Christian, 1948 July p 52, 1949 Nov p 16, 1953 May p 71, 1954 Dec p 95, 1955 Dec p 76, 1958 Apr p 56, Sept p 62, 63, 1959 Oct p 160, 173, 1962 May p 119, 1963 Oct p 42, 1964 Jan p 100, 103, May p 112, Sept p 188, 189, Nov p 108, 1966 Apr p 54, Sept p 163, 1967 Dec p 97, Aug p 97, 98, 100, 1968 May p 95, 98, Sept p 50, 74, 1970 Aug p 97, 1971 July p 94, 1973 May p 87, June p 43, 1975 Sept p 25, 30, 1976 Jan p 63, 1977 Apr p 122 Hvatum, H, 1961 May p 65 Hwang, C F, 1956 June p 64 Hwang, San-Bao, 1976 June p 46 Hyatt, Alpheus, 1949 Sept p 13 Hyde, Earl K, 1978 June p 71 Hyde, James F, 1948 Oct p 51 Hyde, Raymond, 1964 July p 36 Hyden, Holger, 1953 Feb p 55, 1961 Dec p 62, 76, 1963 Feb p 56, 1964 Dec p 51 Hylander, C J, 1949 Dec p 56 Hylean Amazon Institute, 1948 May p 33 Hy-Line Poultry Farms, 1971 June p 59 Hyman, Herbert H, 1962 May p 47, 1971 Dec p 13 Hyman, Hubert H, 1978 June p 43 Hyman, Libbie, 1950 May p 53 Hyman, O W, 1950 Dec p 26 Hynek, J Allen, 1957 Dec p 37, 1958 Jan p 24 Hyrcanus, 1973 Jan p 84, 85

7

I G Farben Industries, 1949 Apr p 27, June p 28, 1955 Oct p 44 Iansley, Arthur G, 1970 Sept p 67 Iaworsky, Georges, 1969 May p 42 Ibarra, Oscar H., 1978 Mar p 129 Ibbetson, Alan, 1968 Feb p 80, 81 Ibbi-Sin, King, 1957 Oct p 83 Ibbotson, Derek, 1976 June p 114 Iben, Icko Jr., 1967 Aug p 34, 1969 July p 35, 36, 1970 July p 27, 1974 Jan p 70, 71, 1975 June p 70, 1977 Oct p 48, 49 IBM, see International Business Machines Corporation ibn-al-Shatir, 1973 Dec p 96 Ichikawa, K. 1973 Oct p 26 Icon, Kwang W, 1970 May p 57 Idler D R 1965 Aug p 84, 85 Idso, Sherwood B, 1973 Jan p 46, 1976 Oct p 108 Iersel, J van, 1952 Dec p 22, 1954 Nov p 42 I G Farben, 1949 Jan p 18, 20, 21 Ignatowski, A., 1966 Aug p 53 Igo, George, 1972 Oct p 103, 108 Ihler, Garret 1970 Jan p 50 lino, Tetsuo, 1975 Aug. p 39 Istra, J., 1962 Dec p 136 Ikeda, Karren 1967 May p 51, 99 Ikeda, Kazuo, 1973 Dec p 32 Ikhnaton, 1963 Nov p 123, 1968 Nov p 64, 1969 Dec p 55
Ikle, Fred C 1974 Apr p 48, May p 31, Oct
p 55, 1975 Mar p 47 lles John F. 1976 Dec p 82 Iliopoulos, John 1975 June p 60, Oct p 47, 1977 Oct p 60 Illiae, 1959 Dec p 112, 113 Illinois Bell Telephone Company, 1977 Aug. p 40 Illinois Institute of Technology, 1958 July p 52,

1966 June p 87, Sept p 181 Illinois Institute of Technology Armour Research Foundation, 1960 Nov p 78 Illinois State Museum, 1975 Aug p 97 Illmensee, Karl, 1978 Feb p 125 Ilych, Ivan, 1973 Sept p 57, 58 Imagawa, David T, 1974 Feb p 35 Imai, Yoshitaka, 1950 Nov p 38 Immarco, Anthony, 1970 Dec p 41 Immon, Thomas W, 1962 Aug p 34 Imperial Cancer Research Fund, 1963 Jan Impenal Chemical Industries, 1955 June p 87, 1957 Sept p 139, 1963 Nov p 100, 104 Impenal College London, 1964 Mar p 70 Imperial College of Science and Technology, 1963 Dec p 137, 1965 Mar p 68, May p 36, June p 24, 1973 Oct p 73, 1977 Apr p 48 Imperial Oil Limited, 1963 Mar p 48 IMSAI Manufacturing Corporation, 1977 Sept Imura, Tsuneo, 1972 Apr p 83 Inaba, Takashi, 1968 May p 112 Inagami, T, 1973 Oct p 54 Inbar, Michael, 1977 June p 113 Inch, William R., 1967 Feb p 43 India-Harvard-Ludhiana Population Study, 1970 July p 108 Indian Agricultural Research Institute, 1971 Jan p 91, 93, 1976 Sept p 39 Indian Atomic Energy Commission, 1974 July p 46, 1975 Apr p 21 Indian Central Drug Research Institute, 1950 Jan p 30 Indian Community Development Program, 1976 Sept p 155, 157 Indian Congress Party, 1965 Dec p 16 Indian Council of Medical Research, 1955 Mar p 63 Indian Department of Scientific Research, 1950 Jan p 30 Indian Family Planning Program, 1970 July p 108, 112 Indian Geological Survey, 1964 July p 56 Indian Health Ministry, 1956 Mar p 69, 70 Indian Intensive Agricultural District Program, 1976 Sept p 155 Indian Irrigation Commission, 1974 Sept p 170 Indian Panjab University, 1970 Jan p 79 Indian Small and Marginal Farmer's Program, 1976 Sept p 155 Indian Statistical Institute, 1964 June p 56 Indiana Civil Liberties Union, 1977 June p 61, Dec p 87 Indiana University, 1949 May p 28, 1956 Apr p 60, 1957 Dec p 114, 1963 Jan p 41, 1964 Mar p 94, Dec p 51, 1973 Mar p 48, 1974 Oct. p 112 Indyk, Leonard, 1975 Sept p 57 Infeld, Leopold, 1964 Aug p 38 Ing, G K T, 1976 Oct p 111 Ingall, Albert G, 1952 Dec p 30 Ingalls, Richard P., 1968 July p 31 Ingebreisen, Robert B, 1975 July p 48 Ingenhousz, Jan, 1948 Aug. p 26, 28, 37, 1960 Nov p 105 Ingersoll, L. R., 1965 Jan p 41 Ingersoll, Robert, 1949 June p 50 Ingersoll, Royal B., 1971 Aug p 47
Ingersoll-Rand Company, 1975 Feb p 22-24 Ingham, M. F. 1959 Oct p 69, 1960 July p 54 62, 63, 1965 May p 36 Inghram, Mark G, 1953 Mar p 72, 1954 Jan p 42, Nov p 49, 1976 July p 41 Ingle, Dwight J. 1949 July p 44, 1958 Jan p 46

Aug. p. 31; 1952 Feb. p. 45; 1954 Mar. p. 57.

58; 1955 Dec. p. 48; 1956 Sept. p. 175-178,

4 : : ij ちにおいる :: .; : :: :: :; :[经过上公司 ŧ i

```
Hsu, Ming-Ta, 1976 Dec. p. 106.
  Hsu, T. C., 1955 Nov. p. 59; 1960 Apr. p. 148;
    1961 Nov. p. 70.
  Hu, T. C., 1970 July p. 96; 1978 Mar. p. 127,
    130.
 Huang, Alice S., 1974 Feb. p. 38.
 Huang, P. C., 1976 Sept. p. 54, 57.
 Huang, Ru-chih, 1962 Sept. p. 106; 1975 Feb.
    p. 48, 49, 52,
 Huang, Su-Shu, 1960 Apr. p. 55; 1977 Apr.
   p. 100.
 Huang, W. H., 1967 June p. 52.
 Huang, Y. T., 1964 Jan. p. 81.
 Huang-ti, Emperor, 1958 Feb. p. 29.
 Hubbard, L. Ron, 1950 Oct. p. 26.
 Hubbard, Ruth, 1959 Oct. p. 102; 1961 Sept.
   p. 228, 232; 1966 Oct. p. 79; 1967 June p. 72.
 Hubbard, William B., 1975 Sept. p. 121, 138.
 Hubbell, David H., 1977 Mar. p. 70.
 Hubbert, M. King, 1961 Jan. p. 138; Feb. p. 98;
   1963 Sept. p. 118, 120; 1970 Sept. p. 176, 184;
   1971 Sept. p. 61; 1976 Jan. p. 22
 Hubble, Edwin P., 1948 July p. 21-24; Aug.
   p. 15, 16; 1949 Aug. p. 25; 1950 Dec. p. 40;
   1952 Feb. p. 43, 45, 46, 47, 49, 50; 1953 June
   p. 60, 63, 65, 66; 1954 Mar. p. 57, 58; July p.
   33; 1956 Sept. p. 145, 146, 148, 175, 177, 182,
   79-81, 93, 98; 1959 July p. 51, 53; 1961 Feb.
   p. 54, 56; 1963 Jan. p. 71, 75, 77, 84; June p.
   97; Dec. p. 59; 1965 Apr. p. 64; 1966 Dec. p.
   43; 1967 June p. 28; 1969 Jan. p. 28, 34, 35,
   37; 1970 June p. 26, 28, 30, 31; Dec. p. 23, 24;
   1971 July p. 77; 1972 Feb. p. 41; 1973 June
   p. 31; Dec. p. 39, 47; 1974 Jan. p. 69, 71; May
   p. 108; Aug. p. 26; 1975 Dec. p. 50; 1976 Mar.
   p. 62-65, 68-70, 72, 72B, 77, 79; Dec. p. 89;
   1977 Aug. p. 35; 1978 May p. 65, 67.
 Hubbs, Carl L., 1949 May p. 50; 1955 Jan. p. 65.
 Hubby, John L., 1970 Mar. p. 103, 104; 1975
 Hubel, David H., 1964 Mar. p. 114; Oct. p. 99;
   Dec. p. 53; 1965 Feb. p. 44; 1969 Jan. p. 77;
   May p. 108, 109, 113; 1970 July p. 57; 1971
   May p. 89, 91, 92; June p. 37; 1972 Aug. p. 84,
  86, 93; Sept. p. 49, 50; Dec. p. 74, 75, 77, 78;
   1973 Mar. p. 74; 1974 May p. 44, 48, 49; July
  p. 104; Nov. p. 110, 111; 1976 Dec. p. 43-45.
Huber, Bruno, 1963 Mar. p. 134.
Huber, Franz, 1974 Aug. p. 35, 38, 42.
Huber, George, 1953 Nov. p. 56; 1966 Nov.
Huber, James D., 1969 June p. 41.
Huber, Martin C. E., 1973 Oct. p. 74.
Huber, Pierre, 1975 June p. 35.
Huber, Robert, 1966 May p. 52; 1974 July p. 79;
  1977 Jan. p. 59.
Huberman, Joel A., 1978 Apr. p. 86.
Hubert, B., 1953 Nov. p. 83.
Hubert, E., 1976 Aug. p. 69.
Hubert, William, 1949 Feb. p. 44.
Huck, Friedrich O., 1978 Mar. p. 87.
Huck, J. S., 1951 Aug. p. 56.
Hückel, Erich, 1951 Jan. p. 41; 1972 Aug. p. 36-
  39.
Hückel, Walter, 1970 Jan. p. 58.
Hudson, Jack W., 1961 Nov. p. 107, 114.
Hudson, Perry B., 1959 May p. 78.
Hudson, R. P., 1965 Dec. p. 28.
Hudson, Thomas, 1976 May p. 100.
Hudson, W. H., 1950 Jan. p. 52, 53; 1959 Feb.
  p. 73.
Hudson, William, 1972 Nov. p. 84-87.
Huebner, K. H., 1975 July p. 60.
Huebner, Robert J., 1954 Nov. p. 52; 1960 Dec.
  p. 91, 92; 1966 Mar. p. 34, 36; 1967 Apr.
```

Hueper, Wilhelm C., 1949 Jan. p. 14; 1956 Oct.

```
p. 68.
     Huettel, A., 1955 Aug. p. 64, 66.
    Huettner, Alfred F., 1950 Feb. p. 52.
    Huey, E. B., 1972 July p. 91.
    Huey, Edward G., 1949 Dec. p. 52.
    Huez, G., 1976 Aug. p. 69.
    Huff, Bradley G., 1973 May p. 39.
    Huffaker, Robert M., 1962 Nov. p. 72; 1964
      Feb. p. 52, 54, 55.
    Hufnagel, Charles A., 1959 Oct. p. 57; 1962 Jan.
      p. 68.
    Huggett, Arthur St. George J. McC., 1959 Oct.
      p. 83.
    Huggins, Charles B., 1949 June p. 26; 1966 Dec.
      p. 56; 1967 Nov. p. 28.
    Huggins, William, Sir, 1965 Feb. p. 91, 94; 1973
      June p. 30; 1974 Oct. p. 34.
    Hughes Aircraft Company, 1960 Apr. p. 88;
      Oct. p. 80; 1963 July p. 34, 40, 42; Sept. p. 84;
      1964 Apr. p. 48, 49; 1966 July p. 50; Sept.
      p. 150, 152; 1967 Mar. p. 60; 1971 June p. 22;
      1976 Apr. p. 54; 1977 Feb. p. 58, 59.
   Hughes, Charles E., 1950 Nov. p. 11; 1970 May
      p. 23.
   Hughes, David E., 1969 Mar. p. 104.
   Hughes, Donald J., 1956 Sept. p. 85; 1958 Feb.
      p. 42; July p. 46.
   Hughes, Ernest, 1970 Oct. p. 54.
   Hughes, G. M., 1967 May p. 46, 47.
   Hughes, G. W., 1965 Oct. p. 57.
   Hughes, John, 1977 Feb. p. 50; Mar. p. 49.
   Hughes, R. E., 1966 July p. 103.
   Hughes, Thomas P., 1955 Mar. p. 60, 62; 1968
     June p. 94, 95.
   Hughes, Vernon W., 1966 Apr. p. 93, 96, 98.
   Hughes, Walter H., 1951 Jan. p. 42.
   Hughes, Walter L., 1957 Sept. p. 189; 1958 June
  p. 39; 1963 Aug. p. 106.
Hugo, Victor, 1977 Oct. p. 132.
  Huguenard, E., 1961 Apr. p. 136, 137, 138.
  Huguenin, Robert L., 1978 Mar. p. 87, 89.
  Hui, Tzu, 1957 June p. 140.
  Huichol Indian Tribe, 1977 Oct. p. 133.
  Huie, William Bradford, 1949 July p. 26.
  Huisken, Ronald H., 1977 Nov. p. 70.
  Huizinga, Johan, 1956 Dec. p. 67; 1964 Feb.
    p. 121.
  Huldschinsky, Kurt, 1970 Dec. p. 80, 82.
  Hülegü Khan, 1963 Aug. p. 55, 61.
  Hulett, H. Russell, 1976 Mar. p. 111.
  Huling, Maurice, 1963 Apr. p. 122.
 Hull, Albert W., 1968 July p. 63.
 Hull, Barbara E., 1978 May p. 141; June p. 112.
 Hull, Clark L., 1952 Mar. p. 70; 1957 Apr. p. 54;
   1958 Jan. p. 78, 82; 1963 Apr. p. 118; May
   p. 130; 1965 Feb. p. 88.
 Hull, David, 1968 Mar. p. 110; 1970 Feb. p. 62.
 Hull, G. W. Jr., 1962 June p. 82; 1971 Nov.
   p. 28.
 Hull, Gordon F., 1957 June p. 101; 1972 Feb.
 Hull, Howard K., 1973 Oct. p. 71.
 Hulm, John K., 1957 Nov. p. 96; 1962 June
   p. 62, 64; 1964 June p. 56; 1971 Nov. p. 22,
Hulse, Frederick S., 1968 Jan. p. 27.
Hulse, Russell A., 1975 Mar. p. 35.
Hulst, H. C. van de, 1953 Dec. p. 42, 43, 46;
   1959 Dec. p. 95, 98, 103; 1960 Apr. p. 83; July
  p. 61, 62; 1963 June p. 94; 1973 Oct. p. 76;
   1974 July p. 62, 66; 1977 June p. 68.
Hulten, Eric, 1962 Jan. p. 123.
Hultin, Tore J. M., 1961 Sept. p. 79.
Human, Mary L., 1955 Apr. p. 92; 1970 Jan.
Humann, Karl, 1956 July p. 40, 41.
Humason, Milton L., 1950 Sept. p. 26; 1951
```

```
182, 80; Oct. p. 66; 1959 Apr. p. 93; 1964
          Aug. p. 14; 1966 Dec. p. 43; 1970 Dec. p. 23,
          24; 1972 Feb. p. 41; 1975 Sept. p. 131; 1977
          Aug. p. 35.
       Humayun, Zafri, 1976 Jan. p. 74.
       Humble Oil and Refining Company, 1956 Nov.
         p. 74; 1968 July p. 102; Sept. p. 86; 1971 Sept.
         p. 37.
       Humboldt, Alexander von, 1948 May p. 12;
         1949 Feb. p. 54; 1952 July p. 17; 1954 Mar.
         p. 79-81; June p. 80; 1956 Jan. p. 102; 1958
         Mar. p. 94; 1959 Feb. p. 74, 75, 77; 1969 Nov.
         p. 104; 1973 June p. 22; Dec. p. 67.
      Hume, David, 1976 Aug. p. 92.
      Hume, David M., 1956 Mar. p. 60; 1959 Oct.
        p. 58.
      Hume-Rothery, William, 1964 Aug. p. 40; 1968
        July p. 66.
      Humphrey, George D., 1950 Dec. p. 26; 1956
        Aug. p. 49.
      Humphrey, Hubert H., 1975 Aug. p. 46; 1977
        Nov. p. 49.
     Humphrey, John H., 1973 Nov. p. 62.
     Humphreys Engineering Co., 1968 Jan. p. 34,
     Humphreys, Thomas, 1961 Sept. p. 146; 1970
        May p. 81; 1972 June p. 28.
     Humphreys, W. J., 1952 Apr. p. 74, 76, 80.
     Humphries, Barbara, 1963 Feb. p. 57.
     Humphries, Rolfe, 1967 Jan. p. 106.
     Hunchback, Gao, 1960 Sept. p. 83.
     Hund, Felix, 1970 Apr. p. 54.
     Hundhausen, A. J., 1977 Mar. p. 36, 39.
     Hundhausen, E., 1977 Apr. p. 123, 124.
    Hunger, A., 1954 Dec. p. 58.
    Hunger, Kurt, 1967 Aug. p. 35.
    Hungerford, David A., 1978 Feb. p. 119.
    Hunkapillar, Michael, 1974 July p. 81.
    Hunnicutt, Richard P., 1975 July p. 59.
    Hunt, B. G., 1971 Jan. p. 37.
    Hunt, Charles B., 1959 July p. 72.
    Hunt, Gilbert, 1969 Mar. p. 70.
    Hunt, H. R., 1957 Dec. p. 116.
    Hunt, J. D., 1967 Dec. p. 69.
    Hunt, J. M., 1950 Dec. p. 32.
   Hunt, J. McV., 1971 Oct. p. 30.
   Hunt, John, Sir, 1950 Mar. p. 39; 1956 May
     p. 45; 1958 Jan. p. 72; 1959 July p. 64.
   Hunt, Leon G., 1975 Feb. p. 41.
   Hunt, Lois T., 1969 July p. 87.
   Hunt, Morton M., 1953 Feb. p. 35.
   Hunt, R. K., 1974 May p. 44.
   Hunt, T., 1959 Jan. p. 41.
   Hunt, V. O., 1971 Dec. p. 22.
   Hunten, Donald M., 1970 Mar. p. 62; 1977 July
     p. 39.
   Hunter, Charles, 1971 Jan. p. 100-102.
  Hunter, Irving R., 1968 June p. 46.
  Hunter, John, 1957 Mar. p. 77; June p. 63, 65;
    1959 Feb. p. 79; 1961 Apr. p. 91; 1966 June
    p. 94; 1971 Dec. p. 73.
 Hunter, Ronald, 1966 Aug. p. 78.
 Hunter, W. D., 1959 June p. 55.
 Hunter, W. F., 1954 Dec. p. 60; 1963 July p.
 Hunter, W. M., 1972 July p. 81.
 Hunter, Walter S., 1957 June p. 144.
 Hunter, William, 1950 Jan. p. 16.
 Hunting Survey Corporation Limited, 1963 Apr.
   p. 59.
 Huntingdon, Countess of, 1977 June p. 123.
Huntington, Ellsworth, 1954 Apr. p. 73; 1956
   Apr. p. 40.
Huntington, Harriet E., 1949 Dec. p. 54.
Huntington, Robert, 1956 Nov. p. 54.
Huntley, H. E., 1954 Nov. p. 39.
```

International Telecommunications Union, 1959 Nov p 88, Dec p 82, 1964 Apr p 62 International Telemeter Corporation, 1955 June p 96, Sept. p 74 International Telephone and Telegraph Corporation, 1952 Aug p 50, 1957 Jan p 49, 1970 Feb p 30 International Tidal Institute, 1960 May p 73 International Union against Cancer, 1956 Oct p 68 International Union for the Conservation of Nature and Natural Resources, 1973 June p 40 International Union for the Protection of Nature, 1949 May p 29 International Union of Biological Sciences, 1967 May p 55 International Union of Chemistry Commission on Inorganic Nomenclature, 1949 Nov p 30 International Union of Crystallography, 1948 June p 25 International Union of Food Science Technology, 1974 Aug p 75 International Union of Geodesy and Geophysics, 1962 Mar p 130, 1963 Oct p 56, 58 International Union of Pure and Applied Chemistry, 1961 Oct p 80, 1963 Apr p 70, 1969 Apr p 63, 1970 June p 49 International Union of Pure and Applied Physics 1961 Oct p 80, 1962 Aug. p 56 International Whaling Commission, 1966 Aug. p 16, 17, 20, 21 International Wheat Improvement Program, 1975 June p 16 International Women's Year, 1977 Jan p 27 Interprovincial Pipe Line Company 1967 Jan p 70 Interstate Commerce Commission 1968 Feb p 27 Interstate Oil Compact Commission 1965 July p 37 Inter Union Committee on Frequency Allocation for Radio Astronomy and Space Research Services 1964 Apr p 62 losse, A F 1977 May p 36 lolle, M S 1966 Dec p 23 31 lowa Nob Hill State Park, 1957 May p 116 Iowa State University 1948 Dec p 9 1956 Apr p 60, 1958 July p 52 1963 July p 118 1966 Mar p 58 1978 Apr p 78 Ipaticff Vladimir N 1949 Dec p 35 36 1971 Dec p 49 50 Ippen E 1973 June p 60 Ippen Kann 1970 Jan p 50 lpser James 1968 Apr p 43 Iran Archaeological Service 1971 June p 103 Iraq Directorate General of Antiquities 1957 Vov p 59 Iraq Government 1957 Nov p 64 Iraq Petroleum Company Ltd 1948 Sept p 13 Irecne W W 1957 Jan p 77 Itene Princess of Hesse 1965 Aug p 88 Ink, Y 1968 June p 105 Insh Dunsink Observatory 1952 July p 47 57 Insh Royal Academy 1960 Nov. p. 160 from Mines Company, 1965 Sept. p. 123 Inchindes Bjorn, 1967 May p. 74 Iroquosis Indian Nation 1971 Feb p 42 Imma L. 1963 June p 73 1969 Nov p 104 1970 Oct p 41 Irong G W Jr 1952 Apr p 57 In 13 Laurence 1049 July p 52 54, 1952 Oct p 70 1963 Dec p 92.94 Ining W > 1967 June p 57

Irwin, George R., 1960 Feb p 94 Irwin, Howard S., 1976 Nov p 111, 1977 Aug. p 98 Irwin, James B, 1971 Sept p 74 Irwin, John B , 1959 July p 55 Irwin, Robert, 1949 June p 50-55 Irwin-Williams, Cynthia, 1967 June p 57 Isaac, Glynn 1974 Aug. p 50, 1978 Apr p 90 Isaacman, Richard, 1975 Sept p 30, 31 Isaacs, Alick, 1958 Aug p 48, 1960 Dec p 100 1961 May p 51, 1963 Sept p 84, Oct p 46, 1971 July p 26, 27, 1977 Apr p 42 Isaacs, John D, 1960 Aug p 83, 1969 Sept p 64, 1974 Aug. p 21, 22, 1977 June p 49 Isaacs, Norman, 1961 Mar p 153 Isaacson, Leonard M, 1959 Dec p 112, 113 Isaacson, Peter A., 1967 Mar p 27, 31 Isaacson, Robert L. 1977 June p 89 90 Isabella, Queen, 1957 Mar p 121 Isaccs Alick, 1969 Jan p 46 Isaccs, John D, 1975 Oct p 85 Isacks, Bryan L 1972 May p 63, 1975 Nov p 94 96 Isaiah, 1968 Oct p 115 Isakson, Frank B, 1965 Jan p 28 Isbell Harris 1958 Jan p 62, 1966 Nov p 135, 1969 Dec p 23 Iseki, Shoei, 1969 Nov p 121 Iselin, Columbus O'D 1955 Sept p 102 1956 Jan p 98, 1963 Nov p 66 Isenberg, Gehard 1965 Sept. p 64 Isen Oscar A 1976 Mar p 26 30 Isherwood B F 1968 Jan p 121 Ishida, Yoichi, 1977 Dec p 138 Ishihara, Fusao 1967 Aug p 69 Ishiko Nobusada 1960 Aug. p 105 Ishimoto H 1958 Aug. p 80 Isidore of Seville, 1968 Oct p 116 Ising, Gustaf 1954 Oct p 40 43 Iskian, Anahid 1976 Apr p 104 Isliker, H 1957 July p 96 Israel Werner 1972 May p 45 1974 Dec p 35. 1977 Jan p 36 Israeli Institute for Biological Research 1975 July p 109 Israeli National Museum 1971 Nov p 80 Israeli National Physical Laboratory 1956 Jan p 50 July p 99 102 Israeli National Water Carrier 1977 May p 25 Israeli Soil Conservation Service 1960 Mar p 60 62 Israeli Soreg Nuclear Research Center 1971 Oct p 94 Israeli Water Planning Agency 1960 Mar p 63 Islanbul University 1970 Mar p 53 Italian Academy of Agriculture 1967 Mar Italian Aerospace Research Center 1977 Oct p ol Italian Association of Women Physicians 1951 Mar p 30 Italian Department of Antiquities 1975 Feb Italian Higher Institute of Health 1965 July p 97 Italian Institute of Industrial Chemistry 1963 Jan p 95 Italian Institute Superiore di Sanita 1964 Jan Italian National Central Library 1973 Mas p \$4 197 Mar p 102 103 June p 100 Italian National Laborators 1966 Nov p. 111 112, 116 Italian National Library 1971 Feb p 101 Italian National Research Courcil, 1967 Mar. Italien Magistrato della Sanita, 1964 Feb

p 115 Itani, Junichiro, 1976 Oct p 104 Itano, Harvey A, 1951 Aug p 57, 58, 1974 Sept p 81, 1975 Apr p 46 Itek Corporation, 1968 Sept p 102, 107, 1973 Feb p 15, 24 Iten, Laurie E., 1977 July p 69 Iterson, Woutera van, 1962 Mar p 117 Ito, K., 1969 Mar p 70 Ito Masao, 1972 June p 96, 1975 Jan p 63 Ito, Shizuo, 1970 May p 84, 81 Ito, Susumu, 1961 Sept p 58, 1969 Feb p 105 Ittelson N H, 1959 Apr p 56 Ittelson, W H, 1953 Mar p 64 Ittner, William B, 1965 Oct p 57 Ivan the Terrible, 1971 May p 15 Ivanov Borts 1976 June p 109 Ivanov J A, 1962 Sept p 126 Ivanova, I K, 1974 June p 98 Iversen, James D., 1975 Sept p 116 Iversen, Leslie L., 1974 June p 63, 1977 Aug. p 115 Iverson, O H, 1967 July p 44 Iverson, Ray M, 1961 Sept p 115 Ivey, Henry F, 1967 May p 109 Ivins William M. Jr., 1972 Sept. p 87 Ivy Andrew C, 1952 Jan p 40, 1976 Aug p 24 Iwanowsky, D., 1962 Mar p 117 Iwasa, Yukikazu, 1973 Oct p 24 Izsak Imre E., 1961 Apr p 76, Nov p 80

 \int

Jacchia, Lingi G 1959 Aug. p 38, 40, 1974 Aug p 50 Jack, Robert F. 1962 June p 63 Jackiw, Roman W, 1977 Mar p 64 Jackson Andrew, 1948 Sept p 41, 43, 1950 Nov p 11, 12, 1951 June p 16, 1960 Feb p 38, 1976 June p 21 Jackson David, 1975 July p 26 Jackson, Dennis, 1957 Jan p 78 Jackson Don D 1953 Jan p 63 Jackson Donald C, 1969 Jan p 93 Jackson E. B. 1949 Aug p 32 Jackson George G. 1960 Dec p 99 100 Jackson Henry M 1957 Aug. p 58, 1965 June p 116 1969 Aug. p 26, 1974 Jan p 29 Jackson Hughlings 1948 Oct p 29 30, 1977 Oct p 140 Jackson, John H 1973 July p 96 Jackson K P. 1970 Dec p 41, 1978 June p 67 Jackson Kenneth 1960 Nov p 166, 1967 Feb Jackson L, 1976 Jan p 86 Jackson Laboratories 1965 Nov p 79, 1977 Oct p 96 Jackson N H 1965 June p 111 Jackson P H 1958 July p 26 Jackson Ray W 1954 Apr p 44 Jackson Robert H. 1950 Aug. p 28 1951 July p 30 Jacob 1958 June p 52. Jacob François 1961 July p 66 1962 Feb p 47 1963 Mar p 83, 1964 May p 52, Nov p 76 1965 Npr p 37-39 42 Dec p 38, 1967 Feb p 38 June p 52, Nov p 28 20, Dec p 22 1968 Da p 45 1969 Apr p 35, Oct p 28 29 Nov p 122 1970 June p 36 38 39. 42, 1974 June p 49, 1976 Jan p 64 Fcb p 33 35 Jacob T Mathat 1964 June p 36 1965 June p 57 Jacobi Aoraham, 1972 Oct p 72

Itam Fend a 15 his Irwin Reben

Ingold, M., 1969 May p. 24.

Ingraham, J. L., 1969 Oct. p. 35. Ingram, Diana, 1973 Mar. p. 76. Ingram, Marylou, 1970 Nov. p. 72. Ingram, R. S., 1973 Jan. p. 46. Ingram, Vernon M., 1957 Aug. p. 58; Sept. p. 200; 1958 Mar. p. 120; 1959 July p. 64; 1963 Nov. p. 114, 115; 1966 Feb. p. 34; 1967 May p. 91; 1975 Apr. p. 46. Ingstad, Helge, 1964 Jan. p. 56; 1967 May p. 78. Inhelder, B., 1953 Nov. p. 77, 79. Inhoffen, H., 1953 Dec. p. 54. Inkeles, Alex, 1955 May. p. 56. Inman, Robert E., 1971 Aug. p. 47. Inman, Ross, 1973 Aug. p. 26. Innamorati, Teresa F., 1977 May p. 104. Innes, K. Keith, 1977 Feb. p. 95. Innes, M. J. S., 1958 July p. 39. Innocent III, Pope, 1964 Nov. p. 116. Inokuchi, Kiyoshi, 1962 Oct. p. 50. Inose, Hiroshi, 1972 Sept. p. 112, 132. Inou, Tsunamasa, 1963 Jan. p. 66. Inoue, Kozo, 1973 Nov. p. 64. Inoué, Shinya, 1953 July p. 61; 1961 Sept. p. 108, 115, 118; 1977 Apr. p. 83. Inouye, W. Y., 1961 July p. 61. Inslerman, Felix, 1954 June p. 30. Inslerman, Hans, 1954 June p. 30. Institute for Advanced Study, 1951 May p. 36; 1954 Aug. p. 36; 1957 May p. 62; 1963 Mar. p. 64; 1975 May p. 90; 1977 Oct. p. 50. Institute for Cancer Research (Phil.), 1978 Feb. p. 125. Institute for Defense Analyses, 1962 May p. 46; 1968 May p. 48; 1972 Aug. p. 44. Institute for Muscle Disease, 1965 June p. 43. Institute for Research on Poverty, 1972 Oct. p. 23, 25. Institute for Strategic Studies, 1966 Aug. p. 40; 1970 June p. 46. Institute Gustave-Roussy, 1964 May p. 92. Institute Merieux, 1969 June p. 55. Institute of Aeronautical Sciences, 1964 Mar. p. 34. Institute of Andean Research, 1954 Aug. p. 29. Institute of Behavioral Research, 1964 May Institute of Gas Technology, 1972 Oct. p. 35. Institute of Paper Chemistry, 1958 Oct. p. 106; 1969 July p. 54. Institute of Radio Engineers, 1954 July p. 48. Institute of Society, Ethics and Life Sciences, 1974 Sept. p. 64. Institute of Textile Technology, 1953 Oct. p. 58. Institution of Mechanical Engineers, 1966 Mar. p. 63. Intel Corporation, 1977 Sept. p. 63, 126, 138, 147, 151, 153,. Intelsat, see: International Telecommunications Satellite Organization. Inter-American Development Bank, 1976 Sept. p. 38. Intergovernmental Maritime Consultative Organization, 1962 Nov. p. 71. International Agricultural Development Service, 1976 Sept. p. 38. International Air Transport Association, 1968 Oct. p. 87. International Assembly on Nuclear Weapons, 1966 Aug. p. 40. International Association of Physical Oceanography, 1960 May p. 73. International Astronomical Union, 1952 Nov. p. 46; 1953 May p. 56; 1961 Oct. p. 80; Nov. p. 78; 1964 Aug. p. 14; Oct. p. 60. International Atomic Energy Agency, 1957 Dec. p. 60; 1958 Aug. p. 50; 1960 Jan. p. 71; Aug.

1976 July p. 41; 1978 Apr. p. 51, 57. International Bank, 1963 Sept. p. 182. International Biological Program, 1967 Feb. International Bitumen Company, 1949 May p. 53. International Bureau of Standards, 1955 Mar. p. 52. International Bureau of Time, 1971 Dec. p. 83, 85-88. p. 75; 1968 Jan. p. 46; June p. 52, 54; 1970 July p. 19; Oct. p. 68. International Business Machines Corporation, June p. 93-95; 1958 June p. 97; Dec. p. 50; 1960 June p. 102; Dec. p. 52; 1961 July p. 130; 1962 Feb. p. 104; Dec. p. 72; 1963 p. 22, 23; Sept. p. 85, 92, 112, 129, 177, 179, 200, 208, 228, 231; Oct. p. 46; 1968 Nov. p. 64; 1970 Feb. p. 25; June p. 58; Oct. p. 103, p. 32; 1972 Nov. p. 35, 36, 40, 42; 1973 Apr. p. 67, 69; 1974 Sept. p. 88; 1976 Sept. p. 31; Oct. p. 95; Dec. p. 94; 1977 June p. 41; Sept. p. 144, 160, 172, 174. International Catholic Institute for Social Research, 1956 Apr. p. 71. International Center for Theoretical Physics, 1976 Nov. p. 55. International Center of Tropical Nutrition, 1971 Aug. p. 40, 41. International Children's Emergency Fund, 1948 June p. 24; Nov. p. 25; 1949 Apr. p. 26. International Civil Aviation Organization, 1964 Mar. p. 27. International Commission on Radiological Protection, 1955 Oct. p. 40. International Commission on Zoological Nomenclature, 1966 Nov. p. 49. International Committee on Geophysics, 1961 May p. 75. International Committee on Radiation Protection, 1959 Dec. p. 80. International Computers Limited, 1970 Oct. p. 105. International Congress of Anthropological and Ethnological Sciences, 1957 May p. 43. International Council of Scientific Unions, 1954 Apr. p. 45; 1958 Sept. p. 86; Dec. p. 53; 1960 Apr. p. 83; Aug. p. 70; 1962 June p. 78; 1967 May p. 55; 1969 Jan. p. 67; 1978 Jan. p. 39. International Council of Scientific Unions Committee on Contamination by Extraterrestrial Exploration, 1958 Dec. p. 53. International Crops Research Institute for the Semi-Arid Tropics, 1976 Sept. p. 188. International Data, 1970 Oct. p. 104. International Development Research Center, 1976 Sept. p. 68. International Disposal Corporation, 1967 Jan. International Electrical Congress (1881-1908), 1970 July p. 19. International Electrotechnical Commission, 1972 May p. International Enzyme Commission, 1971 Mar. p. 26.

p. 70; 1963 Apr. p. 58; Nov. p. 64; 1965 Sept. International Federation for Information p. 80; 1966 Dec. p. 22; 1971 Jan. p. 94; 1972 Processing, 1974 Nov. p. 52. Mar. p. 19; 1974 Jan. p. 50; July p. 46; Oct. International Federation of Multiple Sclerosis p. 29; 1975 Apr. p. 19, 21-23, 28; Nov. p. 27; Societies, 1970 July p. 40. International Food Policy Research Institute, 1976 Sept. p. 32, 37. International Fund for Agricultural p. 31, 32; 1970 Sept. p. 69; 1973 June p. 75. Development, 1976 Sept. p. 204. International Geodetic Association, 1971 Dec. International Geophysical Year, 1955 Sept. p. 68, 90; 1956 Jan. p. 45; 1957 Dec. p. 39; 1958 Jan. p. 28; 1959 Mar. p. 39, 44; 1960 June p. 64, 65, 69, 71; Oct. p. 100; Dec. p. 64; International Bureau of Weights and Measures, 1961 Apr. p. 108; July p. 87; Dec. p. 52; 1962 1950 Oct. p. 28; 1952 Nov. p. 46; 1960 Dec. Sept. p. 65; 1973 Apr. p. 51, 53. International Harvester Company, 1967 Aug. p. 57. International High Altitude Expedition, 1955 1948 Nov. p. 19; 1949 Apr. p. 30, 32, 35, 37, Dec. p. 66. 39; 1953 May p. 55; 1954 Jan. p. 21, 23; 1955 International Hydrographic Bureau, 1966 Mar. p. 26. International Indian Ocean Expedition, 1961 Apr. p. 116. June p. 124, 130; July p. 38; Dec. p. 35; 1964 International Institute for Strategic Studies, 1973 Aug. p. 12. Apr. p. 43; July p. 101; Sept. p. 151, 208, 203, 206; 1965 Mar. p. 106; Nov. p. 59; 1966 Aug. International Institute of the Hylean Amazon, 1948 Oct. p. 24. International Institute of Tropical Agriculture, 1976 Sept. p. 148, 188, 190. 106-108; Nov. p. 44; 1971 Apr. p. 57, 63; July International Laboratory for Research on Animal Diseases (ILRAD), 1976 Sept. p. 188. International Labour Organization, 1963 Apr. p. 58. International Latitude Service, 1971 Dec. p. 85, 86, 88. International Liquid Xtal Company, 1973 June p. 71. International Livestock Center for Africa (ILCA), 1976 Sept. p. 188. International Maize and Wheat Improvement Center (CIMMYT), 1974 Aug. p. 74, 76, 80; 1976 Sept. p. 38, 140, 147, 188, 190. International Meteorological Institution, 1970 Sept. p. 154. International Minerals & Chemical Corporation, 1969 Aug. p. 50 International Monetary Fund, 1966 July p. 43. International Nickel Company, Inc., 1960 June p. 146; 1963 Aug. p. 72, 78, 80. International Nuclear Fuel Cycle Evaluation (INFCE), 1978 May p. 81. International Organization for Standardization, 1972 May p. 49. International Paper Company, 1971 Nov. p. 98. International Planned Parenthood Federation, 1973 Nov. p. 50. International Polar Motion Service, 1971 Dec. p. 83. International Potatoe Center (CIP), 1976 Sept. p. 188. International Red Cross, 1976 Jan. p. 56. International Rice Research Institute, 1970 Sept. p. 168; 1971 Jan. p. 94; 1974 Sept. p. 176; 1976 Sept. p. 38, 161, 181, 184, 186, 188. International Scientific Radio Union, 1961 Oct. p. 91. International Scientific Unions, 1958 Nov. p. 53. International Seabed Authority, 1978 Apr. p. 78. International Statistical Institute, 1974 Sept. International Telecommunications Satellite Organization (Intelsat), 1972 Sept. p. 122; 1976 Apr. p. 54; 1977 Feb. p. 58, 60.

p 112, 117, Oct p 27, 28 Jenner, William, Sir, 1965 Aug p 89 Jenneret, Charles E., 1954 Apr p 61 Jenney, W L B, 1955 Mar p 47 Jennings, Margaret 1969 Feb p 105 Jennings Peter R, 1976 Sept p 38, 181, 200 Jennings, W H, 1972 May p 50 Jennison, Roger C, 1953 Mar p 50, 1964 Nov p 40, 1975 Aug. p 28 Jens, Rachel, 1953 Oct p 70 Jensen, Aksel T., 1968 Dec p 106 Jensen, Arthur R., 1970 Oct. p 19, 27-29 Jensen, C O, 1952 June p 66 Jensen, David, 1966 Feb p 84, 1975 Oct. p 89 Jensen, Elwood V, 1972 Mar p 42, 1976 Feb p 35, 36, 43 Jensen, Fred C., 1968 Mar p 34, 1973 June p 91 Jensen, Frederick R., 1970 Jan p 64 Jensen, Homer, 1961 Oct. p 146, 1977 Oct Jensen J H D, 1959 Jan p 78, 1963 Dec p 64, 1966 July p 70, 1967 Nov p 28, 1969 Apr p 63, 1975 Dec p 48 Jensen, M LeRoy, 1970 Sept p 154 Jensen, Marun, 1956 Mar p 116, 120, 122 Jensen, P Boysen, 1949 May p 40 Jensen, R. C, 1973 Feb p 89 Jensen, Reed J., 1977 Feb p 92, 96 Jensen, Robert A. 1950 Nov p 42 Jensen, Soren, 1971 May p 17 Jensen, T E., 1977 Aug. p 90 Jenson, Nicolas, 1969 May p 62 Jeppesen and Company 1964 Mar p 34 Jeppesen, P G N 1969 Nov p 58 Jerkie, Sonja, 1976 Nov. p. 126 Jerloo Nils C, 1971 Jan p 65 Jemberg, Sixten, 1965 May p 88 Jeme, Niels K. 1961 Jan p 63 1970 Aug p 34, 1973 June p 85, July p 52 53 1974 Apr p 36 Jemelov, Arne, 1970 Sept p 86, 1971 May p 17 Jernigan, Garrett, 1977 Oct p 53 Jerome, Saint, 1960 Nov p 162, 1968 Oct p 115 Jerosch H Brockmann 1978 Jan p 38 Jersey Central Power and Light Co 1966 Feb p 50 Jerns George 1949 July p 16, 1956 Dec p 128 Jesse 1973 Oct p 35 Jesse, O 1963 June p 51 Jessop Alan VI 1977 Aug. p 63 66 Jessup R S 1955 Nov p 45 Jesus of Nazareth 1949 June p 43 1955 Mar p 99 1960 Jan p 55 Apr p 73 1964 Nov p 34 1965 July p 90 1966 Apr p 75 1970 Sept p 123 1971 Nov p 73 77 1977 Jan Jet Propulsion Laboratory see California Institute of Technology Let Propulsion Laboratory Jenon Anton, 1975 Dec p 34 Jetton Els 1975 Dec p 34 Je ous Patricia 1961 Apr p 80 Jeiens William S 1952 Mar p 69 70 73 1956 Ins b 44 Jesell B R 1965 June p 55 Jewell Theodore C Jr 1957 July p 96 h Tae H 1977 June p 116 118 Iga Dan 1974 May p 59 In eck R 1978 May p 62 Inchus Arm 1945 Dec p 26 June 1 Are 1977 Oct p 132 Je mis & 1467 Feb p 77 1 40 VI Dem 1903 Sept p 214

Job, 1958 Sept p 100 Jobsis Frans F, 1970 Apr p 89, 90, 91 Jochelson Waldemar, 1958 Nov p 117 Jochi, 1963 Aug p 60 Jodrell Bank Observatory, see University of Manchester Jodrell Bank Radio Observatory Joensu, Owa I, 1978 Feb p 56 Josse, Abram F. 1959 Jan p 64, 1961 Dec p 124, 1962 Dec p 96, 1964 June p 70 Johannsen, Wilhelm L., 1950 Sept p 55, 1951 Aug p 39, 40, 1953 July p 56 Johanson, Donald, 1976 May p 56 Johanson Donald C, 1977 May p 31 Johanson, Karl, 1974 Dec p 64 Johansson Gunnar, 1959 July p 60, 1978 May p 126 Johl, Albert, 1956 Sept p 113 John, Erwin R. 1957 Nov p 74, 1959 Aug p 96, 1961 Dec p 78, 1963 Feb p 56, 57 John Frederick, Duke of Hanover 1968 May John Innes Horticultural Institution, 1964 June p 85, 91 John of Salisbury, 1972 Sept p 78, 1978 Jan p 68 John Prester 1968 Oct p 115 116 John the Baptist Saint, 1964 June p 105 Johns Harold, 1962 Dec p 136 Johns Hopkins Hospital 1950 Mar p 53 1957 Feb p 51, 1958 Apr p 41 45, 1963 Nov p 54, 1977 June p 100 Johns Hopkins Press 1971 Oct p 40 Johns Hopkins University 1949 Feb p 28. 1950 May p 28, 1952 June p 45 47 49 52 1953 Aug p 40, 1957 Feb p 118, Mar p 92 Dec p 50, 1958 Apr p 106, Aug p 89 Sept p 141, 1962 Mar p 60 Dec p 137 83 86 1963 Mar p 91, Apr p 114, Oct p 47, 1964 Jan p 108 116 73 Feb p 96 97 100 Mar p 113 39, May p 55. Nov p 111 117. Dec p 48 1965 July p 53 77. Oct p 86 1966 Aug. p 73 1970 July p 106 111, Nov p 86, 1971 Aug. p 20 Johns Hopkins University Applied Physics Laboratory 1949 May p 38 1963 May p 94 Johns Hopkins University Medical School 1950 Feb p 27 1962 Aug. p 35 1971 Apr p 110. 1977 Mar p 45 Apr p 47 Johns J E. 1969 June p 107 Johnsen Kjell 1966 Nov p 115 1973 Nov Johnson Adelaide M 1954 June p 50 Johnson Alan W 1955 Sept p 76 Johnson B A 1952 Apr p 50 Johnson C H 1974 July p 82 Johnson Carroll 1972 Apr p 67 Johnson D L 1970 Oct p 60 Johnson Donald 4 1968 May p 111 Johnson Donald C 1976 Oct p 60 Johnson Donald E 1961 Oct p 67 Johnson Douglas W 1960 Aug p 81 Johnson Edward 1977 Aug. p 117 Johnson Edwin C 1950 Jan p 25 Mar p 24 Aug p 28 Johnson Enc A 1965 Mar p 28 Johnson Francis S 1964 Apr p 75 Johnson Frank H 1954 Sept p 66 1958 Oct p 43 1970 Apr p 90 1977 June p 42 Johnson Franklin M 1975 Aug p 59 Johnson Frederick 1977 Mar p 122 Johnson Gaylord 1949 Dec p 33 Johnson George 1972 Jug p 104 Johnson Gerald W. 1960 Sept p. 106 Johnson Harold L. 1952 Mar p 58 1953 June p 64 1961 June p 116 1965 Aug p 29, Oct p 42 1966 Dec p 46 1968 Aug p 59 65 1963 Jan p 32

Johnson Harwick, 1977 Sept p 64 Johnson, Herbert F, 1974 May p 103 Johnson Hiram 1950 Nov p 11 Johnson, Howard W., 1969 June p. 54, July p 50 Johnson Hugh M, 1955 May p 47, 1959 Dec p 96, 1964 Nov p 45, 1971 Dec p 25 Johnson Irving S 1964 May p 93 Johnson, J B, 1950 Oct p 34 Johnson J W , 1960 Aug. p 84 Johnson, James D, 1977 Nov p 135 Johnson Jesse C, 1950 Oct p 25 Johnson, Jotham, 1954 Dec p 73, 1957 Oct p 58, 1958 May p 111 Johnson Kenneth A, 1976 July p 60, Nov Johnson, Louis A., 1949 July p 28, 1950 July p 26, 1975 Oct p 113 Johnson, Louise N., 1965 July p. 48, 1966 Nov p 84, 88 Johnson Lyndon B, 1964 Feb p 66, June p 54, Oct p 57, Dec p 60, 1965 Apr p 53 - 54 56, Sept p 138, 187 1966 July p 50, Nov p 64, 1967 Jan p 54, Apr p 48, June p 19, 26, July p 40, 1968 Apr p 23, Aug. p 42, 1969 Apr p 15, 20, Aug p 18, 21, 24, Sept p 226, 1970 Feb p 42, May p 24. June p 22 23, Nov p 42, 1971 Jan p 44, Apr p 20, 1972 Nov p 17, 1973 Feb p 20, Mar p 44, July p 20, 1974 Sept p 168, 1976 Sept p 38 172, Dec p 25, 1977 Nov p 43, 44, 1964 Oct p 56 Johnson VI. H., 1969 Feb p 63 Johnson Martin W., 1951 Aug. p. 24, 26, 1962 Aug. p 44 Johnson, Marvin J. 1932 Apr p 56 Johnson Maynard, 1954 Apr p 35 Johnson, Michael S., 1975 Aug. p. 55 Johnson, Montgomery, 1972 Nov p 105 106 Johnson, Philip A., 1954 Feb p 28 Johnson, Robert L, 1958 Dec p 26 1969 July p 32 Johnson Robert T, 1969 Dec p 31, 1974 Jan p 61 63 Johnson Samuel 1950 Dec p 19, 1951 Feb p 60, June p 368, 1958 June p 74, 1959 Nov p 167, 1963 July p 68, 1967 Aug. p 44 Johnson, Sheila K., 1971 Mar. p. 48 Johnson Thomas H 1949 Mar p 33, 1951 May p 28 Johnson Torrence V. 1970 Aug. p 46, 1975 Jan p 27 Johnson, V. A. 1969 May p. 24 Johnson Virginia E., 1966 June p 54 Johnson W C 1954 Dec p 52 Johnson William, 1973 Aug. p 97 Johnsson, Gunnar 1975 June p 76 Johnston Harold S 1953 May p 32 Johnston James W Jr. 1964 Feb p 47, 48, 1971 Aug. p 46 Johnston K J 1978 June p 91 Johnston L. M., 1949 Nov p 51 Johnston M. J. S. 1975 May p 20 Johnston Munel 1956 Mar p 34 Johnston R L 1957 Apr p 55 Johnston William A., 1951 Jan. p. 14 Johnston William G 1961 Oct p 111 112 Joint Oceanographic Institutions for Deep Earth Sampling (JOIDES), 1978 May p. 53 Jol et Louis 1952 Mar p 23 Johot Pierre 1974 Dec p 71 Johot Cune Frederic, 1949 Jan p 28 Apr p 25 Nov p 42, 1950 Apr p 44 1951 Oct p 40 1955 Feb p 54 1959 Sept p 55 Dec p 10 1967 1pr p 61 Nov p 2 Julia Cura france 1949 Nov. p. 42, 1920 Apr.

Jacobi, Karl G, 1958 Sept p 82, 1968 June p 39, 1977 July p 125, 130 Jacobi, Moritz H, 1969 May p 63 Jacobowitz, David, 1974 June p 58 Jacobs, George, 1961 Apr p 75 Jacobs, I S, 1969 June p 38 Jacobs, Jane, 1965 Sept p 196 Jacobs, Joseph, 1956 Aug p 44 Jacobs, Patricia A, 1961 Nov p 73, 1963 July Jacobs, R B, 1965 June p 101 Jacobs, S, 1973 Feb p 89 Jacobs, W A, 1955 Jan p 56 Jacobsen, Carlyle, 1948 Oct p 37, 1955 Feb p 70, 72 Jacobsen, E H, 1963 June p 67 Jacobsen, Erik, 1949 May p 29 Jacobsen, Thorkild, 1948 June p 45, 1951 Nov p 54, 1960 Sept p 162 Jacobsohn, Dora, 1966 Apr p 86 Jacobson, Allan L, 1963 Feb p 55, 57 Jacobson, Antone G, 1978 June p 106 Jacobson, Carl-Olof, 1978 June p 110 Jacobson, Ethel, 1973 July p 59 Jacobson, Helmut, 1973 Nov p 96 Jacobson, Homer, 1959 June p 105, 1964 Sept p 156 Jacobson, Lenore, 1967 Nov p 54 Jacobson, Leon O, 1959 Sept p 121 Jacobson, Marcus, 1974 May p 44 Jacobson, Martin, 1963 May p 101, 102, 1970 Apr p 48, 1974 July p 28 Jacobson, Oscar, 1950 Sept p 50 Jacquard, Joseph M, 1952 Apr p 72, 1972 Aug p 76-80 Jacques, J S, 1957 Sept p 208 Jacques, R, 1962 Aug p 113 Jacquinot, Pierre, 1968 Sept p 80 Jacquiot, Clement, 1959 July p 118 Jacus, M A, 1949 June p 22, 24 Jaffe, Haym, 1949 Dec p 56 Jaffe, Laurinda, 1977 Nov p 131 Jaffe, Lionel, 1977 Nov p 133 Jaffe, Walter, 1975 Aug p 26, 33 Jagendorf, Andre T, 1978 Mar p 113, 121 Jager, G de, 1968 Dec p 40 Jaggar, T A, 1951 Nov p 52 Jahn, Albert, 1961 Dec p 138 Jain, A L, 1964 June p 72 Jain, Satish, 1976 June p 25 Jakobson, Roman, 1972 Sept p 35, 1973 Dec p 113 Jakus, Marie A, 1958 Nov p 71, 1961 May p 127, 128 Jalavisto, Eeva, 1950 Sept p 50, 1953 Apr James, A T, 1953 Sept p 82, 1958 Apr p 52, 1961 Oct p 58, 62 James, Francis, 1972 Dec p 14 James, George, 1965 Jan p 20, Apr p 58 James, Henry, 1951 June p 16 James I, King, 1949 July p 12, 1953 June p 26, 1959 Jan p 125, 128, Dec p 122, 1967 Feb p 27, 1969 July p 40, 46, 1970 Oct p 114, 1977 Nov p 140 James II, King, 1969 July p 42 James, Ioan, 1966 May p 118 James, J N, 1966 Mar p 42, Apr p 57, 60, May p 62, 1969 Mar p 80 James, Jesse, 1956 Nov p 56, 1965 Feb p 54 James, Paul E, 1967 Feb p 60 James, R A, 1950 Apr p 47 James, Reginald, 1968 July p 62 James, Stanley, 1963 Dec p 100 James, Thomas N, 1967 Mar p 36 James VI, King, 1961 Feb p , 1969 July p 42,

James, William, 1949 July p 51, 1957 Jan p 80, 1960 Mar p 146, 1963 Apr p 128, 1964 Apr p 32, 37, Oct p 99, 1966 Dec p 80, 81, 1967 Jan p 108, 1968 Feb p 96, 1971 Aug p 82, 1972 Sept p 35, 36, 1977 May p 120 122, Jameson, Dorothea, 1959 May p 87 Jameson, Michael H, 1961 Mar p 111, 1966 Feb p 54 Jamieson, Alexander, 1971 Oct p 101 Jamieson, James D, 1969 Jan p 41, 1975 Apr p 44 Jamieson, John C, 1965 Oct p 32,33 Jammet, Henri, 1955 Oct p 40 Jamukha, 1963 Aug p 58, 60 62 Jancke, W, 1954 July p 51, 55 Janes, G Sargent, 1977 Feb p 93 Janeway, Robert, 1950 Feb p 18 Janick, Jules, 1976 Sept p 75 Janke, J, 1955 Mar p 53 Jankovic, Branislav D, 1974 Nov p 60 Jannasch, Holger W, 1973 Apr p 45, 1977 June p 42 Janoff, Aaron, 1967 Nov p 67 Janossy, L, 1949 Mar p 37, Oct p 13, 14 Janowitz, Morris, 1967 May p 54 Jansen, Eugene F, 1961 Feb p 90, 1964 Dec p 75, 1974 July p 77 Jansen, Jan, 1974 Jan p 38, 1975 Jan p 60 Jansen, Laurens, 1966 Oct p 64 Jansen, Zacharias, 1956 Sept p 232 Jansky, Karl G, 1949 Sept p 35 38, 1950 Feb p 37, 1953 Jan p 17, 1955 Mar p 41, 1956 Sept p 205, 206, Oct p 56, 1957 Nov p 48, 1961 Oct p 95, 1962 Mar p 41, 1963 June p 97, Aug p 29, 1964 Aug p 13, 1967 Dec Janssen, Michael A, 1975 Sept p 77 Janssen, Tepano, 1949 Feb p 53 Jansson, Erik V, 1973 July p 26 Jansson, Gunnar, 1975 June p 86 Janzen, Daniel H., 1973 Dec p 60, 61 Japan, Bank of, 1970 Mar p 33 Japan Broadcasting Corporation, 1977 May p 44 Japan Electron Optics Company, 1970 Aug Japan Monkey Center, 1976 Oct p 97 Japanese Committee for Natality Problems, 1974 Sept p 117 Japanese Economic Planning Agency, 1970 Mar p 34 Japanese Hydrographic Office, 1961 Apr Japanese Institute of Physical and Chemical Research, 1965 Oct p 18 Japanese Institute of Public Health, 1971 July Japanese Institute of Radiation Breeding, 1971 Jan p 86, 88, 95 Japanese Ministry of Finance, 1970 Mar p 34 Japanese Ministry of Health Institute of Population Problems, 1956 Mar p 68 Japanese Ministry of International Trade and Industry, 1970 Mar p 34 Japanese Misaki Marine Biological Station, 1977 Apr p 86 Japanese National Institute of Genetics 1970 Japanese National Railroad, 1971 Nov p 22 Japanese Population Problems Council, 1971 July p 44 Japanese Second Red Cross Hospital Kyoto 1965 Oct p 18 Jaquet, A., 1960 Jan p 140 Jarl, Birger, 1965 Sept p 107 Jarmie, Nelson, 1977 Apr p 127

Jarnum, S A, 1959 Dec p 140 Jarosch, Robert, 1975 Aug p 41 Jarosewich, Eugene, 1972 June p 44 Jarrell-Ash Company, 1963 July p 45 Jarvik, Lissy F, 1965 Aug p 46, 1970 Oct Jaseja, T S, 1963 July p 42 Jasper, Herbert H, 1948 Oct p 27, 1959 Aug p 95, 96, 1970 Mar p 66, 1973 July p 98 Jastrow, Joseph, 1971 Dec p 66 Jastrow, R , 1958 Apr p 50 Jaussen, Tepano, Bishop, 1958 June p 63, 64 Javan, Alı, 1961 Mar p 91, June p 54, 58, 1963 July p 42, 44, 1964 Apr p 49, 1967 Sept p 86, 211, 1973 Dec p 79, 80, 85 Javits, Jacob K , 1949 June p 14, 1975 Aug Javreaux, Olga E, 1976 Dec p 42, 47 Jazy, Michel, 1976 June p 111, 114 Jeanloz, Roger W, 1969 May p 97 Jeans, James, Sir, 1949 Jan p 38, Aug p 51, Oct p 42, 43, Dec p 52, 1950 May p 51, Sept p 24, 1952 Feb p 45, Oct p 55, Nov p 49, 1954 Mar p 61, 1955 June p 63, Oct p 101, 1956 Sept p 152, Nov p 104, 1964 Sept p 129, 1967 Mar p 63, 1968 June p 39, 1970 June p 35, 1978 Apr p 110 Jecker, Jon, 1962 Oct p 95 Jeener, R, 1953 Feb p 55, 1955 July p 78 Jeffcoate, T N A, 1968 Nov p 50 Jefferies, John T, 1973 Oct p 75 Jeffers, William M, 1956 Nov p 83 Jefferson, Eurlys, 1955 Dec p 44 Jefferson Medical College, 1965 July p 99 Jefferson, Thomas, 1951 Sept p 43, 1954 Oct p 73, 1956 May p 88, 1957 Nov p 47, 1958 July p 33, Sept p 170, 1960 Feb p 38, Oct p 163, 1965 Sept p 64, 158, 1967 June p 20, 1968 June p 53, 54, 1970 July p 18, 1976 Jan p 117, July p 118 Jefferts, Keith B, 1970 June p 49, 1974 May p 112, 113 Jeffress, L A, 1973 Oct p 97 Jeffrey, Dennis, 1976 Jan p 73 Jeffrey, Lela M, 1970 Dec p 20 Jeffreys, Harold, Sir, 1952 Oct p 55, 1953 Sept p 132, 1955 Sept p 57-59, 61, 1967 Oct p 71, 1968 Apr p 54, 1969 Nov p 105, 1971 Dec p 83, 1973 Mar p 26, 1975 Feb p 94, Jeffries, Carson D, 1963 Mar p 74, 1966 July p 72, 74, 1976 June p 37 Jeffries, John, 1951 Dec p 68 Jeffries, Zay, 1953 Aug p 41, 1955 Nov p 45 Jefimenko, Oleg 1972 Mar p 57 Jegla, Thomas C, 1971 Apr p 77 Jehl, Francis, 1959 Nov p 106 Jelinek, J E, 1972 Nov p 54 Jelley, J, 1963 June p 99 Jelley, N A 1970 Dec p 41, 1978 June p 67 Jellinek, E M. 1952 June p 40 Jellinek, Stefan, 1952 Jan p 35 Jen, C K 1957 Mar p 96, 102 Jencks Christopher, 1974 Aug p 56 Jenkin, David S. 1957 Mar p 37 Jenkin, Fleeming, 1959 May p 60 Jenkins Burton C, 1974 Aug p 74 Jenkins Edward B. 1969 June p 101, 1971 Dec p 25, 29, 1974 May p 113 1978 Jan p 77 Jenkins, Thomas L, 1965 Oct p 38 Jenkins, Vincent E. 1974 June p 21 Jenks, James L Jr 1952 Oct p 68 70 Jenner, E. L., 1968 Sept p 175 Jenner, Edward 1951 May p 43 50, 1957 Oct p 105, 1961 Jan p 58, May p 51, 1962 Nov p 48, 1965 Aug. p 89, 1967 Jun p 111, 1972 Feb p 99, 1973 Sept p 105, 106, 1976 Jun

Kamenkovitch, V. M., 1962 Sept. p. 126. Kamentsky, Louis A., 1976 Mar. p. 111. Kamerlingh Onnes, Heike, 1949 June p. 33, 37; 1950 Sept. p. 34; 1957 Nov. p. 92; 1958 June p. 30; 1960 Mar. p. 74, 77; 1961 July p. 125, 126; 1962 June p. 60; 1965 Feb. p. 21; Apr. p. 119; Oct. p. 57; 1966 May p. 30; Oct. p. 64; 1967 Mar. p. 115; Nov. p. 26; 1971 Mar. p. 75; Apr. p. 83; Nov. p. 22, 26; 1972 Apr. p. 89; Dec. p. 41. Kamerlingh Onnes Laboratory, 1958 June p. 31. Kamil, Alan C., 1977 June p. 82. Kaminow, Ivan P., 1968 June p. 19. Kamiya, Nobuo, 1961 Sept. p. 184, 186; 1962 Oct. p. 107. Kamm, Oliver, 1955 Jan. p. 57. Kammer, Ann E., 1973 Apr. p. 100. Kamp, Peter van de, 1963 June p. 73; 1969 June p. 58; 1975 May p. 80. Kan, L. S., 1971 Apr. p. 84. Kanamori, Hiroo, 1977 Dec. p. 74. Kanda; Siguru, 1977 May p. 83. Kandatsu, Makoto, 1969 June p. 58. Kandel, Eric R., 1967 May p. 47; 1970 July p. 57; 1971 Feb. p. 69. Kandinsky, Wassily, 1970 Nov. p. 101; 1974 July p. 91, 103. Kandutsch, Andrew A., 1972 June p. 34. Kane, Elisha K., 1968 Feb. p. 108. Kane, H. H., 1971 Jan. p. 102. Kane, Jasper H., 1952 Apr. p. 56. Kane, K. Kent, 1956 May p. 102. Kaner, E. A., 1973 Jan. p. 97. Kanfer, Julian, 1973 Aug. p. 91. Kanizsa, Gaetano, 1974 Jan. p. 82; Apr. p. 91; 1975 Aug. p. 69. Kankel, Douglas R., 1973 Dec. p. 36, 37. Kankeleit, Egbert, 1965 Feb. p. 51. Kannel, William B., 1962 July p. 44; 1971 May Kanno, Yoshinoba, 1970 May p. 79, 84. Kanopka, Allan, 1977 Aug. p. 96. Kansas State University, 1958 July p. 52; 1964 Nov. p. 119. Kant, Immanuel, 1949 Dec. p. 29; 1950 Feb. p. 33; 1952 Nov. p. 78; 1953 Feb. p. 80; July p. 66; 1954 Apr. p. 84,87, 91; June p. 79; July p. 30; Nov. p. 86; 1956 Feb. p. 31; June p. 78; Sept. p. 79; 1958 Mar. p. 94, 100; 1960 June p. 129; 1967 July p. 51, 52; 1970 June p. 26; 1971 Aug. p. 92; 1972 Apr. p. 47; Sept. p. 50; 1975 Sept. p. 33; 1976 Aug. p. 90-94, 97-99. Kantor, Ferenc, 1968 July p. 50. Kantorovich, Leonid V., 1975 Dec. p. 48. Kantrowitz, Adrian, 1962 Oct. p. 48. Kantrowitz, Arthur, 1953 May p. 31; 1957 Aug. p. 88; 1967 Mar. p. 120; 1970 July p. 52; 1977 Dec. p. 86. Kanwisher, John W., 1956 Mar. p. 57; 1973 Feb. p. 42. Kao, C. Y., 1966 Mar. p. 78; 1967 Aug. p. 67. Kapany, Narinder S., 1960 Nov. p. 72; 1961 Dec. p. 81; 1963 July p. 42. Kapitza, Peter L., 1949 June p. 32, 34; Sept. p. 29; Nov. p. 27, 43; 1951 May p. 33; 1957 Feb. p. 57; 1958 Feb. p. 30; June p. 30-35; 1960 Jan p 72; Nov. p. 144, 147; 1963 Mar. p. 107, 110, 112, 116; 1965 Apr. p. 71, 78; 1967 Dec p 63 Kaplan, Abraham, 1956 Jan. p. 30. Kaplan, Bert, 1951 June p. 38; 1953 Dec. p. 32. Kaplan, Daniel E., 1968 Apr. p. 40, Kaplan, Fred M. 1978 May p. 44. Kaplan, G. E., 1955 Oct. p. 36. Kaplan, Henry S., 1974 Apr. p. 45. Kaplan, Ian, 1972 June p. 46. Kaplan, Ira T., 1968 Aug. p. 94.

Kaplan, Isaac R., 1972 Oct. p. 84, 85. Kaplan, Jan R., 1971 May p. 42. Kaplan, Joseph, 1954 Apr. p. 45; 1966 Mar. Kaplan, Leo, 1949 Oct. p. 53. Kaplan, Lewis D., 1963 July p. 84; Aug. p. 52; 1965 Aug. p. 26. Kaplan, Martin M., 1977 Dec. p. 88, 94, 101. Kaplan, Melvin, 1965 Dec. p. 70. Kaplan, Nathan O., 1978 May p. 92. Kaplan, Norman, 1969 June p. 27; 1970 Feb. p. 13. Kaplan, Paul, 1977 July p. 46. Kaplan, Roberta, 1975 Apr. p. 56. Kaplan, S., 1965 Aug. p. 43. Kaplan, T. A., 1967 Sept. p. 230. Kaplan, William D., 1973 Dec. p. 24, 32. Kaplon, Morton F., 1950 Mar. p. 26. Kappas, Attallah, 1975 June p. 22; 1976 Mar. Kappers, Johannes A., 1965 July p. 53-55, 58. Kapteyn, Johannes C., 1949 Dec. p. 16; 1950 Feb. p. 32, 33; Sept. p. 24; 1954 July p. 30, 33; 1963 June p. 95, 97. Karabacek, Hans, 1955 Nov. p. 45. Karakashian, Stephen, 1971 Aug. p. 50. Karas, Joseph S., 1965 June p. 58. Karasek, F. W., 1969 June p. 112. Karasev, V. V., 1970 Nov. p. 53, 60. Karazin, V., 1975 Nov. p. 102. Kardashev, N., 1970 Dec. p. 24. Karelitz, Samuel, 1964 Oct. p. 78; 1974 Mar. Karl, Robert R., 1977 Feb. p. 95. Karlberg, Petter, 1963 Oct. p. 28, 31-33, 35. Karlgren, Bernhard, 1973 Feb. p. 53. Karlin, Arthur, 1977 Feb. p. 111, 113. Karlin, J. E., 1957 June p. 76. Karlinsky, Simon, 1974 Nov. p. 54. Karlsefni, Thorfinn, 1967 May p. 77. Karlson, Karl E., 1954 Aug. p. 25. Karlson, Peter, 1963 Nov. p. 118; 1966 May p. 52; 1976 Feb. p. 34. Karlsson, Jan, 1972 Mar. p. 90. Kármán, Theodor van, 1965 Mar. p. 106. Kármán, Theodor von, 1952 June p. 28; 1966 June p. 85, 87; 1967 Jan. p. 66; Sept. p. 183, 184. Karnaukhov, V. A., 1978 June p. 66. Karnovsky, Ann, 1974 Nov. p. 50. Karnovsky, Manfred L., 1965 Oct. p. 82; 1976 Aug. p. 28. Karnovsky, Morris J., 1962 Aug. p. 108; 1976 May p. 38; 1978 May p. 144, 145. Karolus, A., 1955 Aug. p. 64, 66. Karp, Richard M., 1978 Jan. p. 107-109. Karp, S. A., 1959 Feb. p. 51. Karpechenko, G. D., 1951 Apr. p. 56. Karpenko, A. G., 1955 Oct. p. 45. Karplus, Robert, 1954 Dec. p. 92. Karr, Arthur, 1975 Jan. p. 88. Karr, Dale, 1975 Jan. p. 88. Karrer, Jakob, 1948 May p. 29. Karrer, Paul. 1951 Mar p. 38: 1962 Apr. p. 102; 1967 June p. 72; Nov p. 27. Karsten, Frank M., 1955 Oct. p. 45. Kartagener, Manes, 1976 Sept. p. 68. Karten, Harvey, 1968 June p. 74. Kartha, Gopinath, 1961 May p. 121; 1967 Mar. p. 49. Kasac, Manone, 1975 Nov. p. 40. Kasamatsu, A., 1972 Feb. p. 85. Kasang, G., 1974 July p. 29. Kashy, Edwin, 1978 June p. 67. Kasiski, Friedrich, 1966 July p. 41 Kasner, Edward, 1953 Feb. p. 84. Kasper, Jetome V. V., 1965 Apr., p. 58; 1966

Apr. p. 32, 36-38. Kasper, John S., 1961 Oct. p. 110; 1966 July p. 101, 107. Kass, Edward H., 1978 Feb. p. 81. Kassel, Louis S., 1964 July p. 105. Kassel, Robert L., 1969 Oct. p. 50; 1977 May Kassowitz, M., 1970 Dec. p. 77. Kast, W., 1964 Aug. p. 79. Kasten, Paul R., 1968 June p. 44. Kastenbaum, Robert, 1968 Oct. p. 60. Kastenbein, Wolfgang, 1964 June p. 105, 108-110. Kastler, Alfred, 1960 Oct. p. 73, 76; 1966 Dec. p. 56; 1967 Nov. p. 28. Kastner, Marc A., 1977 May p. 40, 41. Katagiri, Tameyoshi, 1973 Nov. p. 50. Kataja, Eva, 1966 Apr. p. 106. Katanga, Union Miniere de Haute, 1949 Sept. Katchalsky, Ephraim, 1971 Mar. p. 26, 27. Katcher, David A., 1948 May p. 33. Kates, Joseph, 1972 Jan. p. 29. Kates, Morris, 1967 Jan. p. 37. Kato, K., 1961 Mar. p. 69. Katsoyannis, Panayotis G., 1953 Dec. p. 52; 1963 Dec. p. 72; 1966 Apr. p. 50; 1968 Mar. p. 69, 72, 74. Kattamis, T. Z., 1974 Dec. p. 92. Kattwinkel, 1954 Jan. p. 66, 69. Katz, Bernhard, Sir, 1951 Apr. p. 67; 1958 Dec. p. 87, 88; 1960 Aug. p. 99, 102; Oct. p. 119; 1961 Sept. p. 209, 224, 226; Nov. p. 132; 1964 Sept. p. 151; 1965 Jan. p. 56, 60; June p. 79; 1966 Mar. p. 74, 81; 1970 Apr. p. 92; July p. 59; Dec. p. 38; 1974 June p. 60; 1975 Oct. p. 29, 32; 1977 Feb. p. 109, 112-114. Katz, David, 1963 Jan. p. 111. Katz, Jonathan, 1977 Oct. p. 50. Katz, Joseph L., 1960 July p. 106; 1972 Dec. p. 69. Katz, Louis N., 1974 Aug. p. 91; 1977 Feb. p. 78. Katz, Milton, 1970 Feb. p. 13; 1971 Feb. p. 45; Sept. p. 191. Katz, Thomas J., 1972 Aug. p. 38. Katzev, Michael L., 1971 Aug. p. 27. Katzman, Martin, 1972 July p. 84. Kauer, John S., 1978 Feb. p. 96, 98. Kauertz, E., 1969 Feb. p. 95. Kaufer, Herbert, 1978 Jan. p. 44. Kaulman, Herbert E., 1962 Apr. p. 80. Kaufman, Irving R., 1951 May p. 34. Kaufman, Leo, 1973 May p. 44. Kaufman, Lloyd, 1971 June p. 42, 43. Kaufman, Peter B., 1975 Apr. p. 81, 93. Kaufman, Seymour, 1964 Dec. p. 71. Kaufman, Sheldon, 1954 Apr. p. 40. Kaufmann, Berwind P., 1950 Sept. p. 57; 1951 Oct. p. 24; 1959 Sept. p. 98. Kaula, William M., 1961 Nov. p. 82; 1967 Oct. p. 75, 76; 1970 Mar. p. 38; 1972 Apr. p. 50; 1975 Sept. p. 159. Kautsky, Hans, 1974 Dec. p. 79. Kawaguti, S., 1971 Jan. p. 65. Kawamura, K., 1961 Sept. p. 118. Kawamura, N., 1961 Sept. p. 112. Kawamura, Shunzo, 1976 Oct. p. 104. Kay, Alan C., 1977 Sept. p. 232. Kay, Garth. 1971 Mar. p. 26. Kay, Lois M., 1951 Aug. p. 57; 1974 July p. 75, 77, 84. Kay, Nai, 1960 Sept. p. 86. Kay, Naoka, 1960 Sept. p. 86. Kay, Ti. 1960 Sept. p. 86. Kaye, Albert L., 1964 May p. 70. Kaysen, Carl, 1978 Feb. p. 76.

p 44, 1951 Oct p 46, 1958 Feb p 78, 1959 Sept p 85, 1967 Apr p 68, Nov p 27 Jolles, Pierre, 1966 Nov p 78 Jolly, Clifford J , 1970 Jan p 81, 82 Joly, Jean-Gil, 1976 Mar p 30 Joly, John, 1952 Oct p 79, 1956 May p 42, 1963 Mar p 134, 1970 Nov p 104 Jonas, John J, 1975 Apr p 121 Jones, A H M, 1974 Dec p 124 Jones and Laughlin Steel Corporation, 1963 Sept p 129 Jones, Bence, 1953 Oct p 98 Jones, C M, 1967 June p 110 Jones, Charles, 1972 Aug p 16 Jones, D E, 1963 July p 84 Jones, Daniel D, 1977 Aug p 94 Jones, David E H, 1970 May p 58 Jones, David S, 1965 June p 57 Jones, Donald, 1951 Aug p 41, 42, 45 Jones, F Wood, 1956 June p 97, 98, 100 Jones, Francis D, 1952 Mar p 42 Jones, Frederic W, 1962 Dec p 56, 61 Jones, Gavin, 1968 Dec p 50 Jones, George, 1975 Nov p 48, 50 Jones, Hardin B, 1963 May p 75 Jones, Harold S, 1961 Apr p 67, 68 Jones, Henry B, 1970 Aug p 35-37 Jones, Herbert S, Sir, 1949 Aug p 25 Jones, Inigo, 1953 June p 25 Jones, J J, 1961 Jan p 51 Jones, J O, 1971 Apr p 88 Jones, Jack C, 1975 July p 105, 1978 June p 138 Jones, Janet L, 1964 Mar p 45 Jones, John P, 1948 June p 52, 1976 June Jones, Kenneth, 1973 Aug p 29 Jones, Kenneth J, 1977 Jan p 94 Jones, Kenneth L, 1978 Mar p 76 Jones, Le Roi, 1971 Dec p 13 Jones, M G K, 1975 Jan p 87 Jones, Mary C, 1967 Mar p 82 Jones, Maxwell, 1971 Mar p 35 Jones, Maxwell S, 1969 Feb p 71 Jones, Morris, 1955 May p 82, 84, 85 Jones, Oliver W, 1963 Mar p 86, 1971 Nov Jones, Patricia, 1976 Mar p 115 Jones, R E, 1968 Aug p 92 Jones, Rhys, 1966 Mar p 93 Jones, Robert A, 1973 Mar p 97 Jones, Thomas D, 1959 Jan p 62 Jones, W R, 1972 Oct p 54 Jones, William A , 1963 May p 101, 1964 Aug p 24, 1970 Apr p 48 Jones, William, Sir, 1958 Oct p 66, 67 Jonkers, C O, 1965 Apr p 122 Jonson, Ben, 1952 Oct p 72, 1956 Sept p 82, 1958 June p 74 Jordan, C, 1964 Sept p 47, 49 Jordan Department of Antiquities, 1954 Apr p 77 Jordan, E B, 1948 June p 28 Jordan, George R, 1950 Jan p 27 Jordan, Julius, 1978 June p 50 Jordan, Karl, 1965 Dec p 51 Jordan, Pascual, 1950 Sept p 30, 42, 1954 May p 87, 1961 Dec p 91, 1967 Mar p 48 Jorgensen, J., 1953 Oct p 33 Jorgensen, Joseph G, 1971 May p 46, 1972 Jan Jorgensen, Svend, 1956 Mar p 37, 38 Jorpes, J E, 1951 Mar p 21 Jortner, Joshua, 1967 Feb p 79 Joseph, Alexander, 1958 Apr p 59 Joseph C Wilson Technology Center, 1977 May p 43

Joseph Forrestal Research Center, see Princeton University James Forrestal Research Center Joseph, Joachim, 1953 June p 35 Joseph Lucas Limited, 1973 Mar p 90 Joseph P Kennedy Jr Foundation, 1968 Sept Josephson, Brian D. 1965 June p 61, 1966 May p 30, 35-37, 39, 1970 Oct p 66, 1973 Dec p 50 Josephus, 1963 Oct p 97, 1965 July p 84, 86, 90, 1971 Nov p 78, 1973 Jan p 85 Joshua, King, 1954 Apr p 76, 77, 82 Josiah, King, 1973 Jan p 85 Josie, G H, 1962 July p 41 Josse, John, 1968 Oct p 69 Josselyn, John, 1948 June p 50 Jost, Alfred, 1963 July p Jost, Ludwig, 1975 July p 94 Jost, Michael, 1977 Aug p 94 Jost, Patricia C, 1974 Mar p 32 Joule, James P., 1949 June p 33, 1954 Sept p 60, 61, 1955 June p 62, 1958 Mar p 96, Apr p 56, 61, 1960 Oct p 164, 168, 1967 Sept p 181, 1968 Jan p 117 Jourdain, P E B, 1956 Apr p 124 Jouret, C, 1972 Oct p 90 Jouvet, Michel, 1959 Aug p 95, 1976 Aug p 29 Jovin, Thomas, 1968 Oct p 75 Joy, Alfred H, 1962 Apr p 58, 60, 1964 Aug p 14, 1967 Aug p 30, 32, 34, 36 Joy, H, 1959 July p 53 Joyce, James, 1964 June p 55, 1967 Jan p 98, 1973 May p 89, 1976 Nov p 49 Juarez, Benito P, 1966 Oct p 25 Jubal, 1967 Dec p 96 Juchau, Mont, 1977 Feb p 83 Judas, 1977 Nov p 140 Judd, Burke H , 1973 Dec p 27 Judd, Charles, 1959 Jan p 122, 130 Judd, Neil M, 1952 Jan p 56 Judson, Charles L, 1968 Apr p 116 Judson, Sheldon, 1964 Oct p 58 Ju-kang, Woo, 1966 Nov p 47 Jukes, T H, 1950 June p 29, 1952 Apr p 53 Julesz, Bela, 1966 Sept p 161, 1970 Mar p 62, 1972 Aug p 86, 87, Sept p 37, 1973 Mar p 74, 75, Nov p 76, 1975 Apr p 36, 1976 Mar p 81, 85, Apr p 52 Julian, Bruce 1973 Mar p 33 Julian, Desmond G 1968 July p 21 Julian, William H, 1971 Jan p 56, 1973 Feb p 102 Julien, Stanislas, 1949 May p 31 Julius, Michael, 1976 Mar p 115 Jullian, Camille, 1969 May p 50 Jumber, J., 1956 Aug p 54 Jump, E B, 1966 June p 100 Jung, Carl G, 1948 Nov p 17, 1949 May p 44-46, 1951 May p 60, 1972 Sept p 50, 93 Jung, H 1970 Aug p 76 Junge, C, 1957 Oct p 44 Junge, Christian E, 1971 Jan p 39-42 Junghans, Siegfried, 1963 Dec p 76, 79 81 Jurgen, Ronald K., 1975 Aug p 48 Jurgens, Raymond F, 1968 July p 28, 37 Jurine, Louis, 1950 Aug p 52 Just, Felix, 1965 Oct p 15 Just, Kurt 1959 July p 68 Justin, 1976 June p 100 Justinian, 1948 June p 45, 1950 Aug. p 50 Justinian the Great 1978 Jan p 111 Junia, John W., 1974 Nov p 69 Juveral, 1960 Mar p 119, 1971 June p 93 Juwaini, 1963 Aug. p 55

K

Ka-a, Pharaoh, 1957 July p 107 Kaas, J H, 1973 Aug p 43 Kaas, Jon H, 1974 May p 46 Kaback, H Ronald, 1975 Dec p 31, 32 37 Kaback, Ron, 1972 Feb p 37 Kabat, Elvin A, 1977 Jan p 52 Kac, Mark, 1975 Dec p 65 Kadenbach, Bernhard, 1970 Nov p 27 Kadıs, Solomon, 1969 Mar p 93 Kadomtsev, Boris B, 1967 July p 83 Kaempfer, Engelbert, 1967 Aug p 61 Kaempffert, Waldemar, 1954 Aug p 38 Kaesberg, Paul, 1958 July p 56 Kafig, Emanuel, 1956 Mar p 58 Kafka, Franz, 1949 May p 47, 1954 Nov p 96 Kafka, W A, 1974 July p 29 Kagan, I G, 1973 Dec p 56 Kagan, Jerome, 1974 Nov p 50 Kagawa, Yasuo, 1968 Feb p 38, 1978 Mar p 123 Kahan, Barry D, 1973 Jan p 24, 1974 Apr p 36 Kahn, David, 1966 July p 38 Kahn, Franz, 1955 Nov p 77 Kahn, Harold A, 1962 July p 44 Kahn, Herman, 1976 Oct p 57 Kahn, J R, 1959 Mar p 56 Kahn, Jhan, 1968 Mar p 97 Kahn, Richard H., 1961 Jan p 137 Kahng, Dawon, 1973 Aug p 50 Kain, John, 1965 Sept p 167 Kaira District Cooperative Milk Producers' Union Ltd, 1967 Dec p 122 Kaiser, A Dale, 1967 May p 87, 1968 Oct p 69, 1970 June p 39, 1975 July p 26, 1976 Dec p 108 Kaiser, Edgar, 1970 Apr p 17 Kaiser, Henry J., 1970 Apr p 17 Kaiser, Irwin H, 1959 Oct p 84 Kaiser, W., 1964 Apr p 45 Kaiser Wilhelm Institute 1948 July p 31 1957 Dec p 56, 1958 Feb p 77 Kaiser Wilhelm Society, 1949 Apr p 27 Kaiser, Wolfgang 1973 June p 60 Kaiser-Permanente, 1970 Apr p 15, 16 18, 19 23, 1973 Sept p 135, 171 Kaiser-Permante, 1963 Aug p 19, 26 Kaissling, K E 1974 July p 29 Kajubi, S 1972 Oct p 73, 75 Kakıuchi, Shiro, 1977 Aug p 111 Kaku Michio, 1978 Feb p 141 Kakutani, Shizuo, 1969 Mar p 70 71 Kalekar, Herman M., 1956 Dec p 136, 1958 July p 59, 1962 Apr p 104 1976 Apr p 44 Kalıl, Ronald E, 1974 Oct p 100 Kalin Theodore A 1950 Dec p 24 1952 Mar p 73 1955 July p 88 Kalinga Foundation 1958 Apr p 48 Kalish D 1963 Oct p 117 121 Kallinikos Mithradates 1956 July p 40 44 Kallman H 1953 Nov p 36 Kallmann Franz J 1962 Aug p 66 67 Kalme Charles I 1973 June p 92 93 98 101 Kalmijn Adrianus J. 1978 Mar p. 72-74 Kalmus, Hans 1953 July p 60 62 1955 Aug p 56 57 Kalmus P 1962 Aug p 36 Kaltenbach Jane C 1963 Nov p 118 Kaluza Th 1949 Mar p 54 Kaman Aircraft Corporation, 1960 Aug. p. 45 Kamen, Martin D 1948 Aug p 32 1953 Min p 39 1954 Feb p 76 1955 Sept p 72 1960 Nov p 116 1962 June p 92, 1969 July p 87, 1970 Sept p 113

Kerr, David N. S., 1968 Mar. p. 50. Kerr, Frank J., 1953 Dec. p. 46; 1956 Apr. p. 57; 1958 Jan. p. 46; 1959 Dec. p. 96; 1963 Jan. p. 75; 1964 Jan. p. 33, 36. Kerr, J. Austin, 1955 Mar. p. 63. Kerr, John, 1964 Apr. p. 38; 1968 June p. 19; 1973 June p. 45-47, 53, 55. Kerr, M. E., 1966 June p. 97. Kerr, Paul F., 1955 Oct. p. 37; 1964 Aug. p. 31; 1965 Dec. p. 42. Kerr, Robert S., 1951 Sept. p. 49. Kerr, Roy P., 1972 May p. 45, 46. Kerr, Warwick E., 1967 Apr. p. 100-102. Kerridge, Eric, 1977 Nov. p. 151. Kerst, Donald W., 1948 June p. 29; 1959 Jan. p. 69; 1967 July p. 88. Kersten, W., 1974 Aug. p. 84, 86. Kerstetter, James, 1968 Oct. p. 46. Kertesz, Dennis J., 1968 May p. 112. Kerwin, E. M. Jr., 1969 Jan. p. 102. Keserstein, Ludwig, 1976 Nov. p. 100. Kessner, David M., 1973 Sept. p. 65. Kestenbaum, Clarice, 1965 Aug. p. 46. Ketelle, B. H., 1950 Apr. p. 43. Kettani, M. Ali, 1973 Apr. p. 60. Kettlewell, H. B. D., 1975 Jan. p. 90, 95. Kety, Seymour S., 1973 Sept. p. 123. Keuffel, Jack W., 1962 Aug. p. 40, 41; 1966 Feb. p. 48; 1971 Oct. p. 42. Keverne, E. B., 1971 Sept. p. 76. Key, Francis S., 1968 Dec. p. 95. Key, Joe L., 1968 July p. 81. Key, John, 1963 Sept. p. 88. Keydata Corporation, 1966 Sept. p. 199. Keyes, Robert J., 1962 Sept. p. 104; 1963 July p. 38. Keynes, John M., Lord, 1952 Sept. p. 53, 55; 1953 Sept. p. 130, 132, 136; 1954 Oct. p. 34; 1955 Dec. p. 80; 1964 Sept. p. 132, 133; 1965 Apr. p. 25; 1977 Dec. p. 84. Keynes, Richard D., 1952 Nov. p. 58; 1958 Dec. p. 122; 1959 Jan. p. 112; 1960 Oct. p. 119, 123, 124; 1962 Oct. p. 107; 1966 Mar. p. 78. Keys, Ancel B., 1956 Feb. p. 56; 1966 Aug. p. 54, 56; 1971 Oct. p. 14, 15; 1977 Dec. p. 86. Keystone Steam Electric Station, 1971 May Kezdy, F. J., 1964 Dec. p. 73. Khafra, Pharaoh, 1957 July p. 107. Khambata, A. J., 1972 Dec. p. 14. Khan, Fazlur R., 1974 Feb. p. 102. Khan, Genghis, see: Genghis Khan. Khan Krum, 1969 Aug. p. 79. Khan, Kublai, see: Kublai Khan. Khare, Vijay, 1977 Apr. p. 126, 127. Khayym, Omar, see: Omar Khayym. Khilko, S. D., 1977 Apr. p. 38. Khoklov, Rem, 1967 May p. 56. Kholopov, P., 1959 July p. 48. Khoo, Uheng, 1971 Aug. p. 37. Khorana, H. Gobind, 1964 June p. 56; 1965 June p. 57; 1966 Oct. p. 57, 58; 1967 Apr. p. 49; May p. 94; 1968 Jan. p. 40; Dec. p. 48; 1970 July p. 49; 1975 July p. 26. Khosran II, 1961 June p. 133. Khoury, George, 1978 Feb. p. 121. Khromova, E. N., 1970 Nov. p. 60. Khrunichev, Mikhail V., 1961 June p. 84. Khrushchev, G. K., 1961 Nov. p. 70. Khrushchev, K., 1975 Nov. p. 104, Khrushchev, Nikita S., 1959 Feb. p. 62; 1962 Apr. p 49-51, 53, 74; May p. 74; July p. 76; Nov. p. 41, 49, 1963 Jan. p. 60; Mar. p. 72; Aug. p. 48; Sept. p. 130, 82; Dec. p. 64; 1964 June p. 54, 1968 Aug. p. 42; Dec. p. 20, 22; 1972 Nov. p. 16; 1973 Nov. p. 25; 1975 Oct. p.

Khufu (Cheops), Pharaoh, 1957 July p. 107. Khuri, Raja N., 1962 Aug. p. 100. Khvoschev, A. N., 1963 Nov. p. 53. Kiang, Nelson, 1962 June p. 146. Kiang, T., 1974 Feb. p. 53. Kidd, John G., 1954 June p. 72; 1968 Aug. p. 34, Kidd, Kenneth K., 1978 Jan. p. 66. Kidd, W. S. F., 1976 Aug. p. 52; 1977 Mar. p. 102. Kidder, A. V., 1957 Oct. p. 83. Kidder, George W., 1949 June p. 26. Kidder, Ray E., 1974 June p. 24. Kidson, Chev, 1965 June p. 41, 45. Kidson, John W., 1971 Jan. p. 36. Kieffer, Hugh H., 1978 Mar. p. 81. Kiehn, E. D., 1974 Feb. p. 33. Kielley, W. W., 1968 Feb. p. 32. Kiepenheuer, K. O., 1955 Feb. p. 44; 1969 Feb. p. 55; 1971 July p. 79. Kiersch, George A., 1965 July p. 48. Kierstead, R. W., 1956 July p. 50. Kiessling, Roland, 1966 July p. 97. Kiewiet, Cornelis W. de, 1954 Sept. p. 70. Kihara, Hitoshi, 1951 Apr. p. 58; 1953 July p. 55; 1969 May p. 23; 1972 Apr. p. 34. Kiil, Vilhelm, 1968 Jan. p. 24. Kilborne, F. L., 1967 Jan. p. 111. Kilbuck, John H., 1956 Mar. p. 34. Kilby, B. A., 1964 Dec. p. 72. Kilby, Jack S., 1977 Sept. p. 64. Kilgore, Harley M., 1948 June p. 9; 1949 Feb. Kilham, Lawrence, 1954 Feb. p. 35; 1967 Jan. p. 113, 114. Killam, Keith, 1959 Aug. p. 96. Killander, Dick, 1974 Jan. p. 55. Killen, J. T., 1972 Oct. p. 42. Killian, James R. Jr., 1948 Nov. p. 24; 1951 June p. 31; 1953 May p. 54; 1954 Sept. p. 70; 1956 Feb. p. 49; 1957 May p. 62; 1958 Apr. p. 64; May p. 50; 1959 Feb. p. 58, 59; July p. 62; 1969 Aug. p. 18; 1971 Mar. p. 44; 1978 Feb. p. 76. Killian, Lewis M., 1952 Mar. p. 44. Kilmodin, Göran M., 1959 Oct. p. 84. Kilpatrick, F. P., 1953 Mar. p. 64; 1959 Apr. Kilpatrick, Martin, 1953 May p. 32. Kilston, Steven, 1966 Apr. p. 60. Kim, Chul, 1978 Mar. p. 129. Kim, Jewan, 1966 Aug. p. 42. Kim, John S. S., 1976 Apr. p. 61. Kim, Jung-Ja Park, 1978 Jan. p. 59. Kim, Sung-Hou, 1969 Mar. p. 50; 1978 Jan. p. 52, 57. Kim, Y. B., 1966 June p. 98. Kimball, O. P., 1971 June p. 97. Kimball, Richard F., 1951 May p. 24, 25. Kimball, Stockton, 1963 Mar. p. 118. Kimball, Wayne A., 1961 Mar. p. 153. Kimberg, Daniel V., 1971 Aug. p. 21. Kimberly-Clark Corporation, 1971 Nov. p. 101. Kimble, Danial P., 1963 Feb. p. 55. Kimble, George H. T., 1952 Apr. p. 74. Kimble, Gregory A., 1963 May p. 130. Kimmitt, M. F., 1965 Apr. p. 58. Kimpton, Lawrence A., 1952 Mar. p. 35. Kimura, Doreen, 1972 Apr. p. 83. Kimura, Motoo, 1969 Aug. p. 32, 35, Kimura, Toshio, 1975 Apr. p. 31 Kincade, Paul W., 1974 Nov. p. 66. Kindas-Mugge, Ingela, 1976 Aug. p. 63. Kinder, Elaine, 1955 Feb. p. 74. King, David, 1978 Feb. p. 98, King, David S., 1977 Feb. p. 96. King, E. A. Jr., 1975 Feb. p. 33.

King, Gilbert W., 1955 June p. 100; Sept. p. 74. King, Ivan R., 1969 Jan. p. 30; 1971 Mar. p. 46. King, James, 1976 July p. 95, 100. King, John A., 1959 Oct. p. 128. King, Jonathan, 1967 July p. 61, 62, 71. King, Joseph, 1961 Apr. p. 108. King, L. C., 1968 Apr. p. 54. King, Laurain, 1973 Mar. p. 71. King, M. Kenton, 1957 June p. 66. King, MacKenzie, 1950 Jan. p. 13. King, Martin Luther, 1968 Aug. p. 15; 1970 Feb. p. 42; 1971 Dec. p. 13. King, Merrill, 1955 Dec. p. 40. King, Philip G., 1956 Feb. p. 66, 67. King Ranch of Texas, 1958 Feb. p. 38. King, Richard A., 1976 Nov. p. 92 King, Robert C., 1964 Apr. p. 118, 119. King, Robert L., 1951 June p. 51; 1952 Oct. p. 68. King, Thomas J., 1961 Sept. p. 132; 1968 Dec. p. 24, 27, 30. Kingdon, K. H., 1954 Dec. p. 53. Kingery, William D., 1962 Jan. p. 132. Kings College Hospital, 1963 July p. 58. Kings College London, 1954 Oct. p. 57, 58, 61; 1963 Mar. p. 91; 1965 June p. 79; Dec. p. 20, 24, 27. Kings College Medical Research Council, 1958 Nov. p. 67, 70, 74. Kings County Medical Society, 1949 Mar. p. 26. Kingsburg, Douglas, 1977 Feb. p. 100, 101. Kingsbury, Albert, 1966 Mar. p. 63, 64. Kingslake, Rudolf, 1976 Aug. p. 81. Kingsley, J. D., 1963 July p. 38. Kingston, Robert H., 1964 Apr. p. 46. Kingston, W. R., 1971 Oct. p. 91. Kinkead, Eugene. 1951 Feb. p. 30. Kinman, T. D., 1966 Dec. p. 41, 45, 47; 1969 Jan. p. 32; 1970 Dec. p. 28. Kinney, Dennis K., 1972 Mar. p. 76. Kino, Gordon S., 1972 Nov. p. 44; 1974 Feb. Kinoshita, Jin H., 1975 Dec. p. 81. Kinosita, Riojun, 1961 Feb. p. 61. Kinsel, T. S., 1968 June p. 19, Kinsell, L. W., 1950 Mar. p. 36. Kinsey, Alfred C., 1969 Jan. p. 23. Kinsey, Everett, 1955 Dec. p. 40, 43. Kinsky, Bertha, 1949 Dec. p. 11, 12, 15. Kinzel, Augustus B., 1965 Feb. p. 51. Kip, Arthur F., 1963 July p. 120. Kipling, Rudyard, 1950 Apr. p. 54; 1951 Dec. p. 17; 1956 May p. 120; 1957 Jan. p. 118; 1970 Dec. p. 104. Kippenhahn, Rudolf, 1975 Mar. p. 29. Kipping, F. S., 1948 Oct. p. 51, 53. Kirby, David, 1974 Apr. p. 39. Kirby, K. S., 1965 June p. 41, 45. Kircher, Athanasius, 1967 Dec. p. 103. Kirchhoff, Gustav R., 1950 Jan. p. 22; 1952 Sept. p. 59; 1961 Dec. p. 84; 1962 Feb. p. 56, 57; 1967 Nov. p. 109, 110; 1968 Sept. p. 75; 1970 May p. 116; July p. 94. Kirillin, V. A., 1969 June p. 22, 25. Kirillos, Abbot, 1964 June p. 104. Kirin Academy of Agricultural Sciences, 1975 June p. 16-18. Kirk, Donn B., 1977 July p. 37. Kirk, Dudley, 1960 Sept. p. 212. Kirk, Martha, 1962 June p. 100. Kirk, Nancy, 1971 Sept. p. 118. Kirk, P. L., 1954 Feb. p. 76, 79. Kirk, William, 1962 May p. 82. Kirk, William T., 1978 Mar. p. 50, 72. Kirkbride, Diana, 1963 Oct. p. 101. Kirkendall, E. O., 1957 May p. 108. Kirkland, Wallace, 1971 Oct. p. 14.

Kazakov, George, 1958 Oct p 120 Kazec, P, 1965 July p 68 Kealy, T J, 1973 Dec p 50 Kearns, C W, 1952 Oct p 25 Kearns, Carroll D, 1958 Apr p 48 Kearsley, Richard, 1972 Mar p 74 Keast, Robert W, 1956 Oct p 74 Keate, physician to George III, 1969 July p 45 Keating, Richard E, 1972 Sept p 67 Keats, Arthur S, 1966 Nov p 135 Keats, John, 1949 Oct p 31, 1973 June p. 40, 1977 Apr p 116 Keatts, Henry, 1968 Sept p 180, 1972 Mar p 25 Kebabian, John W., 1977 Aug p 111, 113, 115 Keck, Paul H, 1967 Dec p 67 Keefer, Chester S, 1952 Apr p 55, 56 Keegan, George J Jr, 1973 Aug p 12 Keegstra, Kenneth, 1975 Apr p 90 Keegstra, W, 1977 Dec p 56 Keele, C A, 1962 Aug p 116 Keeler, James, 1975 Sept p 152 Keeler, John, 1971 Aug p 68 Keeler, Leonarde, 1967 Jan p 25, 26 Keeler, Stuart P, 1976 Nov p 105, 106, 108 Keeley, Kim, 1960 Sept p 204 Keeley, Lawrence H, 1977 Nov p 108 Keeling, Charles D, 1970 Sept p 183, 1971 Jan p 41, 1978 Jan p 34, 37 Keely, John E W, 1968 Jan p 121, 122 Keenan, Philip C, 1973 Dec p 39, 43, 47, 48 Keener, Gladys M, 1953 May p 54 Keener, H A, 1959 Jan p 102 Keeney, Mark, 1969 July p 64 Keenleyside, M H A, 1962 June p 134 Keepax, Carole, 1977 Dec p 163 Keesey, Ulker T, 1977 Jan p 60 Keesom, A P, 1958 June p 31 Keesom, W H, 1958 June p 31, 1962 June p 60 Keeton, William T, 1974 Dec p 96, 102, 1975 Aug p 103 Kefauver, Estes, 1962 Sept p 98 Kegeles, Gerson, 1952 Oct p 34 Kehoe, J Michael, 1977 Jan p 52 Kehoe, Jacsue, 1964 Mar p 94 Kehoe, Robert A, 1971 Feb p 16 Keidanren, 1970 Mar p 35 Keil, B, 1964 Dec p 76 Keilin, David, 1949 Sept p 48, 1958 July p 57, 58, 1959 Aug p 121, 1964 Nov p 64, 1971 Dec p 30 Keiller, Alexander, 1970 Nov p 36, 1978 Jan p 69 Keinen, 1972 June p 100 Keiner, Melvyn, 1976 July p 53 Keith, Arthur, 1948 July p 18, 19 Keith, Charles H, 1957 Oct p 47 Keitt, G W, 1955 June p 84 Kejo University, 1964 Dec p 56 Kekule, Frederich A, 1950 Sept p 32, 1953 June p 68, 1957 Feb p 111, 114, 115, 1958 Jan p 60, Sept p 144, 1964 Dec p 118, 1970 Jan p 58, 1972 Aug p 35, 1976 Mar р 35 Keldysh, L V 1976 June p 29 Keldysh, M V, 1969 June p 22 Kellaway, C H, 1963 Nov p 106 Kellenberger, Edouard, 1961 June p 93, 100, 101, 107, 1965 Feb p 73, 1966 Dec p 32, 1967 May p 56, July p 64 Kellenberger, G, 1966 Dec p 38 Keller, A., 1954 Dec p 46 Keller, Andrew, 1964 Nov p 84 Keller, D, 1956 June p 41 Keller, Ferdinand, 1961 Dec p 138, 139, 143 Keller, Helen, 1957 June p 150

Keller, J M, 1954 Feb p 67 Keller, John, 1969 Nov p 123 Keller, Joseph, 1952 Sept p 108, 1968 July p 55, 1974 June p 89 Keller, Mark, 1952 June p 40 Keller, Roger, 1968 Aug p 46 Kellerman, Kenneth I, 1966 Dec p 48, 1969 Jan p 36, 1977 Dec p 86 Kellermann, Gottfried, 1975 June p 30 Kellermann, Odile, 1976 Apr p 44 Kelley, David H , 1978 May p 96 Kelley, Fenton, 1970 Feb p 56 Kelley, Wilbur E, 1949 July p 33 Kellner, Aaron, 1963 June p 84 Kellog, E W, 1961 Aug p 80 Kellogg, F E, 1975 July p 108 Kellogg Foundation, 1976 Sept p 38 Kellogg, Luella, 1972 Oct p 92 Kellogg, N, 1969 Jan p 50 Kellogg, Rhoda, 1970 Feb p 83, 86 Kellogg, Winthrop, 1953 May p 60, 1972 Oct p 92 Kelly, Anthony, 1965 Mar p 56, 1967 Feb p 92, Sept p 100, 79 Kelly, Douglas E, 1965 July p 55, 57 Kelly, George A, 1967 Mar p 80 Kelly, Harry C, 1954 Mar p Kelly, Henry C, 1976 Nov p 29 Kelly, Mervin J, 1953 June p 46, Sept p 76, Dec p 50 Kelly, P, 1963 Aug p 80-82 Kelly, Thomas J Jr, 1974 Aug p 90 Kelly, William C, 1955 May p 58, 1958 Feb p 40 Kelman, Arthur, 1975 June p 15 Kelman, Herbert C, 1957 Feb p 60 Kelner, Albert, 1949 May p 27, 1962 Dec p 138, 1967 Feb p 37 Kelsall, Thomas, 1959 Aug p 43 Kelser, Raymond, 1949 Sept p 18 Kelsey, Frances O, 1962 Aug p 34, 1973 Sept p 164 Kelsey, Francis W, 1978 Jan p 112 Kelson, I, 1978 June p 64 Kelus, Andrew, 1973 July p 55 Kelvin, Lord, see Thomson, William Kemeny, John G, 1956 Oct p 118, 1959 June p 105 Kemmer Nicholas 1953 Sept p 63, 1957 July p 83, 1964 Sept p 139 Kemp, James C, 1971 Aug p 66 Kemp, L, 1970 June p 38 Kemp, William B 1971 Sept p 105 Kempe Alfred B, 1977 Oct p 108 111-114 Kempelen, Wolfgang von, 1950 Feb p 48, 1972 Feb p 50 51, 52 Kendall Edward C, 1950 Mar p 31, 32, 36, Oct p 21, Dec p 26, 1955 Jan p 58 60 1963 July p 50, 1967 Nov p 25 28, 1971 June p 95 Kendall Henry W 1971 June p 61, 1975 June p 52, 1978 Feb p 76 Kendall, J P, 1949 Dec p 52 Kendall Norman 1957 July p 96 Kenderline, S 1971 July p 79 Kendrew, John C. 1959 June p 77, 1961 Feb p 88, 1962 Jan p 70, Dec p 66, 1964 Nov p 64, 69-71, 73, 1965 May p 113, Sept p 84 1966 June p 42, 45, 52, July p 96, Sept p 161, Nov p 83 85, 1967 Nov p 28, 1968 July p 70 Keniston, Kenneth, 1971 Mar p 36 Kennamer, Earl F 1948 Dec p 27 Kennan, George F, 1975 Oct p 108 Kennard, C H L, 1966 July p 96 Kennedy, Donald, 1963 Oct p 56, 1968 May

p 83, 1970 July p 64, 1971 Feb p 69, 1974 Aug p 34, Oct p 100 Kennedy, E S, 1973 Dec p 96 Kennedy, Edward M, 1969 Mar p 26, 1971 Apr p 18, 20, 23, 1975 July p 45 Kennedy, Eugene P, 1958 July p 61, 1960 Feb p 51, 1972 Feb p 36 Kennedy, George C, 1960 Feb p 68, 1965 Oct p 33 Kennedy, Ian McC, 1971 Dec p 40 Kennedy, Jacqueline, 1967 Nov p 25 Kennedy, John F, 1955 Mar p 32, 1960 Aug p 144, 1961 Mar p 80, Apr p 76, May p 74, Sept p 84, 90, Oct p 90, 1962 Apr p 50, 51, 53, 74, May p 46, 48, 74, July p 76, Sept p 99, 1963 Jan p 60, Feb p 64, May p 74, Sept p 82, Dec p 136, 1964 June p 25, 94, 95, Oct p 27, 28, 56, 1965 Apr p 54, 1966 Jan p 46, 54, Aug p 40, 1967 Nov p 25, 1968 Feb p 25, 1969 Jan p 52, 1970 Sept p 166, 1971 Jan p 17, 1972 Jan p 23, Nov p 23, 1973 Mar p 44, July p 18, 1976 Apr p 33, June p 21, 1977 Feb p 58, Nov p 44, 45, 1978 Feb p 48 Kennedy, Joseph W, 1950 Apr p 46, 1953 May p 39, 1955 Sept p 72, 1959 Feb p 66 Kennedy, Robert F, 1970 Feb p 42 Kennedy, Wallace A, 1970 Oct p 20, 26 Kennelly, Arthur E, 1949 Jan p 31, 1955 Sept p 126 Kenney, George C, 1950 June p 13 Kent, Earl le L, 1973 July p 28, 31 Kent, Frederick W, 1968 Feb p 84 Kent, Paul, 1969 Feb p 104 Kent State University, 1964 Aug p 77, 1978 Junep 48 Kenton, John E, 1959 Oct p 81 Kenya Waliangulu Game Management Scheme, 1960 Nov p 134 Kenyan National Museum, 1978 Apr p 94 Kenyon, Kathleen M., 1952 Nov p 49, 1956 Nov p 68, 1957 Sept p 116, 1960 Sept p 134, 1965 Sept p 59 Kephart, William M., 1950 Nov. p. 28 Kepler, Johannes, 1948 May p 21, Oct p 16, 1949 Apr p 47, Aug p 40, 43, Oct p 44 Dec p 19, 1950 May p 51, Aug p 32, 1952 June p 57, Oct p 53, Dec p 41, 1953 Jan p 20, 1955 July p 69, 70, Dec p 78, 1956 Sept p 212, 228, 79, 1957 June p 101, 50, Dec p 37, 1958 Sept p 60, 1959 Oct p 163, 170, 1960 Mar p 64, 1961 Feb p 119, 128 Mar p 96, 1962 Apr p 54, Aug p 98, 1963 Dec p 35, 1964 May p 108 110-112, 115, 116, Sept p 129-133, 43, 63, 1965 Apr p 110, 1966 Oct p 28, 88, 97 1967 Sept p 75 Dec p 97, 98, Aug p 97, 1968 Sept p 97 1969 Feb p 56, 1971 July p 77, 1972 Feb p 63 Mar p 93-96, 99-106 May p 38. June p 80 1973 Jan p 100 Dec p 97, 99. 101, 1974 July p 98 1975 Sept p 25 1976 May p 108 June p 100 105, Dec p 101 1977 Feb p 30 35 Apr p 125 127, June p 121, 122, Oct p 80 1978 Feb p 126 Kepner, W A 1956 Nov p 132 Keppel Geoffrey 1964 Mar p 99 1966 July Keppler, A., 1962 Aug p 111 116 Keramopoulos A 1954 Dec p 75 Kerckhoffs, Auguste 1966 July p 42 43 Kerim, S M M 1971 Nov p 89 Kerker Milton 1953 Feb p 76 Kermott, Henry, 1978 May p 120 Kern, W., 1976 Mar p 37 45 Kerner, Anton 1963 July p 55 Kerr, Clark 1953 Mar p 44 Kerr, D I B. 1961 Feb p 45, 47

Koenig, D F, 1965 July p 46, 1966 Nov p 84 Koenig, P, 1960 Mar p 133 Koenig, Samuel, 1955 Oct p 101 Koeningswald, G H R. von, 1949 Nov p 22, 1953 Dec p , 1963 Feb p 70, 1966 Nov p 46, 47, 1968 Aug p 45, 1970 Jan p 77, 78, 1972 Jan p 102, 1977 May p 31 Koepfli, Joseph B, 1956 Mar p 50 Koepke, C A, 1971 Oct p 102 Koeppe, Roger E, 1974 July p 82 Koerte, Alfred, 1959 July p 100, 102 Koerte, Gustav, 1959 July p 100, 102 Koffka, Kurt, 1965 Feb p 42, 1966 Dec p 80, 1967 Oct p 120, 121, 1974 Apr p 91, July p 90, 93-96, 102, 103, 1978 May p 126 Kossler, Henry, 1975 Aug. p 39 Kogl, Fritz, 1949 May p 40, 41, 1961 June p 139, 142 Kogure, Makita, 1960 Feb p 109 Kogut, John, 1975 Oct p 45 Kogyo, Toyo, 1969 Feb p 96 Kohler, A , 1958 May p 39, 40 Kohler, Heinz, 1973 July p 59 Kohler, Ivo, 1962 Jan p 49, 1965 Nov p 84, 1967 May p 96, 104 Kohler, J W L, 1973 Aug p 85 Kohler, Robert, 1953 May p 60 Kohler, Wolfgang, 1949 Aug p 38, 1955 June p 73, 1957 June p 143, 144, 146, 1962 Jan p 45-49, 1963 Apr p 118, 124, 1972 Sept p 50, 1974 July p 93 Kohlrausch, Friedrich, 1955 June p 66, 67 Kohlschutter, H W, 1960 July p 66 Kohlstaedt, Kenneth, 1959 Mar p 54 Kohn, Hans, 1973 Apr p 80 Kohn, Jane, 1957 Oct p 83 Kohne, David E, 1970 Apr p 24 Kohno, Todahiko, 1971 Jan p 46 Kojima, H, 1974 Dec p 66 Kojima, Ken-Ichi, 1975 Aug p 58 Kok, Bessel, 1965 July p 77, 82, 1969 Dec p 69, 1974 Dec p 71 Koketsu, K., 1978 Feb p 94 Kolb, Gertrude, 1976 July p 112 Kolbe, Hermann, 1963 Nov p 96, 98, 1967 June p 64, 72 Koldovsky Paul, 1976 May p 54 Koldovsky, Ursula, 1976 May p 54 Kolehmainen, Hannes, 1976 June p 114 Kolers, Paul A. 1971 Mar p 100 Kolff, Willem J., 1954 Aug p 26, 27, 1961 July p 57, 58, 61 Kolhórster, Werner, 1949 Mar p 30 Kolin, Alexander, 1955 Fcb p 60 Koller, Dov. 1956 Sept p 118, 1959 July p 121 Koller, P C, 1960 Jan p 99, 102 Kolliker, Albrecht, 1968 June p 86, July p 55 Kolliker, Anton, 1965 June p 78, 79 Kollsmin Instrument Corporation, 1963 July P 45 Kolm Henry H 1963 Dec p 129, 1965 Apr p 127, 1967 Mar p 115 Kolmen Simuel K. 1963 June p 88 Kelmosorov N N 1952 June p 28 1956 Jan p 30, 31, 1973 I cb p 69 1975 M w p 48 Keln, Henry H 1965 July p 65 Kelobow, Theodor, 1975 Apr p 57 Keloday, I dwin 1973 Aug p 94

Kocher, Theodor, 1967 Nov p 26

Kock, W E., 1952 Aug p 43, 44

Kodama, Ayako, 1975 Nov p 39

Koehler, J A, 1966 Feb p 51

Koehler, Otto, 1968 June p 73

Koen, J S, 1977 Dec p 89

Koechlin, Maurice, 1974 Feb p 96

Koehler, James K, 1972 Jan p 64

Koenig, Arthur, 1975 Mar p 69-71, 73

Kolomiets, B T, 1977 May p 36 Kolovos, Ernest R., 1956 Mar p 34 Kolstadt, George A, 1960 July p 79 Koltsov, N K, 1958 Nov p 90 Komarovsky, Mirrs, 1974 Sept p 145 Komesaroff, M M, 1971 Dec p 27 Kompfner, Rudolf, 1954 Oct p 52, 1961 Nov p 79, 1972 Sept p 136 Kondoleon, Anthony S, 1978 Feb p 72 Kong, Yu-lin, 1968 Feb p 92 Konigsberg, William H, 1964 Nov p 72 Konigsberger, V V, 1958 Mar p 122 Konijn, Theo M, 1968 Oct p 60, 1969 June p 82, 83, 88 Konopacki, M, 1953 Feb p 49 Konopka, Ronald, 1973 Dec p 27, 37 Konorski, Jerzy, 1970 Mar p 68, 1971 Mar Kontomichalou, P, 1967 Dec p 26 Konzak, Calvin F, 1954 Jan p 44 Kooi, C F, 1964 June p 75 Kooijmans, PH, 1974 Oct p 28 Koopmann, Gary, 1970 Jan p 41 Koopmans, Tjalling C, 1954 Aug p 21, 1975 Dec p 48 Kopac, M J, 1952 Apr p 59, 1959 Jan p 56 Kopal, Zdeněk, 1960 May p 68, 1962 Oct p 63, 1964 Mar p 56, 1969 Dec p 95 Kopfermann, Hertha, 1974 July p 94 Kopp, George A, 1969 Nov p 128 Kopp, Roger A, 1973 Oct p 75 Koppen, Else, 1975 Feb p 90 Koppen, Wladımır P, 1975 Feb p 90, 95 Koppenaal, R., 1967 Oct p 119 Koppers Company, Incorporated, 1955 July p 63, 1961 Nov p 88, 1962 July p 84, 1963 Sept p 136, Dec p 76, 87 Koppers, W, 1957 May p 41 Koprowski, Hilary, 1957 Sept p 114, 1959 Aug p 64, 1960 Oct p 83, 1973 Jan p 25, 1974 Feb p 35, 1978 Feb p 117, 119 Korchin, Sheldon, 1963 Mar p 102 Kordesch, Karl, 1959 Oct p 75 Kordylewski, Kazimierz, 1961 Aug p 71, 1967 Apr p 50 Korenman, V, 1966 Nov p 110 Korff, Serge A, 1948 June p 27, 1949 Mar p 29 33, 37 Korkisch, Hans, 1960 Feb p 132 Korman, Samuel, 1954 Sept p 117 Korman, Z, 1949 Dec p 40, 41 Kornberg, Arthur L., 1955 May p 54, 1956 Sept p 114, 1957 Sept p 188, 190, 1959 Dec p 56 78, 1961 Sept p 76, 1962 Feb p 44, 1964 June p 56, 1966 Jan p 37, 41, Nov p 65, 1967 Nov p 25, 28, 1968 Feb p 51, Aug p 44 1970 July p 49, 1977 Dec p 56 Kornberg, H L, 1957 July p 66 Kornberg, Roger D. 1975 July p 48, 1976 May p 38 1977 Nov p 72 Kornberg Sylry, 1968 Oct p 68 Kornfield Jack, 1969 Jan p 65 Kornorski, Jerzy, 1970 July p 58 Koros E., 1974 June p 85 Korsten, Mark A., 1975 May p. 44, 1976 Mar. p 32 Kort, Edward N., 1976 Apr p. 45-46 Korte, Adolf 1964 Oct p 104 Kortschak, Hugo 1973 Oct p 83, 84 Korwal Charles T 1976 Dec p 88 Korzybski Alfred, 1967 July p 20 Kosambi, D. D. 1966 Feb p. 102 Kosenow, W., 1962, Aug. p. 29, 30 Koshkina, T. V., 1974 June p. 40 Koshland Daniel E. Jr., 1957 Nov. p. 70, 1959 Aug. p. 125, 1966 Nov. p. 59, 1970 Feb. p. 46. Aug p 46 1975 Aug p 39, 1976 Apr p 44

45, 46 Koskenniemi, Seppo, 1969 Nov p 62 Kosok, Michael, 1951 Aug p 20 Kosok, Paul, 1951 Aug p 20 Kosower, Edward M, 1970 Aug p 82 Kosower, Nechama S, 1970 Aug. p 82 Kossel, Albrecht, 1950 June p 35, 1953 Feb p 51, 56, 1967 Nov p 26, 1968 June p 80, Kossiakoff, Tony, 1974 July p 84 Kossinna, Gustaf, 1971 Oct p 64 Kossoff, George, 1978 May p 108 Kossuth University, 1966 Nov p 53 Kosswig, Curt, 1964 Apr p 53 Kostanecki, Stanislaus von. 1964 June p 85 Kostarev, A I, 1976 Apr p 96 Kosterlitz, Hans W, 1977 Feb p 50, Mar p 49 Kosygin, Aleksei N, 1968 Aug p 42, Nov p 54, Dec p 23, 1969 June p 22, Aug p 26, 1973 Nov p 26 Kotarbinski, Tadeusz, 1969 June p 66 Kotas, Robert V, 1973 Apr p 82 Kotelchuck, Milton, 1972 Mar p 75, 80 Kotelnikov, V, 1961 July p 68 Kotin, Paul, 1962 July p 46 Kotok, Alan, 1973 Apr p 43 Kotov, I S, 1961 May p 96 Koukol, J F, 1963 July p 84 Kourganoff, Vladimir, 1959 Apr p 93 Kourilsky, Francois M, 1976 May p 38 Kouroumotis, Constantine, 1958 May p 111. Kouwenhoven, William B, 1968 July p 19, 20 Kovach, Robert, 1970 Aug p 19 Kovacs, Sador J, 1975 Nov p 60 Kovalevsky, Jean, 1964 Feb p 54 Kowal, Charles T, 1975 Sept p 146, 149 Kowal, Stephen C, 1971 Oct p 44 Kowarski, L., 1948 June p 24, 1958 Feb p 84 Koyal, Sankar N, 1974 June p 51 Kozai, Yoshihide, 1961 Nov p 82, 1967 Oct Kozlenkov, A. I., 1976 Apr. p. 96 Kozloff, Eugene N , 1972 Dec p 94 Kozloff, Lloyd M , 1953 May p 38, 39 Kozlova, A V, 1955 Oct p 41 Kozlowski, Joseph P, 1969 June p 19 Kozodayev, M S, 1956 Aug p 30 Kozyrev, Nikolai A., 1959 June p 78, 1960 Jan p 72, May p 64, 65, 1962 Oct p 63, 1964 Feb p 68, 1965 May p 30, 31 Kraemer, Hans, 1976 Aug p 91 Kraemer, Helena C, 1973 Feb p 48 Kraepelm, Emil, 1949 July p 44, 1962 Aug. p 65, 67 Krafft, Bertrand, 1976 Mar p 102 Kraft, Irvin A., 1970 Oct p 60 Krast, Robert P., 1968 June p. 40, 1970 Dec p 28, 29, 1975 June p 70 Krag, Cletus L, 1952 Aug. p 33 Krag, William E., 1963 July p 38 Krainin, James M. 1964 Apr p 62, 64 Krakoff, Irwin H, 1969 Oct p 50, 1971 July p 30 Kramer, E., 1974 July p 29 Kramer, Gustav, 1954 Apr p 35, Oct p 75, 76, 1958 Aug. p 43, 1966 Oct p 105, 1974 Dec p 97, 98, 101, 1975 Aug p 103, 111 Kramer, Henry, 1973 Mar p 88, 91 Kramer, Johannes, 1977 Jan p 74-76 Kramer, Max O , 1960 Mar p 50 Kramer S D, 1953 July p 27 Kramer Samuel N. 1957 Oct p 71, Nov. p 59, 1960 Sept p 154 Kramers H A, 1958 Sept p 82, 1960 Oct p 153 Krane, Stephen M. 1970 Oct. p. 46, 1974 Nov

Kirkpatrick, Charles M , 1952 Nov p 50 Kirkpatrick, John, 1976 Jan p 114, 115 Kirkpatrick, Paul H., 1951 July p 57, 1963 Aug p 34, 37, 1965 June p 24 Kirkpatrick, Sidney, 1949 Oct p 27 Kirkwood, John G, 1949 May p 19, 1953 Aug p 41, 1956 Mar p 52 Kirkwood, Kenneth, 1949 Dec p 40 Kirlian, Semyon D, 1976 Dec p 53 Kırman, David, 1966 Aug p 42 Kırsanov, S, 1972 Sept p 80 Kirsch, Lawrence, 1966 Aug p 42 Kırschfeld, Kuno, 1976 July p 112 Kırschner, Kasper, 1969 May p 40, 41 Kirschner, Stanley, 1966 May p 50 Kirshner, Robert P, 1976 Mar p 77. Dec Kirsten, Eva S H, 1976 June p 42 Kirton, Kenneth T, 1971 Nov p 90 Kıruna Geophysical Observatory, 1963 June p 57 Kirven, M N, 1969 Feb p 44 Kirwan, Richard, 1948 July p 47, 1956 May Kisch, Bruno, 1951 Aug p 49, 1957 May p 84 Kiser, Ewin B Jr, 1977 Aug p 57 Kishida, K , 1976 Oct p 97 Kishinouye, F, 1949 Feb p 42 Kisieleski, Walter E, 1964 Feb p 58, Dec p 111, 1965 Oct p 81, 1966 Jan p 39 Kisielow, Pawel, 1977 May p 68 Kissinger, Henry A, 1971 Mar p 44, 1974 July p 46, 1976 Nov p 37 Kistiakowsky, George B, 1952 Mar p 31, Dec p 36, 1953 May p 31, 1959 July p 62, Oct p 80, 1962 May p 75, 1964 May p 58, 1966 Mar p 106, Oct p 44, 1969 Aug p 18, 1970 Jan p 19, June p 46, 1971 Jan p 24, 1964 Oct p 56 Kistner, O C, 1971 Oct p 86 Kit, Saul, 1966 Mar p 37 Kitai, Ruth, 1955 May p 41 Kitasato, Shibasaburo, 1967 Oct p 81, 1968 Apr p 71, 76, 1973 July p 55 Kitay, Julian I, 1965 July p 52 Kitchell, J. Roderick, 1968 July p. 21 Kitching, James, 1975 Apr p 69 Kitching, James W, 1960 May p 96 Kitching, John A., 1958 Oct p 43 Kite, George L, 1950 Oct p 49, 50 Kitt Peak National Radio Astronomy Observatory, 1958 Apr p 50, Aug p 50, Sept p 85, 1960 Apr p 61, 63, Nov p 97, 1963 July p 66, 1964 May p 85, July p 41, Nov p 40, 1965 Aug p 24, 1966 June p 31, Aug p 35, Nov p 54, Dec p 41, 45 48, 1969 Jan p 46, May p 53, 1970 June p 52, Dec p 27, 28, 1971 Jan p 52, Feb p 31, Dec p 25, 1974 Dec p 66, 1975 Feb p 42, May p 83, Sept p 136, 33, 46, 1976 Dec p 90, 1977 Apr p 96, 96, 97, 99, 101, June p 68, July p 39, Sept p 231 Kittel, Charles 1976 June p 37 Kıtzınger, Charlotte, 1961 Jan p 138 Kıtzler, Gertraud, 1961 Dec p 116 Klapisch, R., 1978 June p 72 Klapow, L A, 1975 Feb p 76 Klapper, Zelda S., 1963 Apr p 122 Klaproth Martin H, 1949 Apr p 48, 1951 June p 19, Nov p 29, 1963 Nov p 125 Klarman Herbert E., 1965 Jan p 24, 26 Klarmann, Joseph, 1969 June p 37 Klason, Peter, 1958 Oct p 106, 107 Klatt, Dennis, 1972 Sept p 73 Klaue R, 1967 Feb p 62 Klebahn, Hans, 1977 Aug. p 90, 92. Klebanoff, Seymour J., 1971 June p. 52

Klebesadel, Ray W, 1976 Oct p 66, 1977 Oct Klee, Paul, 1970 Nov p 101, 1971 June p 34, 40, 1974 July p 98 Klee, Werner A, 1977 Mar p 54, 55 Kleene, S C, 1964 Sept p 150, 152 Kleene, Stephen, 1973 Nov p 85, 90 Kleiber, Max, 1958 Feb p 36 Kleid, Dennis, 1976 Jan p 73, 74 Klein, Abraham, 1954 Dec p 92 Klein, Alexander, 1954 Apr p 61, 1964 Oct p 60 Klein, Atula O, 1964 June p 88 Klein, D, 1957 Apr p 62 Klein, Eva, 1976 May p 73, 1977 May p 64 Klein, Felix, 1948 July p 47, 1949 Jan p 41. 1950 Jan p 18-21, Sept p 40, 42, 1955 Jan p 86, 1964 Sept p 42, 46, 1972 Sept p 73 Klein, George, 1976 May p 73, 1977 May p 64 Klein, Jan, 1977 Oct p 97 Klein, Martin, 1956 Sept p 120 Klein, Marvin B, 1973 Feb p 89 Klein, Michael, 1971 Feb p 21 Klein, Miles V, 1962 Dec p 97 Klein, Morris, 1973 Jan p 20 Klein, Morton, 1956 Apr p 64 Klein, Oskar, 1967 Apr p 106-110, 112, June p 35, 1975 July p 34 Kleindienst, Maxine R, 1961 Oct p 119, 126 Kleinman, David A., 1964 Apr p 43 Kleinmann, Douglas E, 1967 Oct p 60, 1968 Aug p 60, 1972 Aug p 59, 1973 Mar p 52, Apr p 37, 1977 Oct p 55, 1978 Apr p 115-Kleinmann, Susan, 1977 Oct p 55 Kleinschmidt, Albrecht K., 1970 Jan p 89 Kleinschmidt, Walter J., 1971 July p 28 Kleinsmith, Lewis J, 1965 Nov p 81, 1975 Feb p 47, 51, 1976 Feb p 38 Kleist, C, 1970 Mar p 68 Kleitman, Daniel J., 1970 July p. 97, 99, 100 Kleitman, Nathaniel, 1952 Nov p 37, 1957 Oct p 62, 1960 Aug p 72, Nov p 82, 1962 Aug p 69, 1967 Feb p 62, 66, 67, 70 Kleman, M., 1977 Dec p 140 Klemensiewitz, Z., 1951 Jan p 42 Klement, William Jr, 1960 Aug p 72 Klemer, Andrew, 1977 Aug p 96 Klenk, Ernst, 1973 Aug p 90 Kleppner Daniel, 1962 Aug p 55, 1976 Feb Klieforth, Harold E, 1961 Mar p 129 Klien, Bertha 1955 Dec p 43 Klima Edward S., 1962 June p 71 Kline, Leo, 1973 Nov p 50 Kline, Morris, 1956 June p 71, Sept p 136, 1958 May p 71, 1964 Sept p 63 Kline, Nathan S 1955 Feb p 52 Klinefelter Harry F Jr 1961 Nov p 73, 1963 July p 60 Klinge, H 1973 Dec p 62 Klingenberg, Martin 1978 Mar p 121 Klinghammer E, 1964 Nov p 53 Klingman W O 1949 Aug p 24 Klinman, Norman R 1974 Nov p 69 Khore, Arvydas J 1969 Mar p 80 82 1975 Sept p 147 1976 May p 115 Klock John W, 1972 Dec p 42 Klockner E., 1961 Mar p 129 Kloet, Ronald de 1976 July p 52 Kloet, S R de, 1962 May p 78 Kloot, W G van der, 1954 Feb p 42 Klopsteg, Paul E, 1951 Dec p 34, 1957 Jan p 58, 1958 Feb p 44 Klose, Peter, 1977 May p 46 Klotz, Irving M. 1972 June p 33 Kluckhohn Clyde, 1956 July p 25

Klug, Aaron, 1959 Aug p 66, 1963 Jan p 53, 1966 Dec p 34, 36, 1969 Aug p 93, 1975 Aug p 40, Nov p 41, 58, 1977 Nov p 72, 1978 Jan p 59 Klun, Jerome A, 1970 Apr p 48 Kluver, Heinrich, 1977 Oct p 132, 133 Kluyver, J C, 1965 Dec p 31 Klymkowsky, Michael W, 1977 Feb p 112 Klystra, J A, 1963 Apr p 83 Kmet, J, 1974 May p 61 Knable, Norman, 1968 Sept p 124 Knapp, R H, 1951 July p 16 Knapp, Sherman R, 1969 July p 52 Knauss, John A, 1961 Sept p 94 Knaust, Karl, 1956 May p 102 Knaver, Friedrich, 1965 May p 63 Knaysı, Georges, 1955 June p 102 Kneller, Godfrey, 1955 Dec p 74 Kniffin, D A, 1963 May p 87 Knight, Bruce W Jr, 1972 June p 96 Knight, C A, 1956 June p 44, 1961 Jan. p 80 Knight, Charles, 1971 Apr p 97, 1973 Jan Knight, Ernest Jr., 1977 Apr p 42, 44 Knight, Nancy, 1971 Apr p 97, 1973 Jan p 105 Knight, Vernon, 1949 Oct p 40, 1959 Jan p 43 Knighton, David, 1976 May p 70 Knipling Edward F, 1960 Oct p 54, 1962 Jan p 59, Oct p 63, 1966 Oct p 46, 1972 Sept Knipping, C M Paul, 1952 Dec p 40, 1961 Dec p 98 Knisely, R. M., 1964 May p. 91 Knoblauch, E J, 1952 Apr p 56 Knoll, Fritz, 1966 July p 83, 85 Knoll, Max, 1970 Feb p 85, 1971 Apr p 27, 1972 Jan p 56 Knoop, Franz, 1954 Jan p 32 Knop, W, 1959 Jan p 98 Knopf, Paul M, 1963 Dec p 45 Knopoff, Leon, 1960 Feb p 68 Knott, J E 1952 May p 52 Knowland, William F, 1949 Sept p 27 Knowles, Jeremy, 1974 July p 82 Knowles John H 1973 Sept p 92 Knowles Ralph 1968 Sept p 193 Knowlton, Kenneth C 1970 June p 81 Knox, Bruce, 1978 Feb p 107, 113 Knox James H M Jr 1972 July p 76 Knox, Robert, 1961 Mar p 71 Knox William T 1971 Oct p 22 Knud, Bishop of Denmark 1965 July p 92 Knudsen Holger, 1972 July p 93 94 Knudsen, Martin 1958 Jan p 38 Knudson, Alfred G Jr 1978 Feb p 118 Knudson Lewis 1966 Jan p 75, 77 78 Knuth Donald E, 1977 Apr p 63 Knuth Eldon L 1968 Oct p 48 Knutson Ben M 1955 Aug p 54 Ko H C 1953 Dec p 54, 1955 Sept p 69 Koba Harry 1974 May p 93 Kobayashi Mitsunas 1971 Nov p 36 Kobayashi Teisaku, 1973 Jan p 101 Kober Alice E 1954 May p 72 73 Kobler John 1966 June p 94 Koby F E, 1972 Mar p 72 Koch Hugo 1966 July p 43 Koch J P 1975 Fcb p 88 Koch, John 1977 Oct p 117 118 Koch, Marie L 1956 July p 50 Koch Robert, 1949 Oct p 32 35 36 39 1952 May p 30, Oct p 32 1955 May p 11 32 June p 103 104 1967 J in p 111 Nov p 26 1963 Apr p 71 Kocher Emil F 1963 Mar p 122

p 41 Kursanov, A L, 1955 Oct p 33, 1959 Feb p 46 Kuru, Nicholas, 1957 Sept p 110, 1969 Dec p 34, 35 Kurtz, E. B. Jr., 1959 July p. 93 Kurtz, Milton, 1968 May p 103 Kurtz, Paul, 1978 Apr. p 78 Kurtze, G, 1969 Jan p 105 Kurtzke, John, 1970 July p 44, 45 Kurzrok, Raphael, 1971 Nov p 84 Kus, Z Y, 1951 Feb p 32; 1971 June p 114 Kusch, Polykarp, 1955 Dec p 46, 1958 Feb p 40, 1961 July p 51, 1965 May p 67, 70, 74, Dec p 39, 1967 Nov p 28, 30, 1968 Jan p 74 Kusserow, Bert K., 1965 Nov p 40 Kustaanheimo, Paul, 1974 Nov p 26 Kuster, Ernst, 1964 July p 78 Kutner, M L, 1977 June p 81 Kutoroff, Steven, 1974 Feb p 49 Kuts, Vladimir, 1976 June p 111 Kutsch, Wolfram, 1974 Aug p 35 Kutter, G S, 1972 Feb p 71 Kutzbach, John E, 1972 May p 97 Kutzner, H , 1975 Aug p 37 Kuwabara, Toichiro, 1968 Sept p 178, 179, 1971 Aug. p 57 Kuwert, Ernest, 1973 Jan p 25 Kuzin, A M, 1957 Sept p 107 Kuzma, Joseph F, 1966 May p 47 Kuzmin, A D, 1961 May p 62 Kuznets, Simon, 1968 Nov p 29, 1971 Dec p 38, 1976 July p 29 Kuznetsov, Vasily V, 1962 Oct p 59 Kvenvolden, Keith A, 1968 May p 50 Kwan, John, 1976 Mar p 77, Dec p 101 Kwan, Sau-Ping, 1976 Aug p 65 Kyburg, Henry E Jr, 1973 May p 76 Kyes, Preston 1970 Mar p 92 Kyler, Harry J, 1976 Dec p 53 Kyropoulos, Spyro, 1961 Oct p 114

L

La Barre, Weston, 1951 Oct p 40 La Bossiere, Eileen D. 1976 Nov p 92 La Coste, Lucien, 1965 Nov p 30 La Cour, L F 1958 Nov p 56 La Guardia, Fiorello H, 1950 Aug. p 15 La Guardia, Fiorello H, 1969 Dec p 19-21, 23 La Marche Valmore C, 1972 May p 99 La Mer Victor K 1953 Feb p 72, Aug p 41 1954 Nov p 48 La Motte Carol C 1977 Mar p 52 La Paz, Lincoln 1951 Dec p 42 La Perouse, Count de 1970 June p 103 La Pierre C W 1961 June p 155 La Rosa M 1955 Nov p 45 Laan Harry van der 1975 Aug p 33-35 Laban 1958 June p 52 Labco, 1966 June p 97 Labeyne A L. 1968 Feb p 41 1976 Oct Labillardiere Jacques 1953 Mar p 89 LaBine Gilbert 1951 May p 20 Labinowitch Eugene I 1961 Dec p 74 Laborde Albert 1906 Aug p 92 Labord Henri Mirie 1958 Mar p 108, 1973 Sept p 120 Labow Louis W 1977 Jan p 51 Licissague VM B 1957 Sept p 107 Luciasa, no. V. M. B. 1963, Vuo. p. 104 Unes Beatine 1972 Mar p 30

文文

Lacey, John I, 1970 Jan p 38, 1972 Mar p 80 Lacey, Leon B, 1973 Oct p 71 LaChapelle, Edward R., 1966 Feb p 99 Lachenbruch, Arthur H, 1977 Mar p 102, Aug p 67 Lachinov, P, 1965 Oct p 26 Lachmann, G V, 1954 Aug p 77 Lachmann, Peter, 1973 Nov p 60, 61, 64 Lack, C H, 1967 Nov p 67 Lack, David, 1956 Feb p 70, 1957 July p 121, 126, 1959 Mar p 69, 1964 Oct p 109, 1975 Nov p 112 Lackey Mary D, 1950 Nov p 36 Lactantius, 1973 Apr p 92 Lada, Charles J, 1978 Apr p 113-117, June Ladefoged, Peter, 1962 Apr p 146, 1970 Dec p 30 Ladell, W R S, 1968 July p 108 Ladman, A J, 1968 Sept p 178 Ladoumegue, Jules, 1976 June p 114 Laemmert, Hugo W Jr, 1955 Mar p 62 Laeng, A, 1960 Jan p 52 Laennec, Rene T H, 1949 Oct p 35, 36, 1956 May p 120 Laerm, Joshua, 1973 Sept p 70 Laeyendecker-Roosenburg, D M, 1967 July Lafargue, G V, 1971 Jan p 97, 98 Lafayette, Marquis de, 1956 May p 88 Lafferty, James M, 1962 Mar p 88 Lafitte, L., 1971 Jan p 98 Lagerman, Albert, 1969 May p 64 Lagios, Michael D 1977 Mar p 110 Lagrange, Joseph L. 1948 May p 22, 1950 Sept p 40, 1953 Nov p 93, 1954 June p 77, 78, 80, Aug p 61, 1955 Oct p 100, 1956 May p 94, 1958 Sept p 82, 1960 Mar p 65, 1961 Aug. p 71, 1964 Sept p 45, 1965 Apr p 111, 1973 July p 24, 1975 Sept p 146 Lahey Clinic, Boston, 1958 June p 73 Lahin, S. C., 1963 Nov p. 106 Lahme Hermann der, 1974 Jan p 104 Laidlaw, Patrick P Sir, 1957 Feb p 37, 1963 Nov p 106, 1977 Dec p 90 Laidler, Keith J., 1953 June p 48 Laing, R. D., 1973 Mar p 46 Laird, Melvin R. 1969 Aug p 18, 21, 22, 29, 1970 Jan p 25, 48, 1971 Jan p 16, Nov p 48, 1973 Aug p 12, 1978 May p 46 Laird R 1974 May p 23 Lake, Jane A., 1976 Oct p 45, 46 Laki, K. 1949 June p. 24 Lakin H W 1957 July p 42 Lal D 1969 June p 36 Lalande Joseph J Lefrançais de 1959 Apr p 90 93 Lallemand Andre 1956 Mar p 84 86, 1968 Sept p 114 116 Lallemand J 1974 Dec p 129 130 Lamarck Chevalier de 1950 Sept p 58, 1953 Oct p 78 Dec p 92 1955 Oct p 110 1956 Feb p 62 65 1958 Apr p 83, 1959 May p 61 65, Aug p 98 102-104, 106, 1966 July p 83 1970 Sept p 45 Lamarre Y 1975 Jan p 65 Lamb Charles 1977 Apr p 116 Lamb Fred, 1977 Oct p 53 Lamb Horace 1959 Aug p 75 Lamb Hubert H 1977 May p 87 Lamb I M 1963 Fch p 123 Lamb Richard C 1972 Nov p 105 Lamb Willis L. Jr. 1948 Sept. p. 16-22, 1953 Apr p 61 1955 July p 43. Dec p 46, 1965 May p 65 70 74 Dec p 39, 1907 Nov p 25 30 1968 Jan p 74 1973 Dec p 79, 80 Lamberg-Karlovsky C C 1971 June p 102

Lamberg-Karlovsky, Martha, 1971 June p 102 Lambert, D, 1969 July p 36 Lambert, Jean, 1954 July p 30 35 Lambert, Johann H, 1969 Nov p 89, 91, 1976 May p 90, Aug p 97, 1977 Nov p 90 Lambert, Joseph B, 1970 Jan p 58 Lambert, P., 1977 Nov p 75 Lambertsen, Christian J, 1966 Mar p 29, 1971 Oct. p 44, 1975 Oct p 53 Lambertson, Glen, 1956 Nov p 64 Lambeth Company, 1971 Aug. p 15 Lamborg, Marvin, 1963 Mar p 83 Lamfrom, Hildegarde, 1958 Dec p 58 Laming-Emperaire, Annette, 1953 Aug. p 35, 1968 Feb p 60 Lamm, O, 1951 June p 48 Lamme Alfred T, 1974 Dec p 68 Lamont Geological Observatory, see Columbia University Lamont Geological Observatory Lamont, Thomas W, 1956 Dec p 83, 84 Lamphier, Timothy A, 1957 Jan p 67 Lampland, C O, 1953 May p 70, 1973 Dec p 39 Lamport, D A, 1968 June p 107 Lampson, George P, 1963 Oct p 46, 1971 July p 27 Lancaster, Jane B, 1978 Apr p 104 Lancefield, Rebecca, 1959 Jan p 41 Lancel, S., 1978 Jan p 111 Lancisi, Giovanni, 1950 June p 44, 1952 June Land, Edwin H , 1959 Mar p 62, Apr p 138, 1962 Nov p 126, 129, 1966 Mar p 55, 1972 June p 100, July p 50, 1976 Feb p 58, 59, 1977 Dec p 108 Land, M F, 1971 Jan p 65 Landa, Diego de, 1978 May p 92 Landau, Joseph V, 1958 Oct p 43, 1977 June p 52 Landau, Lev D, 1948 June p 56, 1949 June p 34, 37, 1956 Aug. p 29, 31, 33, 1958 June p 32-34, 1960 Nov p 142, 150, 1962 Dec p 67, 1967 Mar p 117, Sept p 230, Nov p 28, 1970 May p 99, 100, 1971 Jan p 50, Mar p 80, 1973 May p 30 Landau, Lion, 1949 Nov p 27 Landau Robert, 1971 Mar p 45 Landauer, Walter, 1949 Oct p 48 Lande, Alfred 1965 May p 64, 1968 Jan p 73 Lander, James J., 1965 Mar p 39-41 Lander James J., 1973 May p 30, 34 Landergren, S, 1950 Aug p 44 Landis, Carney, 1954 Jan p 50, 51 Landisman, Mark, 1965 Nov p 37 Landon, John, 1972 July p 81 Landsberg, Hans H, 1970 Feb p 13, Sept p 184 Landsberg, Helmut E, 1949 Nov p 30, Dec p 30, 1967 Aug. p 20-23 Landsberger, Benno, 1951 Nov p 54, 1957 Oct Landseer, E., 1972 Sept p 86 Landsteiner, Ernest K. 1959 Oct p 58 Landsteiner, Karl, 1949 May p 16, 17, Dec p 14, 1951 Nov p 22, Dec p 47, 1954 Feb p 54, July p 79, 1957 Oct p 100, 102, 1961 Jan p 58, 1967 Oct p 84, Nov p 27, 1970 Aug p 34, 1973 Sept p 103, 1974 Nov p 29, 1976 May p 30, 1977 Jan p 50, June p 105 Landy John, 1976 June p 114 Lane, Bernard P. 1976 Mar p 30 Lane, C D , 1971 Dec. p 40 Lane, C. T., 1949 June p. 33-34 Lane, Charles 1976 Aug. p 87 Line Charles E., 1960 Mar p. 158, 1961 Feb p 132

p 49 Kranzberg, Melvin, 1970 Feb p 13 Krasılshchık, I M, 1956 Aug p 97 Krasne, S, 1972 Feb p 35 Krasnovsky, A A, 1953 Nov p 82 Krasnow, Frances, 1951 Feb p 32 Krateros, 1966 Dec p 104 Kratochwil, K, 1965 Nov p 80 Kratzenstein, Christian G, 1972 Feb p 50, 52 Kraus, Charles J, 1965 Oct p 57, 1967 Feb p 77 Kraus, F R, 1953 Jan p 27 Kraus, John D, 1953 Dec p 54, 1954 July p 35, 1955 Sept p 70, 1956 Apr p 60, Aug p 50, Sept p 220, Oct p 61, 1959 Aug p 47, 1961 Jan p 88, 1966 Aug p 37, 1973 Kraus, K A, 1955 Oct p 36 Krause, Arlington, 1955 Dec p 40, 43 Krause, Richard M, 1965 Dec p 69 Krause, Wilhelm, 1960 Oct p 121 Kraushaar, William, 1959 Nov p 140, 1969 Nov p 58 Krauss, Reinhard, 1972 Sept p 96 Krauss, Robert M, 1977 Feb p 100, 101 Kraut, Joseph, 1974 July p 80, 84, 88 Kraybill, H L, 1954 June p 30 Krayer, Otto, 1954 Aug p 68 Krebiozen Research Foundation, 1952 Jan Krebs, Edwin G, 1972 Aug p 97, 99, 100, 1977 Aug p 117 Krebs, Hans, Sir, 1949 Sept p 48, 1953 Dec p 48, 1954 Jan p 34, 1955 Mar p 53, 1957 July p 66, 1958 July p 59, 1961 Sept p 72, 1963 Nov p 112, 1967 Nov p 28, 1971 Oct p 17, 1973 Sept p 66 Krech, David, 1955 Feb p 58, 1965 Jan p 52, 1972 Feb p 24 Kreil, Gunther, 1976 Aug p 63 Kreil, Karl, 1971 Aug p 66 Kreisler, Michael N, 1970 Feb p 72, 76 Kreith, Frank, 1965 Dec p 81 Kreithen, Melvin L, 1974 Dec p 105, 106 Kremer, Henry, 1977 Oct p 74 Křenek, Ernst, 1967 Dec p 103 Krenke, N P, 1949 Oct p 24 Kressel, H, 1971 July p 32 Krestnikov, V N, 1977 Apr p 35 Kreth, Wolfgang, 1973 July p 55 Kretschmer, Roberto, 1969 Feb p 43 Kretsinger, Robert, 1975 Nov p 45 Kretzmer, Ernest R, 1972 Sept p 120, 38 Kretzoi, Miklos, 1966 Jan p 49, 1977 May p 31 Krieger, Ingeborg, 1972 July p 80 Krieger, Monty, 1974 July p 75, 79 Krikorian, Oscar H, 1977 Feb p 93 Krinskii, VI, 1974 June p 85 Kris, Ernst, 1956 Feb p 34, 1972 Sept p 94 Krishna, Narendra, 1964 Oct p 84 Kristensen, P, 1956 Mar p 94 Kristensson, Folke, 1965 Sept p 108 Kristiakowsky, George B, 1978 Feb p 76 Kristian, Jerome, 1969 July p 52, 1974 Dec p 35 Krock, Arthur, 1950 Mar p 24 Kroeber, A L, 1950 Sept p 21, 23, 92 Kroeger, H, 1961 Sept p 131, 136 Kroemer, Herbert, 1966 Aug p 30, 1971 July p 32 Kroger, Helen, 1966 July p 43 Kroger, Peter, 1966 July p 43 Krogh, August, 1949 July p 55, 1950 May p 29, Sept p 73, 1951 Oct p 70, 1953 Feb p 30, July p 60, 1954 Oct p 74, 1955 Aug p 56, 1956 Mar p 116, 1959 Jan p 56, 1962 Aug

p 79, 1965 May p 88, 1967 Apr p 97, Nov p 26, 1973 Apr p 100, 1974 Nov p 96, 100 Krogstad, R S, 1969 Dec p 90, 92 Krohn, A, 1972 Dec p 94 Krohn, Peter L, 1968 Mar p 35 Krohn, V E, 1957 Oct p 56, 1959 Mar p 82 Krolbs, Jerry K., 1963 Nov p 118 Kroll, Leon, 1965 Apr p 51 Kroll, Norman M, 1964 Apr p 46 Kroll, Wilhelm, 1949 Apr p 48-51, 1954 July p 37, 38 Kroll, William J, 1951 June p 20 Kron, G E, 1964 Jan p 39 Kronberger, Hans, 1969 Oct p 50 Kronecker, Leopold, 1964 Sept p 57, 1973 Mar p 101 Kronhuber, Hans H, 1973 July p 103 Kropf, Allen, 1967 June p 76 Kropotkin, Peter, 1977 Apr p 32 Kropp, William R, 1965 Oct p 38 Krotkov, Robert V, 1961 Dec p 91 Krueckel, Barbara, 1955 Feb p 58 Krueger, Bruce K, 1977 Aug p 115, 117 Kruesi, Honest John, 1959 Nov p 105, 108, Krug, H D, 1949 Feb p 42, 43 Krugh, Thomas, 1974 Aug p 89 Krugman, Saul, 1966 July p 33, 1970 Aug p 48, 1977 July p 44 Kruit, Piet van der, 1975 Aug p 33 Krukowski, Stefan, 1976 Feb p 88, 90, 96 Krummel, O, 1956 Jan p 98, 99 Kruse, Walther, 1960 Dec p 88 Krusen, F, 1952 Feb p 52 Krushinsky, L V, 1968 June p 68, 73, 74 Kruskal, Joseph B, 1978 Jan p 107 Kruskal, Martin D, 1972 July p 68, 69 Kruszewski, Mikolaj, 1972 Sept p 73 Krutilla, John V, 1963 Apr p 49 Kruuk, Hans, 1973 Dec p 104 Kryolitselskabet Oresund A/S, 1977 Mar p 99 Krzeminski, Vojtek, 1975 Mar p 26 Krzeminski, W, 1962 Apr p 62, 63 Ktesias, 1968 Oct p 113 Ktesibios, 1970 Oct p 110, 111, 113 Kubicka, Jiri, 1975 Mar p 98 Kubie, Lawrence S, 1952 Nov p 40, 1953 Dec p 58, 1954 Mar p 48, 1960 Mar p 152 Kubis, Joseph F, 1967 Jan p 29, 30, 31 Kubitschek, Wilhelm, 1974 Dec p 126, 127 Kublai Kahn, 1958 June p 74 Kublai Khan, 1976 June p 55 Kubler, Helga, 1963 Nov p 117 Kuboyana, Aikicki, 1954 Nov p 48 Kubsch, Flora, 1963 Feb p 128 Kudryavtsev, V S, 1960 Nov p 100 Kuehne, M E, 1958 Oct p 56 Kuenen, Philip H, 1956 Aug p 40, 1960 Apr p 95, Aug p 81 Kuettner, Klaus, 1976 May p 64 Kuffler, Damien, 1974 Jan p 38 Kuffler, Stephen W, 1961 Sept p 224, 226, 1963 Nov p 54, 57, 58, 1969 May p 107, 109, 1970 May p 79, July p 61, 1972 Sept p 47, 48, 1977 Feb p 118 Kugelman, Thomas P, 1968 May p 113 Kuhar, Michael J., 1977 Mar p 48, 51 Kuhi, L V, 1967 Aug p 35 Kuhn, A, 1962 Apr p 102. Kuhn, C G, 1957 Mar p 107 Kuhn, K., 1963 Apr p 114 Kuhn, Richard, 1949 Dec p 17, 1951 Mar p 38, 1967 Nov p 27, 28, 1973 Sept p 121 Kuhn, Werner, 1955 Sept p 61, Oct p 35, 1957 Apr p 102 Kuhne, Walter, 1949 Mar p 42 Kuhne, Willy 1948 Dec p 30, 1950 Aug. p 37

38, 39, 40, 1951 June p 61, 1952 Dec p 19, 1960 Oct p 121, 1967 June p 72, 1968 June p 83, 1975 Mar p 64 Kuijper, J, 1952 May p 52 Kuiper, Gerard P, 1948 May p 41, 1949 Oct p 29, Dec p 29, 1950 July p 28, Oct p 15, 1951 July p 26, 1952 Oct p 55, 57, 1953 May p 66, 67, 69, 70, 72, 1954 Nov p 41, 1956 May p 56, 1957 Feb p 64, 1959 Apr p 93, 95, 98, 1960 Apr p 61, May p 64, 66, 67, 1961 May p 58, 61, 62, June p 114, 1964 Sept p 80, 1966 Jan p 48, 62, 1974 Mar p 51, 1975 Jan p 27, Sept p 134, 143, 149 153, 61, 1976 May p 111, 113, 1977 Feb p 32, 1978 Jan p 43 Kuiper, Ian, 1977 July p 111 Kuiper, Jan W, 1977 July p 108 Kuiper, Nicolaas, 1966 May p 112 Kukarkın, Borıs V, 1949 Dec p 20, 1952 Nov p 46, 1959 July p 48 Kukulcan, 1955 May p 82, 84, 88 Kulagina, Nina, 1965 Mar p 57 Kuleshova, Rosa, 1965 Mar p 57 Kulikowski, Janos, 1977 Jan p 60 Kulischer, Eugene, 1974 Sept p 101 Kullenberg, Borje, 1950 Aug p 43, 1958 Feb p 57, 1960 Feb p 126 Kuller, Lewis, 1968 July p 25 Kulp, J Laurence, 1952 Feb p 31, 1956 Dec p 86, 92, 94, 1957 Aug p 56, 1960 Oct p 87, 1967 Mar p 24 Kulpe, Oswald, 1964 Oct p 98 Kumamoto, Junji, 1972 Aug p 43 Kumar, Shiv S, 1977 Apr p 103 Kumar, Vimal, 1977 Apr p 34 Kumor, C Krishna, 1973 June p 36 K'un, Huang, 1972 Dec p 16 Kunau, Wolfgang, 1976 June p 40, 41 Kundig, Werner, 1976 Apr p 44 Kungler, J E, 1961 Apr p 80 Kunin, Calvin M, 1974 Nov p 20 Kunitz, Moses, 1948 Dec p 31-33, 1950 June p 33, Sept p 62, 1951 Dec p 45, 1953 Feb p 56, 1959 Aug p 119, 1961 Feb p 84, 1964 Dec p 68, 78 Kunkel, Henry G, 1951 Dec p 51, 1955 Mar p 69, 1960 Sept p 210 Kunkel, Louis O, 1953 June p 79, 86, 1960 Aug p 141, 144 Kunlın, Jean, 1961 Apr p 93 Kuno, Susumu, 1966 Sept p 168 Kunz, Dale, 1972 Oct p 108 Kunz, Jacob, 1952 Mar p 56 Kunz, Paul F, 1967 Mar p 50 Kunzler, J E, 1962 June p 62 63, 1965 Oct p 57, Apr p 70, 1967 Mar p 115, 1971 Nov p 22 Kuo, H L, 1956 Dec p 44 Kuo, J F, 1977 Aug p 117 Kuo, Zing Y, 1950 Apr p 55 Kupalov, P.S., 1954 Jan p. 54 Kupfer, Sidney R 1964 Feb p 72 Kupfermann, Irving 1970 July p 64 70 Kuppenan James E Jr. 1959 Feb p 66 June p 57, 1962 May p 55, 1963 Aug p 29 Kuppermann, Aron 1966 May p 61 Kuratowski, Casimir, 1950 Jan p 23 1964 Sept p 114 115 Kurchatov, Igor V 1956 June p 58 1966 Oct p 44, 1969 June p 23 38 1970 June p 49 Kurdyumov, G V 1955 Oct p 30 Kurien V, 1967 Dec p 122 Kurland Charles G 1961 July p 66 1976 Oct Kurland Leonard Γ, 1970 July p 42 Kurnit Norman A. 1965 Apr p 37 Kuroda Paul K. 1974 Jan p. 74, 1976 July

Oct p 40, 43, 1955 Oct p 33, 1958 Jan p 44, Mar p 68, 69, 1961 Apr p 138, June p 84, 1963 Apr p 68, 1967 Nov p 27, 30, 1970 Aug. p 24, Oct p 65, 1972 Apr p 23, 1974 Feb p 74, 1975 Oct p 107, 1978 June Lawrence, H Sherwood, 1972 June p 36 Lawrence, John H, 1949 Dec p 29, 1955 Dec Lawrence Livermore Laboratory, see University of California at Berkeley Lawrence Livermore Radiation Laboratory Lawrence, Philip, 1955 Nov p 61 Lawrence, R. F, 1968 July p 109-111 Lawrence Scientific School, 1949 July p 50 Lawrence, Thomas, Sir, 1960 June p 107 Lawrence, Walter, 1062 Apr p 146 Lawrence, William, 1959 May p 62 65 Lawrence, Willis G, 1961 Jan p 95 Lawne, T D V, 1977 Feb p 83 Lawry, Sylvia, 1970 July p 40, 42 Laws, Robert, 1972 Nov p 82 Lawson, Harry J, 1973 Mar p 86 Lawson, John D, 1956 Feb p 64, 1968 Sept p 84 Lawson John D, 1971 Feb p 57, 59 Lawson, John D, 1972 Apr p 27, July p 67, 1974 June p 24 Lawson, Katherine, 1972 Nov p 76 Lawson, R N, 1967 Feb p 95, 97 Lawson, T J, 1976 Oct p 110 Lawton, Alexander R. III, 1974 Nov p 59 Lawton, Gerald W , 1968 May p 53 Lawton, Willard E , 1976 May p 91, 95, 96 Lax, Benjamin, 1963 July p 38, 1965 Apr p 73, Layleigh, R., Lord, 1959 Mar p 135 Layton, J M, 1968 Feb p 85 Layzer, David, 1972 Aug p 60, 1975 Dec p 56 Lazarev, B G, 1971 Apr p 84 Lazarides, Elias, 1978 Apr p 72 Lazarsfeld, Paul, 1967 Nov p 29 Lazurus, Arnold A, 1967 Mar p 84 Lazzanni-Robertson, Abel Jr, 1966 Aug p 51 le for names beginning thus, not listed here, see second element e g, for le Bel, Jules A, see Bel, Jules A le Le Blond, Robert D, 1974 Aug. p 48 Le Chatcher, Henri L, 1955 Oct p 101, 1976 June p 119 Le Comber, Peter, 1977 May p 42 Le Corbeiller, Philippe, 1953 Jan p 56, 1964 Sept p 67 Le Corbusier, 1961 Nov p 154, 1963 Sept p 189, 1974 Fcb p 99 Le Corbusier, see Jenneret Charles E. Le Moyne, Simon, 1971 Feb p 40 Le Pichon, Xavier, 1968 Apr p 57 1969 Sept p 140, 1972 May p 63 Le Rond d'Alembert Jean, see Alembert, Jean le Rond d' Lea, D E., 1953 Oct p 79 Leachman, Robert D 1969 Aug p 66, 1970 Oct p 60 Leacock, Stephen 1948 Sept p 25 Leaders, Robert W. 1967 Nov p 65, 1974 Fcb League of Nations 1948 July p 14, 1949 Fcb p 29, 1962 May p 90 1963 Sept p 61, 1970 May p 24 1976 Oct p 28 Leake, Chauncey D 1960 Leb p 66 Leakey, L S B 1958 July p 77 78 80, 1959 Nov p 88 1960 Sept p 64, 65 67, 1961 Feb p 70, Apr p 74 June p 71 Sept p 86, Oct p 119, 1962 May p 76, Dec p 56, 1963 Feb p 69, 1964 May p 62, July p 69 62, Aug p 43 1965 Min p 50 1966 Nov p 50 53

1967 Apr p 65, 66, 1969 June p 34, 56, Sept p 101, 1970 Jan p 81, 1971 Mar p 47, 1972 Jan p 96, 1973 June p 40, 1974 July p 109, 1976 May p 56, Dec p 118, 1977 May p 28, 30, 31, 35, 1978 Apr p 94 Leakey, Mary, 1960 Sept p 64, 65, 67, 1962 May p 76, Dec p 56, 1967 Apr p 65, Dec p 33, 1974 July p 109, 1976 Oct p 60, Dec p 118, 1977 May p 28, 35, Dec p 154, 1978 Apr p 94, 97, 99 Leakey, Richard E, 1969 Sept p 101, 1971 Mar p 46, 1973 June p 39, 1974 July p 110, Aug p 50, Dec p 64, 1976 Feb p 54B, Oct p 60, 1977 May p 35, 1978 Apr p 92, 94, 96 Leaman, Robin, 1974 Jan p 80 Lear, John, 1952 Feb p 31 Leary, Timothy, 1950 June p 46, 1977 Oct p 134, 135 Leavitt, Allan, 1955 Feb p 36 Leavitt, Henrietta S, 1950 Feb p 33, 1951 Feb p 26, 1953 June p 57, 59, 60, 1956 Sept p 79, 1959 July p 49-51, 53, 55, 1964 Jan p 32, 1970 June p 26, 1975 June p 70 Leavitt, Ronald, 1974 Feb p 32 LeBaron, Robert, 1975 Oct p 107 Lebedev, A. A., 1961 Jan p. 93 Lebedev, A F, 1960 Nov p 106 Lebedev, Peter N, 1957 June p 101, 104, 1960 July p 48, 53, 1972 Feb p 63 Lebedev, S V, 1956 Nov p 75 Lebek, G, 1967 Dec p 26 LeBel, Joseph, 1950 Sept p 32 Leben, C, 1955 June p 84 Leben, L L, 1956 May p 110 Lebenthal, Emanuel, 1972 Oct p 75 Lebesgue, Henri, 1964 Sept p 130, 96, 104, 1971 Aug p 95 Leblanc, Nicolas, 1951 Feb p 60 Lebleu, B, 1976 Aug p 69 Leblond, Charles, 1960 Mar p 122 Leblond, Charles P, 1963 Aug p 107, 1969 Feb p 103, 104, 1970 Oct p 86 Lebovits, Alexander, 1955 Oct p 48 Lebowitz, Joel L, 1975 Dec p 65 LeBrasseur, Robin, 1975 Mar p 79 LeBrie, Stephen J., 1963 June p 83 Lecar, Myron, 1975 Jan p 25 Lechevalier H A, 1949 Aug p 31 Leclerc Louis, 1955 Oct p 100 Leclercq, M, 1976 Aug p 69 Lecoq de Boisbaudran, 1951 Nov p 29 LeCraw, R. C 1968 June p 22, 23 Ledbetter Myron C 1968 Sept p 184 Leder Philip, 1964 Sept p 82, 1966 Oct p 56 57, 1968 Jan p 40, Dec p 49, 1977 May p 55 Lederberg, Esther M., 1956 July p. 116, 1976 Dec p 103 Lederberg Joshua 1948 Nov p 47, 1951 Oct p 23, 25, 1953 Oct p 78, 79, 1956 July p 113, 114 116, 1958 Aug. p 48, Nov p 38, 39, Dec p 52 1961 Jan p 38, June p 94, 101 1964 July p 86 1967 Nov p 28 1969 May p 97, 1974 July p 36, 1975 May p 42, 1977 Dec p 86 Lederberg Seymour 1955 Apr p 94 Lederer Edgar 1951 Mar p 38, 1977 May p 76 Lederle Laboratories 1949 Apr p 18, 19, 23, Aug. p 32 34 1952 Dec p 28, 1956 May p 62, 1958 July p 100 Lederman Leon M 1957 Mar p 63 1961 July p 20 74 1962 Aug. p 23, 1963 Dec p 120, 1964 Mar p 54 Oct p 59, 1966 Feb p 43, 1969 July p 36 1973 Aug p 33, 1977 Oct p 74 Ledger Anthony, 1967 Sept p 151

Ledinko, Nada, 1952 June p 34 Ledley, Robert S, 1966 Apr p 40, 45, Sept p 163 Leduc, Elizabeth H, 1969 May p 94 Leduc, Sylvestre A, 1961 Dec p 124 Lee, A J, 1951 Aug p 26 Lee, B W, 1974 July p 57 Lee, Benjamin W, 1978 Feb p 132 Lee, Bernard S, 1972 Oct p 30, 1976 July p 78 Lee, C Y, 1977 Sept p 226 Lee, Chen-Yuan, 1977 Feb p 109 Lee, Chi-Yuan, 1970 Feb p 31 Lee, David L, 1974 Nov p 28 Lee, David M, 1967 Aug p 85, 1974 Dec p 66, 1976 Dec p 56, 57 Lee, Edmund, 1970 Oct p 116 Lee Huang, Sylvia, 1972 Jan p 31 Lee, Isung Dao, 1957 Dec p 59 Lee, Kien-yin, 1975 Nov p 43 Lee, Leung, 1964 Mar p 43 Lee, P K, 1953 Feb p 72 Lee, Richard B, 1974 Sept. p 48, 1978 Apr p 102 Lee, Richard F, 1975 Mar p 77 Lee, S van der, 1963 May p 101 Lee, Sylvan B, 1952 Apr p 56 Lee, T D, 1958 Sept p 77, 80 82, 1961 July p 50, 1963 Mar p 64, 67, 70, Oct p 36, 40, 1964 Dec p 62, 1965 Dec p 28, 32, 1966 Feb p 43, July p 78, 1967 Jan p 100, Nov p 28, 29, 59, 1969 Oct p 90 Lee, Teh H, 1961 July p 101 Lee, Tsung-Dao, 1957 Mar p 62, Apr p 50, 1959 Mar p 72, 78, 84, 1966 Aug. p 41 Lee, Typhoon, 1978 Jan p 66 Leech, R. E, 1962 Sept p 220 Leeds and Northrup, 1956 Sept p 110 Lee-Franzini, Juliet, 1966 Aug p 42 Leeper, Robert, 1971 Dec p 66 Lees, Anthony D, 1960 Feb p 109, 111, 1976 Feb p 119 Lees, D R., 1975 Jan p 93 Lees, Robert, 1956 Aug p 67 Leeser, D O, 1954 Oct p 47 Leet, L Don, 1951 Mar p 30 Leetch, George N P, 1956 May p 54 Leete, Edward, 1959 July p 118 Leeuwen, G van, 1962 Apr p 77 Leeuwenhoek, Anton van, 1950 May p 52, 54, 1952 Aug p 63, Oct p 32, 1954 Dcc p 95, 1956 Oct p 90, 1957 Nov p 81, Dec p 118, 1960 Feb p 140, 1961 Feb p 108, Sept p 189, 1969 May p 92, 1971 Dec p 30, 1975 Aug. p 36, 44 Lefebree, Paul, 1974 July p 48 Lefevre, Theo, 1968 Mar p 48 LeFort, Patrick, 1977 Apr p 34 LefortTran, Marcelle, 1975 Oct p 33 Lefrançais de Lalande, Joseph J, see Lalande, Joseph J Lefrançais de Lefroy, John H., 1954 May p. 38 Lefschetz, S., 1950 Jan p 20 Legallois Cesar, 1966 Feb p 65 Legendre, Adrien M., 1958 Dec. p. 108, 1969 Nov p 89, 1977 May p 119, July p 124 Legendre, R 1967 Oct p 56 Leger, J Saint, 1971 June p 94 Legget, R F, 1960 Apr p 92 Leggett, Anthony J., 1976 Dec. p. 68 Lehane, Dermot, 1968 Nov p 50 Lehman, Ernst 1950 Nov p 32. Lehman F K, 1956 May p 74 Lehman, Paul R 1974 Nov p 80 82, 84, 87 Lehman Robert, 1968 Oct p 67, 75 Lehmann, Erich L., 1977 May p. 122 Lehmann Harvey, 1951 Sept p 46, 1952 May p 42.

Lane, Clayton, 1958 July p. 98. Lane, Dorothy, 1960 May p. 92; 1964 May p. 51. Lane, Lucy, see: Clifford, Lucy. Lang, Anton, 1974 Apr. p. 49. Lang, Dimitrij, 1973 Apr. p. 21. Lang, Gladys E., 1968 June p. 42. Lang, Herbert, 1963 Apr. p. 154. Lang, Kurt, 1968 June p. 42. Lang, Peter J., 1967 Mar. p. 84. Langan, Thomas A., 1975 Feb. p. 52; 1977 Aug. p. 119. Langbein, W. B., 1950 Nov. p. 15; 1966 June p. 60. Lange, John, 1972 Mar. p. 44. Lange, L. de, 1965 Apr. p. 123. Lange, R., 1974 July p. 35. Lange, Robert, 1949 Jan. p. 48, 49. Langen, Eugen, 1967 Mar. p. 107, 108, 112. Langenberg, Donald N., 1966 May p. 30; 1970 Oct. p. 62, 66; 1973 Dec. p. 55. Langer, Carl, 1959 Oct. p. 72. Langer, Jerome, 1976 Oct. p. 53. Langer, William L., 1972 July p. 76; 1976 Oct. p. 27. Langevin, Paul, 1949 Mar. p. 53; Dec. p. 47-49; 1957 June p. 104, 106, 108. Langham, Wright H., 1956 Nov. p. 135; 1959 June p. 76. Langley, J. N., 1950 Sept. p. 71; 1974 June p. 59. Langley, John W., 1969 Feb. p. 21. Langley Porter Neuropsychiatric Institute, 1965 Mar. p. 89. Langley, Samuel P., 1949 Dec. p. 35; 1965 Aug. p. 23. Langlois, G., 1969 Oct. p. 43. Langlois, T. H., 1950 Apr. p. 55. Langlykke, Asger F., 1952 Apr. p. 50, 56. Langman, Louis, 1949 June p. 26. Langmore, John, 1970 Aug. p. 48. Langmuir, Alexander, 1956 Jan. p. 52. Langmuir, Irving, 1948 Oct. p. 17; 1949 Dec. p. 14; 1950 Apr. p. 48, 51, 52; May p. 22; Sept. p. 48; Oct. p. 39; 1952 Jan. p. 17-20; 1953 Feb. p. 76; 1954 Feb. p. 47; 1956 Jan. p. 101; 1957 Aug. p. 83; Oct. p. 43, 87, 88; 1961 Mar. p. 152; 1965 May p. 67; 1966 Nov. p. 86; 1967 Nov. p. 27; 1970 Mar. p. 108, 112; 1971 Dec. p. 50; 1974 May p. 65. Langmuir, Robert V., 1957 Mar. p. 53. Langridge, Robert, 1966 June p. 51; Sept. Langsdorf, Alexander Jr., 1951 Jan. p. 30. Langseth, Marcus G. Jr., 1972 Jan. p. 47. Langston, Don, 1969 Feb. p. 15, 16. Lankard, John R., 1967 June p. 83; 1969 Feb. p. 30. Lankester, Edwin, 1972 Feb. p. 96. Lanney, W., 1957 May p. 40. Lanning, Edward P., 1966 Apr. p. 51; 1967 Nov. p. 45, 46; 1971 Apr. p. 45. Lanphier, Edward H., 1967 May p. 37, 39; 1968 Aug. p. 68. Lansdown, Edward L., 1968 Aug. p. 92. Lansing, Albert I., 1951 June p. 63; 1953 Apr. p. 41. Lansing, Robert W., 1959 Aug. p. 91. Lanston, Tolbert, 1969 May p. 64, 65. Lantz, P. W., 1950 Apr. p. 43. Lao-tse, 1950 Sept. p. 22. Laplace, Emile de, 1954 June p. 81. Laplace, Pierre S. de, 1948 May p. 44; June p. 56; 1950 Sept. p. 41; 1952 Sept. p. 59; 1953 Sept. p. 128, 132, 138; Nov. p. 93; 1954 May p. 37-39, 82; June p. 76-81; Sept. p. 60; 1955 Feb. p. 80; 1956 May p. 85, 87; Sept. p. 79; 1958 Sept. p. 82; 1960 July p. 47; Oct. p. 158,

160; 1962 Dec. p. 49-51, 124; 1963 Feb. p. 110; 1964 Sept. p. 92, 95, 96, 104; 1965 Apr. p. 113; May p. 88; 1966 Jan. p. 110; 1972 May p. 40; 1975 Sept. p. 33; Dec. p. 69. Laporte, Otto, 1954 Sept. p. 132. Lapp, Ralph, 1955 Apr. p. 46; Nov. p. 62; 1971 Nov. p. 48. Laqueur, Ernst, 1955 Jan. p. 56. Larch, Almon E., 1961 June p. 84. Lardy, Henry, 1954 Jan. p. 35. Lardy, Henry A., 1955 May. p. 54; 1966 Dec. p. 126; 1968 Feb. p. 32, 34. Large, E. C., 1952 Jan. p. 29. Large, Michael I., 1968 Dec. p. 50; 1971 Dec. p. 28. Larimer, J. W., 1975 Feb. p. 30. Larkin, A. I., 1971 Nov. p. 32. Larmor, Joseph, 1953 Nov. p. 93, 98; 1956 Nov. p. 104; 1957 June p. 104; 1965 July p. 70; 1966 Aug. p. 91; 1967 July p. 76, 79, 80, 83-86. Larmore, Lewis, 1968 Jan. p. 46. Larrabee, Martin G., 1965 Oct. p. 86; 1970 July Larramendi, Luis M. H., 1975 Jan. p. 60. Larrey, D. J., 1958 Nov. p. 130. Larry, D. J., 1954 Sept. p. 65. Larsen, Helge, 1954 June p. 84, 86. Larsen, Ole, 1977 Mar. p. 97. Larsen, Paul J., 1950 June p. 14. Larsen, Richard C., 1964 June p. 55. Larsen, Steven H., 1975 Aug. p. 43. Larsen, Thor, 1968 Feb. p. 112. Larsh, Almon E., 1963 Apr. p. 72. Larson, Donald A., 1968 Apr. p. 90. Larson, Harold P., 1976 Mar. p. 47. Larson, Howard K., 1964 Feb. p. 52. Larson, John, 1974 Aug. p. 88. Larson, John A., 1967 Jan. p. 25. Larson, Richard B., 1972 Aug. p. 59; 1973 Mar. p. 55; 1976 May p. 54. Larson, Roger L., 1977 Aug. p. 68, 94. Larson, Stephen M., 1974 Feb. p. 53; 1975 Sept. Larson, Steven H., 1976 Apr. p. 45, 46. Larsson, Folke, 1971 Mar. p. 27. Larsson, Per-Olof, 1971 Mar. p. 29. Larsson, Stig, 1956 Nov. p. 109. Larter, Edward N., 1974 Aug. p. 75. Lartet, Edouard, 1964 July p. 59, 60; Aug. p. 86, 89; 1972 Jan. p. 94. Lary, B. G., 1952 Jan. p. 36. Lasagna, Louis, 1954 Nov. p. 54; 1957 Aug. p. 62; 1966 Nov. p. 135. Lash, Don, 1952 Aug. p. 52. Lash, James W., 1962 Apr. p. 77. Lash, Trude W., 1976 July p. 66. Lasher, Gordon, 1963 July p. 38. Lashley, Karl S., 1948 Dec. p. 22; 1953 Sept. p. 124; 1954 Jan. p. 49; 1955 Feb. p. 70, 72, 77; 1958 Sept. p. 142; 1959 Nov. p. 71; 1960 Apr. p. 69; 1964 Jan. p. 42; 1965 Mar. p. 42, 44; 1967 Jan. p. 85; 1969 Jan. p. 73, 75, 76; 1970 Mar. p. 69; 1971 May p. 90; 1973 Dec. p. 110; 1976 Jan. p. 90. Lasker Foundation, 1955 Aug. p. 50. Lasker, Reuben, 1972 July p. 99. Laskowski, M. Sr., 1966 Feb. p. 34. Lasky, C., 1959 Feb. p. 64. Laslett, L. Jackson, 1972 Apr. p. 33. Lassalle, J. C., 1966 Nov. p. 64. Lasser, J. K., 1955 June p. 92. Laster, Leonard, 1958 Aug. p. 50. Lastovka, Joseph B., 1968 Sept. p. 124. Latané, Bibb, 1968 June p. 46. Latarjet, Raymond, 1959 Sept. p. 98. Latham, Gary, 1969 Sept. p. 89; 1970 Sept.

p. 86.

Latham, Thomas W., 1965 May p. 52. Lathrop, Jay W., 1977 Sept. p. 64. Latichev, George, 1949 May p. 26. Latimer, Hugh, 1976 Oct. p. 117. Latimer, Robert M., 1961 June p. 84; 1963 Apr. p. 72. Latimer, Wendell M., 1975 Oct. p. 107. Latter, Albert L., 1962 Feb. p. 72 Lattes, C. M. G., 1948 June p. 28, 35; 1949 Mar. p. 29, 38; July p. 42; 1950 Dec. p. 27; 1951 Feb. p. 20; 1953 Sept. p. 63; 1956 May p. 42; 1963 Mar. p. 63. Lattman, Eaton, 1975 Nov. p. 43. Latypov, A. A., 1963 Apr. p. 67. Laubach, G. D., 1955 Aug. p. 49. Laubengayer, A. W., 1966 July p. 97, 102. Laubereau, Alfred, 1973 June p. 60. Lauchli, A., 1973 May p. 54. Lauderman, N. S., 1962 Aug. p. 118. Laudon, Thomas, 1962 Sept. p. 166. Laue, Max von, 1949 June p. 29; 1950 Sept. p. 22, 23; 1952 Mar. p. 49; Dec. p. 40; 1953 Jan. p. 55; Sept. p. 54; 1957 June p. 72; 1961 Dec. p. 98; 1967 Nov. p. 26; 1968 Mar. p. 91; July p. 58; 1976 Apr. p. 96. Laufer, Berthold, 1969 Aug. p. 80. Lauffer, Max A., 1954 Nov. p. 50. Laughlin, C. D., 1963 May p. 89, 94. Laughlin, William S., 1958 Nov. p. 117. Laurell, Carl-Bertil, 1958 Oct. p. 58; 1968 May p. 108. Laurelli, P., 1973 Nov. p. 42. Laurence, E. B., 1967 July p. 44. Laurence, William L., 1953 Jan. p. 30; 1954 May p. 48. Laurent, Pierre, 1969 Apr. p. 80. Laurent, Torvard C., 1962 Mar. p. 64. Laurie, A. P., 1952 July p. 22. Laurie, Alec H., 1949 July p. 53, 55. Lauritsen, Charles C., 1948 Oct. p. 24; 1949 Feb. p. 17; 1964 Jan. p. 108; 1969 July p. 30. Lauritsen, Thomas, 1968 May p. 21. Lautemann, E., 1963 Nov. p. 96, 98. Lavachery, H., 1949 Feb. p. 50. Lave, Lester, 1974 Jan. p. 24. Lavender, Ray, 1961 Apr. p. 59. Laver, Graeme, 1977 Dec. p. 103, 104. Laveran, Charles L. A., 1962 May p. 86; 1967 Nov. p. 26; 1970 June p. 124. Laverick, Charles, 1967 Mar. p. 120. Lavine, Leroy S., 1965 Oct. p. 21. Lavoisier, Antoine L., 1945 Sept. p. 84; 1948 Aug. p. 26; 1949 Jan. p. 45; 1950 Sept. p. 32; 1952 Aug. p. 15; 1953 Jan. p. 40; 1954 June p. 80; Sept. p. 60; 1956 May p. 85-88, 91, 92, 94; 1957 June p. 63; 1958 Mar. p. 96; July p. 56; 1960 Jan. p. 138; June p. 106, 110, 112, 113; Sept. p. 189; Oct. p. 158, 160; 1965 May p. 88; 1968 Jan. p. 116, 117; June p. 54; 1969 Jan. p. 130; 1970 Sept. p. 137; Nov. p. 104; 1972 Dec. p. 84; 1975 Nov. p. 102; 1976 May p. 106; 1977 Mar. p. 68. Lavrentiev, Mikhail, 1949 May p. 26. Law, John H., 1966 May p. 53; 1967 July p. 17. Law, Lloyd W., 1956 Feb. p. 48; 1964 July p. 69; 1969 Oct. p. 50. Lawes, Charles, 1976 June p. 111, 114. Lawes, John B., 1965 June p. 65. Lawick-Goodall, Jane van, 1973 Jan. p. 33, 34, Lawn, A. M., 1967 Dec. p. 23. Lawrence, Abbot, 1949 July p. 50. Lawrence, Barbara, 1975 Dec. p. 54. Lawrence, David, 1950 Mar. p. 24. Lawrence, Ernest O., 1948 June p. 27, 29, 30; 1949 Dec. p. 14; 1950 Apr. p. 44; Sept. p. 30,

31; 1951 Nov. p. 33; 1953 Jan. p. 38; 1954

Oct. p 40, 43, 1955 Oct p 33, 1958 Jan p 44, Mar p 68, 69, 1961 Apr p 138, June p 84, 1963 Apr p 68, 1967 Nov p 27, 30, 1970 Aug p 24, Oct p 65, 1972 Apr p 23, 1974 Feb p 74, 1975 Oct p 107, 1978 June p 70 Lawrence, H. Sherwood, 1972 June p. 36 Lawrence, John H, 1949 Dec p 29, 1955 Dec p 60, 68 Lawrence Livermore Laboratory, see University of California at Berkeley Lawrence Livermore Radiation Laboratory Lawrence, Philip, 1955 Nov p 61 Lawrence, R. F., 1968 July p 109-111 Lawrence Scientific School, 1949 July p 50 Lawrence, Thomas, Sir, 1960 June p 107 Lawrence, Walter, 1062 Apr p 146 Lawrence, William, 1959 May p 62-65 Lawrence, Willis G, 1961 Jan p 95 Lawne, T D V, 1977 Feb p 83 Lawry, Sylvia, 1970 July p 40, 42 Laws, Robert, 1972 Nov p 82 Lawson, Harry J, 1973 Mar p 86 Lawson, John D, 1956 Feb p 64, 1968 Sept p 84 Lawson John D, 1971 Feb p 57, 59 Lawson, John D, 1972 Apr p 27, July p 67, 1974 June p 24 Lawson, Katherine, 1972 Nov p 76 Lawson, R. N, 1967 Feb p 95, 97 Lawson, T J, 1976 Oct p 110 Lawton, Alexander R III, 1974 Nov p 59 Lawton, Gerald W , 1968 May p 53 Lawton, Willard E , 1976 May p 91, 95, 96 Lax, Benjamin, 1963 July p 38, 1965 Apr p 73, 78 Layleigh, R, Lord, 1959 Mar p 135 Layton, J M, 1968 Feb p 85 Layzer, David, 1972 Aug p 60, 1975 Dec p 56 Lazarev, B G, 1971 Apr p 84 Lazandes, Elias, 1978 Apr p 72 Lazarsfeld, Paul, 1967 Nov p 29 Lazurus, Arnold A, 1967 Mar p 84 Lazzanni-Robertson, Abel Jr., 1966 Aug p 51 le for names beginning thus, not listed here, see second element e g, for le Bel, Jules A, see Bel, Jules A le Le Blond, Robert D, 1974 Aug p 48 Le Chateher, Henri L , 1955 Oct p 101, 1976 Junep 119 Le Comber, Peter, 1977 May p 42 Le Corbeiller, Philippe, 1953 Jan p 56, 1964 Sept p 67 Le Corbusier, 1961 Nov p 154, 1963 Sept P 189, 1974 Feb p 99 Le Corbusier, see Jenneret, Charles E. Le Moyne, Simon, 1971 Feb p 40 Le Pichon, Xavier, 1968 Apr p 57, 1969 Sept p 140, 1972 May p 63 Le Rond d'Alembert, Jean, see Alembert, Jean le Rond d' Lea D E, 1953 Oct p 79 Leachman Robert D. 1969 Aug. p 66 1970 Leacock, Stephen, 1948 Sept. p. 25 Leaders, Robert W., 1967 Nov p 65, 1974 Feb League of Nations, 1948 July p. 14, 1949 Feb. p 29, 1962 May p 90, 1963 Sept p 61, 1970 May p 24, 1976 Oct p 28 Leake, Chaunces D., 1960 Feb p 66 Leakey, L. S. B. 1958 July p. 77, 75, 80, 1959 Vov p 88, 1960 Sept p 64 65, 67, 1961 Feb p 70, Apr p 74, June p 71, Sept p 86, Oct p 119, 1562 May p 76, Dec p 86, 1963 Feb P 69, 1964 Min p 62 July p (0 62, Aug P 47, 1465 May p 50, 1966 Nov p 50, 53,

1967 Apr p 65, 66, 1969 June p 34, 56, Sept p 101, 1970 Jan p 81, 1971 Mar p 47, 1972 Jan p 96, 1973 June p 40, 1974 July p 109, 1976 May p 56, Dec p 118, 1977 May p 28, 30, 31, 35, 1978 Apr p 94 Leakey, Mary, 1960 Sept p 64, 65, 67, 1962 May p 76, Dec p 56, 1967 Apr p 65, Dec p 33, 1974 July p 109, 1976 Oct p 60, Dec p 118, 1977 May p 28, 35, Dec p 154, 1978 Apr p 94, 97, 99 Leakey, Richard E, 1969 Sept p 101, 1971 Mar p 46, 1973 June p 39, 1974 July p 110, Aug p 50, Dec p 64, 1976 Feb p 54B, Oct p 60, 1977 May p 35, 1978 Apr p 92, 94, 96 Leaman, Robin, 1974 Jan p 80 Lear, John, 1952 Feb p 31 Leary, Timothy, 1950 June p 46, 1977 Oct p 134, 135 Leavitt, Allan, 1955 Feb p 36 Leavitt, Henrietta S, 1950 Feb p 33, 1951 Feb p 26, 1953 June p 57, 59, 60, 1956 Sept p 79, 1959 July p 49-51, 53, 55, 1964 Jan p 32, 1970 June p 26, 1975 June p 70 Leavitt, Ronald, 1974 Feb p 32 LeBaron, Robert, 1975 Oct p 107 Lebedev, A A, 1961 Jan p 93 Lebedev, A F, 1960 Nov p 106 Lebedev, Peter N, 1957 June p 101, 104, 1960 July p 48, 53, 1972 Feb p 63 Lebedev, S V, 1956 Nov p 75 Lebek, G, 1967 Dec p 26 LeBel, Joseph, 1950 Sept p 32 Leben, C. 1955 June p 84 Leben, L L, 1956 May p 110 Lebenthal, Emanuel, 1972 Oct p 75 Lebesgue, Henri, 1964 Sept p 130, 96, 104, 1971 Aug p 95 Leblanc, Nicolas, 1951 Feb p 60 Lebleu, B, 1976 Aug p 69 Leblond, Charles, 1960 Mar p 122 Leblond, Charles P, 1963 Aug p 107, 1969 Feb p 103, 104, 1970 Oct p 86 Lebovits, Alexander, 1955 Oct p 48 Lebowitz, Joel L, 1975 Dec p 65 LeBrasseur, Robin, 1975 Mar p 79 LeBrie, Stephen J., 1963 June p 83 Lecar, Myron, 1975 Jan p 25 Lechevalier, H A, 1949 Aug p 31 Leclerc, Louis, 1955 Oct p 100 Leclercq M, 1976 Aug p 69 Lecoq de Boisbaudran, 1951 Nov p 29 LeCraw, R. C., 1968 June p 22, 23 Ledbetter Myron C, 1968 Sept p 184 Leder, Philip, 1964 Sept p 82, 1966 Oct p 56, 57, 1968 Jan p 40, Dec p 49, 1977 May p 55 Lederberg Esther M 1956 July p 116, 1976 Lederberg Joshua, 1948 Nov p 47, 1951 Oct p 23, 25, 1953 Oct p 78, 79, 1956 July p 113 114, 116, 1958 Aug p 48, Nov p 38, 39, Dec p 52, 1961 Jan p 58, June p 94, 101, 1964 July p 86, 1967 Nov p 28, 1969 May p 97, 1974 July p 36, 1975 May p 42, 1977 Dec p 86 Lederberg, Seymour, 1955 Apr p 94 Lederer, Edgar, 1951 Mar p 38, 1977 May p 76 Lederle Laboratones 1949 Apr p 18, 19 23, Aug p 32 34, 1952 Dec p 28, 1956 May p 62, 1955 July p 100 Lederman Leon M., 1957 Mar p 63, 1961 July p 50 74, 1502 Aug p 53, 1963 Dec p 130, 1564 Mar p 54, Oct p 59, 1966 Feb p 43, 1969 July p 36, 1973 Aug p 33 1977 Oct Ledger, Anthony, 1907 Sept p 181

Ledinko, Nada, 1952 June p 34 Ledley, Robert S, 1966 Apr p 40, 45, Sept. p 163 Leduc, Elizabeth H, 1969 May p 94 Leduc, Sylvestre A., 1961 Dec p 124 Lee, A J, 1951 Aug p 26 Lee, B W, 1974 July p 57 Lee, Benjamin W, 1978 Feb p 132 Lee, Bernard S, 1972 Oct p 30, 1976 July p 78 Lee, C Y, 1977 Sept p 226 Lee, Chen-Yuan, 1977 Feb p 109 Lee, Chi-Yuan, 1970 Feb p 31 Lee, David L, 1974 Nov p 28 Lee, David M, 1967 Aug p 85, 1974 Dec p 66, 1976 Dec p 56, 57 Lee, Edmund, 1970 Oct p 116 Lee Huang, Sylvia, 1972 Jan p 31 Lee, Isung Dao, 1957 Dec p 59 Lee, Kien-yin, 1975 Nov p 43 Lee, Leung, 1964 Mar p 43 Lee, P K, 1953 Feb p 72 Lee, Richard B, 1974 Sept p 48, 1978 Apr p 102 Lee, Richard F, 1975 Mar p 77 Lee, S van der, 1963 May p 101 Lee, Sylvan B, 1952 Apr p 56 Lee, T D, 1958 Sept p 77, 80-82, 1961 July p 50, 1963 Mar p 64, 67, 70, Oct p 36, 40, 1964 Dec p 62, 1965 Dec p 28, 32, 1966 Feb p 43, July p 78, 1967 Jan p 100, Nov p 28, 29, 59, 1969 Oct p 90 Lee, Teh H, 1961 July p 101 Lee, Tsung-Dao, 1957 Mar p 62, Apr p 50, 1959 Mar p 72, 78, 84, 1966 Aug p 41 Lee, Typhoon, 1978 Jan p 66 Leech, R. E, 1962 Sept p 220 Leeds and Northrup, 1956 Sept p 110 Lee-Franzini, Juliet, 1966 Aug. p 42 Leeper, Robert, 1971 Dec p 66 Lees, Anthony D, 1960 Feb p 109, 111, 1976 Feb p 119 Lees, D R., 1975 Jan p 93 Lees, Robert, 1956 Aug p 67 Leeser, D O, 1954 Oct. p 47 Leet, L Don, 1951 Mar p 30 Leetch, George N P, 1956 May p 54 Leete, Edward, 1959 July p 118 Leeuwen, G van, 1962 Apr p 77 Leeuwenhoek, Anton van, 1950 May p 52, 54, 1952 Aug p 63, Oct. p 32, 1954 Dec p 95, 1956 Oct p 90, 1957 Nov p 81, Dec p 118, 1960 Feb p 140, 1961 Feb p 108, Sept p 189, 1969 May p 92, 1971 Dec p 30, 1975 Aug p 36, 44 Lefebree, Paul, 1974 July p 48 Lefevre, Theo, 1968 Mar p 48 LeFort, Patrick, 1977 Apr p 34 LefortTran, Marcelle, 1975 Oct p 33 Lefrançais de Lalande, Joseph J. sce Lalande, Joseph J Lefrançais de Lefroy, John H. 1954 May p 38 Lefschetz, S., 1950 Jan p 20 Legallois, Cesar, 1966 Feb p 65 Legendre, Adrien M., 1958 Dec. p. 108, 1969 Nov p 89, 1977 May p 119, July p 124 Legendre, R., 1967 Oct p 56 Leger, J Saint, 1971 June p 94 Legget, R F, 1960 Apr p 92 Leggett, Anthony J. 1976 Dec p 68 Lehane, Dermot, 1968 Nov p 50 Lehman, Ernst, 1950 Nov p 32 Lehman, F K. 1956 May p 74 Lehman, Paul R. 1974 Nov p 50, 82 84, 87 Lehman, Robert, 1965 Oct p 67, 75 Lehmann, Erich L., 1977 May p. 122 Lehmann, Harvey, 1951 Sept. p. 46, 1952 May

Lane, Clayton, 1958 July p 98 Lane, Dorothy, 1960 May p 92, 1964 May p 51 Lane, Lucy, see Chifford, Lucy Lang, Anton, 1974 Apr p 49 Lang, Dimitry, 1973 Apr p 21 Lang, Gladys E, 1968 June p 42 Lang, Herbert, 1963 Apr p 154 Lang, Kurt, 1968 June p 42 Lang, Peter J. 1967 Mar p 84 Langan, Thomas A , 1975 Feb p 52, 1977 Aug Langbein, W B, 1950 Nov p 15, 1966 June Lange, John, 1972 Mar p 44 Lange, L de, 1965 Apr p 123 Lange, R, 1974 July p 35 Lange, Robert, 1949 Jan p 48, 49 Langen, Eugen, 1967 Mar p 107, 108, 112 Langenberg, Donald N, 1966 May p 30, 1970 Oct p 62, 66, 1973 Dec p 55 Langer, Carl, 1959 Oct p 72 Langer, Jerome, 1976 Oct p 53 Langer, William L, 1972 July p 76, 1976 Oct Langevin, Paul, 1949 Mar p 53, Dec p 47-49, 1957 June p 104, 106, 108 Langham, Wright H, 1956 Nov p 135, 1959 June p 76 Langley, J N, 1950 Sept p 71, 1974 June p 59 Langley, John W, 1969 Feb p 21 Langley Porter Neuropsychiatric Institute, 1965 Mar p 89 Langley, Samuel P, 1949 Dec p 35, 1965 Aug p 23 Langlois, G, 1969 Oct p 43 Langlois, T H, 1950 Apr p 55 Langlykke, Asger F, 1952 Apr p 50, 56 Langman, Louis, 1949 June p 26 Langmore, John, 1970 Aug p 48 Langmuir, Alexander, 1956 Jan p 52 Langmuir, Irving, 1948 Oct p 17, 1949 Dec p 14, 1950 Apr p 48, 51, 52, May p 22, Sept p 48, Oct p 39, 1952 Jan p 17-20, 1953 Feb p 76, 1954 Feb p 47, 1956 Jan p 101, 1957 Aug p 83, Oct p 43, 87, 88, 1961 Mar p 152, 1965 May p 67, 1966 Nov p 86, 1967 Nov p 27, 1970 Mar p 108, 112, 1971 Dec p 50, 1974 May p 65 Langmuir, Robert V, 1957 Mar p 53 Langridge, Robert, 1966 June p 51, Sept p 162 Langsdorf, Alexander Jr, 1951 Jan p 30 Langseth, Marcus G Jr, 1972 Jan p 47 Langston, Don, 1969 Feb p 15, 16 Lankard, John R, 1967 June p 83, 1969 Feb Lankester, Edwin, 1972 Feb p 96 Lanney, W, 1957 May p 40 Lanning, Edward P, 1966 Apr p 51, 1967 Nov p 45, 46, 1971 Apr p 45 Lanphier, Edward H, 1967 May p 37, 39, 1968 Aug p 68 Lansdown, Edward L, 1968 Aug p 92 Lansing, Albert I, 1951 June p 63, 1953 Apr Lansing, Robert W, 1959 Aug p 91 Lanston, Tolbert, 1969 May p 64, 65 Lantz, P W, 1950 Apr p 43 Lao-tse, 1950 Sept p 22 Laplace, Emile de, 1954 June p 81 Laplace, Pierre S de, 1948 May p 44, June p 56, 1950 Sept p 41, 1952 Sept p 59, 1953 Sept p 128, 132, 138, Nov p 93, 1954 May p 37-39, 82, June p 76-81, Sept p 60, 1955 Latham, Gary, 1969 Sept p 89, 1970 Sept Feb p 80, 1956 May p 85, 87, Sept p 79, 1958 Sept p 82, 1960 July p 47, Oct p 158,

160, 1962 Dec p 49-51, 124, 1963 Feb p 110, 1964 Sept p 92, 95, 96, 104, 1965 Apr p 113; May p 88, 1966 Jan p 110, 1972 May p 40, 1975 Sept p 33, Dec p 69 Laporte, Otto, 1954 Sept p 132 Lapp, Ralph, 1955 Apr p 46, Nov p 62, 1971 Nov p 48 Laqueur, Ernst, 1955 Jan p 56 Larch, Almon E, 1961 June p 84 Lardy, Henry, 1954 Jan p 35 Lardy, Henry A , 1955 May p 54, 1966 Dec p 126, 1968 Feb p 32, 34 Large, E C, 1952 Jan p 29 Large, Michael I, 1968 Dec p 50, 1971 Dec p 28 Larimer, J W, 1975 Feb p 30 Larkin, A 1, 1971 Nov p 32 Larmor, Joseph, 1953 Nov p 93, 98, 1956 Nov p 104, 1957 June p 104, 1965 July p 70, 1966 Aug p 91, 1967 July p 76, 79, 80, 83-86 Larmore, Lewis, 1968 Jan p 46 Larrabee, Martin G, 1965 Oct p 86, 1970 July Larramendi, Luis M H, 1975 Jan p 60 Larrey, D J, 1958 Nov p 130 Larry, D. J., 1954 Sept p 65 Larsen, Helge, 1954 June p 84, 86 Larsen, Ole, 1977 Mar p 97 Larsen, Paul J, 1950 June p 14 Larsen, Richard C, 1964 June p 55 Larsen, Steven H, 1975 Aug p 43 Larsen, Thor, 1968 Feb p 113 Larsh, Almon E, 1963 Apr p 72 Larson, Donald A, 1968 Apr p 90 Larson, Harold P, 1976 Mar p 47 Larson, Howard K, 1964 Feb p 52 Larson, John, 1974 Aug p 88 Larson, John A, 1967 Jan p 25 Larson, Richard B, 1972 Aug p 59, 1973 Mar p 55, 1976 May p 54 Larson, Roger L, 1977 Aug p 68, 94 Larson, Stephen M, 1974 Feb p 53, 1975 Sept p 131 Larson, Steven H, 1976 Apr p 45, 46 Larsson, Folke, 1971 Mar p 27 Larsson, Per-Olof, 1971 Mar p 29 Larsson, Sug, 1956 Nov p 109 Larter, Edward N, 1974 Aug p 75 Lartet, Edouard, 1964 July p 59, 60, Aug p 86, 89, 1972 Jan p 94 Lary, B G, 1952 Jan p 36 Lasagna, Louis, 1954 Nov p 54, 1957 Aug p 62, 1966 Nov p 135 Lash, Don, 1952 Aug p 52 Lash, James W, 1962 Apr p 77 Lash, Trude W, 1976 July p 66 Lasher, Gordon, 1963 July p 38 Lashley, Karl S, 1948 Dec p 22, 1953 Sept p 124, 1954 Jan p 49, 1955 Feb p 70, 72 77, 1958 Sept p 142, 1959 Nov p 71, 1960 Apr p 69, 1964 Jan p 42, 1965 Mar p 42, 44, 1967 Jan p 85, 1969 Jan p 73, 75, 76, 1970 Mar p 69, 1971 May p 90, 1973 Dec p 110, 1976 Jan p 90 Lasker Foundation, 1955 Aug p 50 Lasker, Reuben, 1972 July p 99 Laskowski, M Sr, 1966 Feb p 34 Lasky, C, 1959 Feb p 64 Laslett, L Jackson, 1972 Apr p 33 Lassalle, J C, 1966 Nov p 64 Lasser, J K, 1955 June p 92 Laster, Leonard, 1958 Aug p 50 Lastovka, Joseph B, 1968 Sept p 124 Latane, Bibb, 1968 June p 46 Latarjet, Raymond, 1959 Sept p 98

p 86

Latham, Thomas W, 1965 May p 52 Lathrop, Jay W, 1977 Sept p 64 Latichev, George, 1949 May p 26 Latimer, Hugh, 1976 Oct p 117 Latimer, Robert M, 1961 June p 84, 1963 Apr p 72 Latimer, Wendell M, 1975 Oct p 107 Latter, Albert L, 1962 Feb p 72 Lattes, C M G, 1948 June p 28, 35, 1949 Mar p 29, 38, July p 42, 1950 Dec p 27, 1951 Feb p 20, 1953 Sept p 63, 1956 May p 42, 1963 Mar p 63 Lattman, Eaton, 1975 Nov p 43 Latypov, A A, 1963 Apr p 67 Laubach, G D, 1955 Aug p 49 Laubengayer, A W, 1966 July p 97, 102 Laubereau, Alfred, 1973 June p 60 Lauchli, A , 1973 May p 54 Lauderman, N S, 1962 Aug p 118 Laudon, Thomas, 1962 Sept p 166 Laue, Max von, 1949 June p 29, 1950 Sept p 22, 23, 1952 Mar p 49, Dec p 40, 1953 Jan p 55, Sept p 54, 1957 June p 72, 1961 Dec p 98, 1967 Nov p 26, 1968 Mar p 91, July p 58, 1976 Apr p 96 Laufer, Berthold, 1969 Aug p 80 Lauffer, Max A, 1954 Nov p 50 Laughlin, C D, 1963 May p 89, 94 Laughlin, William S, 1958 Nov p 117 Laurell, Carl-Bertil, 1958 Oct p 58, 1968 May p 108 Laurelli, P, 1973 Nov p 42 Laurence, E B, 1967 July p 44 Laurence, William L, 1953 Jan p 30, 1954 May p 48 Laurent, Pierre, 1969 Apr p 80 Laurent, Torvard C, 1962 Mar p 64 Laurie, A P, 1952 July p 22 Laurie, Alec H, 1949 July p 53, 55 Lauritsen, Charles C, 1948 Oct p 24, 1949 Feb p 17, 1964 Jan p 108, 1969 July p 30 Lauritsen, Thomas, 1968 May p 21 Lautemann, E., 1963 Nov p 96, 98 Lavachery, H, 1949 Feb p 50 Lave, Lester, 1974 Jan p 24 Lavender, Ray, 1961 Apr p 59 Laver, Graeme, 1977 Dec p 103, 104 Laveran, Charles L A, 1962 May p 86, 1967 Nov p 26, 1970 June p 124 Laverick, Charles, 1967 Mar p 120 Lavine, Leroy S, 1965 Oct p 21 Lavoisier, Antoine L, 1945 Sept p 84, 1948 Aug p 26, 1949 Jan p 45, 1950 Sept p 32, 1952 Aug p 15, 1953 Jan p 40, 1954 June p 80, Sept p 60, 1956 May p 85 88, 91, 92, 94, 1957 June p 63, 1958 Mar p 96, July p 56, 1960 Jan p 138, June p 106, 110, 112, 113, Sept p 189, Oct p 158, 160, 1965 May p 88, 1968 Jan p 116, 117, June p 54, 1969 Jan p 130, 1970 Sept p 137, Nov p 104, 1972 Dec p 84, 1975 Nov p 102, 1976 May p 106, 1977 Mar p 68 Lavrentiev, Mikhail, 1949 May p 26 Law, John H, 1966 May p 53, 1967 July p 17 Law, Lloyd W, 1956 Feb p 48, 1964 July p 69, 1969 Oct p 50 Lawes, Charles, 1976 June p 111, 114 Lawes, John B, 1965 June p 65 Lawick Goodall, Jane van, 1973 Jan p 33, 34, Lawn, A M, 1967 Dec p 23 Lawrence, Abbot, 1949 July p 50 Lawrence, Barbara, 1975 Dec p 54 Lawrence, David, 1950 Mar p 24 Lawrence, Ernest O. 1948 June p 27, 29, 30, 1949 Dec p 14, 1950 Apr p 44, Sept p 30, 31, 1951 Nov p 33, 1953 Jan p 38, 1954

Levine, Philip, 1954 July p 79, 1974 Apr p 43 Levine, R P, 1970 Nov p 22, 1974 Dec p 26, Levine, Samuel A, 1968 July p 24 Levine, Seymour, 1960 May p 80, 1963 June p 140, 1966 Apr p 89, 1971 Jan p 26 Levinson, Eugene, 1977 Jan p 60, 64 Levinson, Zvi, 1965 July p 97 Levinstein, H J, 1968 Sept p 132 Levinthal, Cyrus, 1957 Sept p 192, 194, 1963 Mar p 91, 1966 June p 42, 49, Sept p 133, 162, 92, Nov p 87 Levi-Setti, Riccardo, 1962 Jan p 53 Levi-Strauss, Claude, 1972 Sept p 50, Nov p 88, 1975 Dec p 84 Levitan, Sam, 1977 Nov p 45 Levitsky, David A, 1972 Feb p 28 Levitsky, Walter, 1972 Feb p 29, Apr p 83 Levitt and Sons, 1965 Sept p 152, 153 Levitt, Barrie, 1975 Dec p 55 Levitt, Michael D, 1969 Sept p 95 Levitzki, Alexander, 1973 Oct p 58 Levoy, Myron, 1960 Mar p 73, 1961 Mar p 57 Levshin, V L, 1973 June p 45, 46 Levy, David, 1950 Mar p 39, 1973 June p 100, 101, 104, 1974 Nov p 52, 1977 June p 56 Levy, Elaine A, 1971 Aug p 47 Levy, Gerald S , 1962 Aug p 58, 1969 Mar p 80 Levy, Hilton B, 1969 Oct p 50, 1977 Apr p 49 Levy, Maurice, 1953 Sept p 63, 1971 Apr Levy, Richard H , 1972 Apr p 25, 26, 1977 Feb p 93 Levy, Sander, 1967 Feb p 90 Levy, Saul, 1975 Sept p 30, 1977 Apr p 96, 98 Levy, Walter J Jr, 1974 Aug p 68 Lew, Edward A, 1957 Dec p 62 Lewellen, John, 1949 Dec p 52, 53 Lewin, Kurt, 1948 Nov p 15 Lewin, Sherry, 1958 Nov p 92, 94 Lewin, W S, 1970 Feb p 86, 87, 1974 Mar p 45 Lewin, Walpole, 1968 Mar p 50 Lewin, Walter, 1975 Dec p 42 Lewin, Walter H G, 1977 Oct p 54, 55 Lewis, Aaron, 1976 June p 46 Lewis, Bernard, 1954 Sept p 116 Lewis, C S, 1971 Oct p 103 Lewis, Clayton, 1972 July p 84 Lewis, David H, 1956 Aug p 57 Lewis, Deborah, 1972 Feb p 41 Lewis, Edward B., 1959 Aug p 62, 1973 Dec p 28 Lewis, Edwin R, 1972 Jan p 66, 67, Sept p 35, 43, 1973 Jan p 70 Lewis, F John, 1960 Feb p 80 Lewis Flight Propulsion Laboratory 1953 Oct Lewis, Fulton Jr 1949 July p 26 1950 Jan Lewis, G Edward, 1964 July p 62, 1972 Jan p 96, 1976 May p 56, 1977 May p 30 Lewis G P, 1962 Aug. p 114 Levis, Gilbert N. 1950 Sept p 34, 1953 Dec p 74 1960 July p 106, Nov p 112, 1964 May p 71 73 74, 1967 June p 64, Nov p 29 1968 Sept p 164, 1971 Sept p 182 Lewis II B 1959 I cb p 51 I cais, Harry R 1978 Jan p 96, Mar p 128 Lewis Herman W 1957 Sept p 216, 1975 Sept p 53 leun Irong J 1971 Apr p 17 leun. I C 14641ch p 54 Lexis, John 5, 1974 Mar p 45, 1975 Sept.

p 136, 76, 1976 Mar p 47, 48, 51, 52, May p 113, 1977 Dec p 86, 1978 Mar p 70 Lewis, M J, 1966 Feb p 53, 1967 Dec p 25 Lewis, Malcolm, 1973 Apr p 25 Lewis, Meriwether, 1948 Dec p 14 Lewis, Oscar, 1966 Oct p 19, 1967 Oct p 21, 1969 Oct p 115 Lewis, P R, 1958 Dec p 88 Lewis, Paul A, 1957 Feb p 37 Lewis, R., 1969 Oct p 22 Lewis, Robert B, 1952 Feb p 56 Lewis, Roy S, 1971 June p 55, 1975 Feb p 31 Lewis, Thomas, Sir, 1961 Nov p 134, 1968 July Lewis, W Bennett, 1975 Oct p 21, 22 Lewis, Warren H, 1961 Apr p 122, Sept p 174 Lewit, Sarah, 1972 July p 51, 1977 Jan p 21 Lewontin, Richard C, 1970 Mar p 103, 104, 1974 Sept p 82, 1975 Aug p 55 Lewy, H, 1969 Mar p 70 Lexer, Erich, 1957 Apr p 62 Ley, Willy, 1957 Nov p 67 Leyson, Burr W, 1949 Dec p 52, 53 Lezzi, M., 1967 Nov p 71 L'Heritier, Philippe, 1950 Sept p 57, Nov p 33, 38 Li, Choh Hao, 1953 May p 58, 1955 Aug p 49, 1956 Nov p 70, 1961 Jan p 83, July p 102, 1963 Oct p 57, 1964 May p 62, 1977 Feb p 55, Mar p 55 Li, Ling-Fong, 1977 May p 56 Li, Tingye, 1972 Feb p 42 Li, Yao Tzu, 1972 Oct p 48 Liais, Emmanuel, 1953 May p 67 Liang Chow, Kao, 1969 Jan p 75, 80 Liao, Shutsung, 1976 Feb p 37 Liapunov, A M, 1949 Oct p 42, 1964 Sept Libavius, 1952 Oct p 76 Libbey-Owens-Ford, 1961 Jan p 101 Libby, Raymond, 1951 July p 60 Libby, Willard F, 1949 July p 43, Aug p 50, 1950 July p 20, 21, Nov p 26, 1951 Feb p 18, Nov p 34, 1952 Feb p 24, 25, Oct p 64, 1953 Apr p 46, 1954 Nov p 35, 48, Dec p 52, 1955 May p 50, July p 49, Aug p 46, Oct p 33, 1956 Apr p 78, Aug p 49, Dec p 56, 1958 Aug p 50, Dec p 54, 1959 Jan p 63, Apr p 64, May p 68, Sept p 86, 1960 Dec p 74, 1966 Jan p 82, 1967 Nov p 28, 1971 Oct p 66 68, 1975 May p 42 Liberia Mining Company, 1952 Jan p 52 Liberian Tubman National Institute of Medical and Applied Sciences, 1948 Dec p 27 Liburg M 1969 Dec p 28 Licari, Gerald R., 1969 Aug p 50, 1970 Sept p 112 Liceti Fortunio 1968 Oct p 115, 118 Lichtenberg Don B, 1966 Nov p 109 Lichtenstein A. 1968 Jan p 22 Lick, James, 1954 July p 77 Lick Observatory see University of California Lick Observatory Licklider, J C R 1966 Sept p 177, 1973 Oct p 95 102 Liddell Alice 1956 Apr p 116 Liddell, Howard S 1950 Mar p 39, 1953 Fcb p 35, 1956 Mar p 34, 1963 Nov p 43 Liddy B 1973 June p 60 Lidlington, Lord 1977 Dec p 88 Lie, Sophus 1964 Feb p 89, Sept p 78, 1975 Oct p 40 Lich, Charles C. 1971 Nov. p. 84 Lich, John W 1971 Leb p 110 Liebault A A, 1955 Nov p 31, 1957 Apr

Lieber, Charles S, 1975 May p 44 Lieberburg, Ivan, 1976 July p 51, 56 Lieberman, M A, 1976 June p 48 Lieberman, Purlaine, 1974 Feb p 45, 1977 Apr p 52 Liebermann, K. T., 1955 July p. 60, 1957 Feb p 114 Liebermann, Thomas R., 1971 Oct p 44 Lieberson, Stanley, 1965 Aug p 15 Liebig, Justus von, 1949 Aug p 16, 18, 1950 June p 33, Sept p 62, 1952 Oct p 76, 1953 Aug p 36, 1957 Feb p 110, 111, 117, June p 63, 1958 Mar p 95, 1959 July p 118, 1964 Aug p 46, 1965 June p 65, 1970 Sept p 167, 1976 Sept p 80, 84, 178 Liebman, Paul A, 1964 Dec p 54-56 Liebman, W T, 1950 Jan p 54 Liebmann, W K, 1967 Feb p 90 Liebowitz, M. R., 1961 Oct. p. 88 Liepins, Andrejs, 1977 May p 63 Liepmann, Hugo, 1972 Apr p 82 Lietzke, M H, 1956 Nov p 70 Lifshitz, Eugene M, 1960 July p 47, 52, 53, Nov p 139, 1962 Apr p 114, Dec p 68, 1964 Dec p 116, 1967 Aug p 85, Sept p 230, 1970 May p 99, June p 30 Lifton, Robert J, 1963 Feb p 72 Liggett, Barbara, 1972 Apr p 57 Liggins, G C, 1973 Apr p 82, 85 Light, F W Jr, 1952 July p 72-74 Light, H C, 1968 Sept p 194 Light Metals Refining Corporation, 1954 Sept p 117 Light, S F, 1953 May p 74, 76 Lighthill, James, 1975 Nov p 86 Lighthill, Michael J, 1968 Feb p 80 Lightman, Alan P, 1974 Nov p 28, 1977 Oct Lightstone, Jack, 1974 June p 56 Likens, Gene E, 1970 Sept p 158, 68, 69, Oct p 92, 1978 Jan p 36, 39, 40, 42, Mar p 93 Likhtman, E P, 1978 Feb p 136 Lilienfeld, Julius E, 1973 Aug p 48 Lilienthal, David E, 1948 Aug p 31, Oct p 24, 1949 July p 26, 31-33, Nov p 11, 12, 1950 Jan p 28, Mar p 24, May p 27, Aug p 28, Oct p 24, 1952 Feb p 34, 1954 June p 44, 1975 Oct p 109, 113 Lilienthal, Otto, 1961 June p 90, 1975 Nov p 81 Liljestrom, Rita, 1974 Sept p 146 Lill, Gordon, 1958 Dec p 56, 1959 Apr p 41, Aug p 66 Lillard, Richard G, 1948 June p 52 Lillegraven, Jason A , 1977 Aug p 79 Lillehei, C Walton, 1957 Feb p 60, 1960 Feb p 76,77,82 Lillehei, Clarence W., 1954 Aug. p. 24 Lillehei, Richard C. 1962 June p 80, 82 Liller, William, 1975 Mar p 29, 1977 Oct p 43, 55 Lilley, A Edward, 1956 Feb p 48, Sept p 129. Oct p 61, 1960 Jan p 51, 1963 July p 82, 84, 1965 July p 28, 31, 1968 Dec p 38, 43, 1977 June p 68, 76 Lillie, Charles F. 1974 Feb p 55 Lillie, Frank R., 1949 Sept p 16, 1950 Dec p 46, 1954 June p 70, 1959 July p 128 Lilhe, R S, 1957 Jan p 70 Lilliequist, Carl G 1973 Oct p 71 Lilliu, Giovanni, 1975 Feb p 81 Lilly, John C, 1952 Feb p 31, 1956 June p 55, Oct p 116, 1966 Fcb p 63 Lilly, Malcolm 1971 Mar p 26 Lilly white, Jack W 1969 June p 45 Lim, Robert K. 1963 Nov. p. 104 Linia Almeida, 1948 Oct p 37, 1950 Feb p 44

Lehmann, Inge, 1955 Scpt p 59, 1973 Mar p 26, 30 Lehmann, O, 1964 Aug p 77 Lehmer, D H, 1958 Dec p 106, 1964 Sept p 208, 1978 Feb p 90 Lehn, Jean-Marie, 1977 July p 98 Lehnert, B, 1967 July p 81-83 Lehnhardt, E, 1973 Oct p 96 Lehninger, Albert L. 1958 July p 61, 1960 Nov p 107, 1961 May p 55, Sept p 73, 1962 Dec p 129, 1964 Jan p 73, 1968 Feb p 32, 1978 Mar p 121 Leib, Fanny, 1960 July p 50 Leibnitz, Gottfried W von, 1948 May p 21, 22, June p 38, 1949 Apr p 32, May p 22, 1950 Apr p 15, 1952 Mar p 63, 68, Apr p 66, Nov p 76, 78, 1953 July p 66, 1954 Apr p 84, Sept p 60, 1955 July p 69, Oct p 100, 101, Dec p 76, 78, 1957 Apr p 45, 47, 1960 June p 53, 55, Oct p 164, 1964 Sept p 113, 203, 53, 1967 May p 134, Aug p 97, 1968 May p 95-98, 100, 1971 Aug p 93, 1972 June p 78, 80, 81, 82, 84, 86, Aug p 80, Dcc p 91, 1973 Mar p 103, Apr p 44, May p 92, July p 24, 1976 Apr p 104, 113, 65, Aug p 90, 91, 92, 93, 1977 Nov p 151 Leibowitz, H, 1949 June p 54, 1959 Nov p 95 Leigh, J S Jr, 1974 Dec p 77 Leighton, Alexander, 1954 Mar p 42 Leighton, Alexander H, 1962 Aug p 72 Leighton, D C, 1965 May p 21 Leighton, Robert B, 1951 June p 32, 1952 Jan p 24, 1953 Apr p 57, 1959 May p 52, 1960 Feb p 57, 58, 1965 Sept p 76, Oct p 42, 1966 Apr p 54, 56, May p 62, Nov p 58, 59, 1968 Jan p 102, 112, Dec p 44, 1969 Mar p 78, 84, Sept p 90, Dec p 52, 1970 May p 27, 1973 Mar p 56, Apr p 28 Leighty, J A, 1952 Apr p 56 Leim, A H, 1973 Mar p 96 Leinbach, Harold, 1962 Sept p 77 Leipuner, Lawrence B, 1956 Oct p 102, 1964 June p 55 Leipunskii, O I, 1975 Nov p 104 Leitenberg, Milton, 1968 Jan p 45 Leith, Emmett N, 1966 Jan p 48, 1968 Feb p 40, 1969 Jan p 76, 1971 Dec p 38, 1976 Oct p 80, 1977 Oct p 84 Leitz Orthoplan, 1973 Apr p 65 Lejeune Dirichlet, Peter G, 1951 July p 53 Lejeune, Jerôme, 1961 Nov p 72, 75, 1971 Nov p 34 Lekagul, Boonsong, 1976 May p 76 Leland, Henry M, 1973 Mar p 88 Lele, K. P., 1978 Feb p 119 Leloir, Luis, 1954 Jan p 34 Leloir, Luis F, 1970 Dec p 38 Lelong, Marcel, 1955 Dec p 43 Lelut, E, 1971 Jan p 98 Lely, Peter, 1954 Dec p 94 LeMagnen, J, 1963 May p 112 Lemaître, Abbe G, 1949 Mar p 38, 54, 1954 Mar p 58, 60, 62, 1956 Sept p 137, 145, 1958 Apr p 38, 1967 June p 28, 1970 Dec p 24 Lemaître, Canon, 1953 July p 81 Lemaître, Georges, 1951 May p 30 Lemal, David M, 1962 Nov p 99 LeMay, Curus E, 1949 Mar p 19, 1972 Nov p 22 Lembcke, Paul A, 1963 Aug p 22 Lemche, Henning, 1957 Sept p 114 Lemere, Frederick, 1957 Jan p 68 Lemieux, Raymond U, 1953 Nov p 56, 1966 Nov p 90 Lemkey, Frank D, 1967 Feb p 92, Sept p 161, 176

Lemmon, Richard M., 1963 Aug p 52, 1968 Oct p 52 Lemmons, Reuel G, 1964 Oct p 57 Lemoine, J, 1973 June p 46 Lemperle, Hermann, 1973 May p 27 Lempicki Alexander, 1963 July p 37, 1966 Oct p 48 Lempke, R E, 1952 Feb p 56 Lenard, Philipp, 1956 Nov p 94, 96, 98, 104, 1959 Sept p 74 Lenard, Philipp E A, 1974 Mar p 93 Lenard, Philipp von, 1967 Nov p 26 Lenfant, Claude, 1968 Oct p 103 Leng, E. R., 1958 Oct p 54 Leng, Marc, 1973 Aug p 25 Lengsfeld, Anneliese M, 1975 Mar p 96 Lengyel, Peter, 1962 Feb p 76, Mar p 68 Lenin Nikolai, 1950 June p 52 Lenin, Vladimir I, 1954 Sept p 82, 1961 May p 91, 1964 Sept p 131 Leningrad Academy of Sciences, 1977 Nov p 108 Lennox, Bernard, 1954 Dec p 60, 1963 July p 60 Lennox, Edwin S, 1964 Dec p 109, 1970 May p 80, 84, 1978 May p 147 Lenoir, Étienne, 1967 Mar p 105-108 Lenormant, Henri, 1957 Sept p 174 Lenox Hill Hospital 1958 Mar p 108 Lense, Joseph, 1959 May p 149, 165 Lenski, Lois, 1962 June p 71 Lenz, Emil, 1958 Nov p 32 Lenz, Widukind, 1962 Aug p 29, 31-34 Leo, Maria-Anna, 1976 Mar p 33 Leo X, Pope, 1957 Mar p 108 Leon, Pedro Cieza, 1952 Dec p 50, 1966 Apr p 73 Leonard, Donald A, 1970 July p 52 Leonard-Jones J E, 1970 Apr p 54 Leonardo da Vinci, 1948 June p 40, 1950 May p 51, Sept p 63, Nov p 16, 1951 Feb p 55, 56, 1953 Feb p 69, 1954 Mar p 34, 72, Nov p 63, 1955 Jan p 37, 81, 82, Oct p 38, 1956 May p 109, 124, 1958 Sept p 62-64, 1959 Sept p 158, 1963 Apr p 135-137, 1964 Jan p 104, May p 110, 111, 1966 June p 94, 1967 Apr p 39, 1970 May p 118, July p 18, Aug p 96-98 100, Sept p 102, 1971 Feb p 101 111, 1972 Sept p 91, Dec p 91, 1973 Nov p 71, 1975 July p 50, 1976 July p 117, Aug p 72 Leonardo of Pisa, 1973 Nov p 90 91 Leonards, Jack R, 1954 Aug p 26 Leoncavallo, 1975 July p 48 Leondes, Cornelius T, 1970 Mar p 80 Leonidas, 1961 Mar p 117 1966 July p 38 Leontic, B, 1962 Aug p 36 Leontief, Wassily W, 1952 Sept p 47, 1961 Apr p 48, 1963 Sept p 200 61, 1964 Sept p 180, 1965 Apr p 25, 1966 Apr p 27 28 1967 Sept p 261, 1973 Dec p 50 Leopold A C, 1965 Dec p 79 Leopold, A Carl, 1952 Nov p 50 Leopold, Duke of Albany, 1965 Aug p 90 Leopold I, Emperor, 1973 Sept p 35 Leopold, Luna B, 1952 Dec p 73, 1966 June p 60, 66, 69 Leopold, Nathan, 1959 Jan p 126 Leopold, Prince 1965 Aug p 88-91, 94 Leovy, Conway B, 1970 May p 27, 1977 July LePaige, Gustavo, 1967 Nov p 45 Lepenshinskaia, Olga B, 1958 Sept p 89, 1962 Nov p 49 Lepidus, Claudius A., 1961 June p. 130 Lepow, Irwin H, 1973 Nov p 54, 57 Leppik, E. E., 1951 Aug p 34

Leprince-Ringuet, Louis 1955 Oct p 33 Lerici Foundation, 1962 Feb p 94 Lerman, Leonard S, 1958 Oct p 54, 1971 Mar p 33, 1974 Aug p 85 Lerman, Sidney, 1959 Nov p 81, 1962 Apr p 80, 1975 Dec p 70 Lerman, Steven H, 1968 Sept p 102 Lerner, Aaron B, 1961 July p 102, 104, 1963 July p 48, 1965 July p 54, 53 Lerner, Eugenio, 1973 May p 39 Lerner, 1 M, 1966 July p 64 Lerner Marine Laboratory, 1962 June p 128, 1965 May p 81 Lerner Marine Laboratory, see American Museum of Natural History Lerner, Max, 1954 Feb p 44, June p 30 Lerner, Monroe, 1973 Sept p 62 Leroux, H, 1963 Nov p 96, 98 Les Eyzies Museum of Prehistory, 1964 Aug. LeSage, George L, 1953 Nov p 93 Lescarbault, 1949 Sept p 29 Lesieur, A J, 1971 Jan p 96 Lesk, Ann, 1973 Nov p 79 Lesko, Leonard H, 1978 Mar p 74 Leshe, Frank, 1959 Nov p 102, 103 Leslie Salt Company, 1963 July p 89 Lesser, F Ch, 1974 July p 28 Lessing, Lawrence P, 1955 Jan p 38, 1965 Nov p 59 Lester, David, 1963 Nov p 102 Lester, Henry A, 1977 Feb p 107, Aug p 117 Lester, Richard K, 1978 Mar p 45 Lestina, Juanita, 1955 Aug p 37 Leston, Dennis, 1977 Dec p 148, 151 Letavet, A A, 1955 Oct p 40 Letokhov, V S, 1973 Dec p 78, 79, 1977 Feb Lettvin, Jerome Y, 1960 June p 122, 1961 May p 135, 138, 1964 Mar p 113, 1969 May p 108, 109, 1971 June p 37 Leuchtenberger, Cecilie, 1962 July p 45 Leuchtenberger, Rudolph, 1962 July p 45 Leucippus, 1949 Nov p 48, 1950 Apr p 13, 1953 Sept p 52, 1967 May p 129, 1970 May p 117 Leupold, Jacob, 1971 Feb p 103 Levan Albert, 1961 Nov p 69, 1963 July p 55 Levassor, Emile, 1972 May p 102 103, 104 107, 109 110, 111 Levatin, Paul 1962 June p 119 Levene PA, 1953 Feb p 51 Leventhal Harold 1972 Nov p 52 Lever A F 1963 June p 88 Leverrier, Urbain 1956 Jan p 59 62, 1959 Apr p 86 98, May p 153, 1966 Sept p 164 1975 Sept p 131 Levesque Rene 1976 Nov p 122 Levey Raphael H 1956 May p 102, 1964 July p 66 69 Levi Civita Tullio 1950 Sept p 41 1964 Sept Levick William R, 1965 Jan p 50 1969 May p 109 111 Levi Montalcini Rita 1976 Dec p 52 Levin Gilbert V 1977 Nov p 59 Levin Jules S 1964 Mar p 83 Levin, Morton L 1950 July p 29 Levin P A, 1978 Jan p 107 Levin Ronald, 1976 Feb p 112 Levin Yehudi 1962 Mar p 64 Levine, David W 1978 Apr p 85 Levine, Lawrence 1973 Nov p 57 Levine, Leon 1950 Feb p 25 Levine Melvin, 1974 Nov p 22 Levine Milton I 1949 Dec p 54 Levine, Morton A., 1958 Mar p 51

Locke, William N , 1962 June p 71 Lockhart, James, 1958 Apr p 112 Lockhead, Gregory R., 1972 June p 100 Lockheed Aircraft Corporation, 1957 Nov p 68, 1960 Aug. p 45, 1964 June p 35, 75, 76, 79, 1965 Aug. p 30, Dec p 55, 1966 Sept p 188, 199, Dec p 67, 1978 May p 72 Lockie, J D, 1970 Apr p 77 Lockwood, John S, 1949 Aug p 19 Lockwood, William W, 1963 Sept p 58 Lockyer, Joseph, Sir, 1952 July p 40 Lockyer, Norman, 1950 Jan p 46, 1953 June p 25, 1966 Aug p 95 Lodbrok, Ragnar, 1967 May p 72, 74 Lodge, Henry Cabot Jr, 1955 Jan p 43, Oct p 27 Lodge, Oliver, Sir, 1949 Sept p 35, 36, 38, 1953 Nov p 98, 1966 Aug. p 92, 93 Lodish, Harvey F, 1975 May p 28 Loeb, A L, 1974 July p 97 Loeb, Jacques, 1949 Sept p 15, 16, 1950 Sept p 63, Dec p 47, 48, 1951 June p 64, 1959 July p 128, 1962 Sept p 187, 188, 1971 Aug p 74-76 Loeb, Lawrence A, 1974 Jan p 62 Loeb, Leo, 1972 June p 30 Loeb, Richard, 1959 Jan p 126 Loeb, Robert F, 1950 Dec p 26, 1951 June p 31, 1956 May p 55 Loessler, Josef E., 1968 July p 78 Loeser, Guenter, 1961 Aug. p 120 Loevenhart, Arthur S, 1960 Mar p 149 Loewe, F, 1952 Oct p 27 Loewenstein, Matthew S, 1973 May p 44 Loewenstein, Werner R., 1959 Nov p 91, 1960 Aug. p 99, Oct p 121, 1961 May p 144, 1970 May p 79, 1973 Feb p 34, 1974 Jan p 64, 1978 May p 146, 150, June p 112 Loewi, Otto, 1948 Sept p 46-48, 1949 Sept p 14, 15, Dec p 16, 1950 Sept p 73, 1958 Jan p 46, 1960 Oct p 121, 1961 Sept p 219, 1965 Jan p 56, 1967 Nov p 27, 1974 June p 59, 1977 Feb p 107 Loewy, Anel G. 1961 Sept p 200, 1962 Mar p 66 Loi, George O G, 1957 Mar p 42 Losberg, Jan, 1978 June p 110 Lofgren, Edward J 792 34 p , 1950 Oct p 15, 1953 Jan p 38, 1955 Dec p 47, 1960 July p 79 Lossfield R. B 1949 Feb p 36 Lostus Beth 1974 Dec p 27 Loftus Engineering Corporation 1963 Dec p 76 Logan James 1951 Aug p 39 Loh Horace H 1977 Mar p 46 56 Lohman Rolf 1965 June p 57 Lohmann D H, 1964 May p 69 Lohmann Hans 1976 July p 95 Lohmann K 1953 Apr p 86 1961 Sept p 66 Lohmar Phoche, 1964 May p 62 Loisel C J 1964 Mar p 70 Lok Mei Pak, 1977 July p 104 Loma Linda University Institute of Nervous Discuses 1964 Jan p 46 Lombardy William 1973 June p 93, 101 Lombroso Cesare 1967 Jan p 25 Lemdaard B V 1949 Nov p 22 Lon onosos Mikhail V 1959 Dec. p 80 1961 May p. 59 London Climitic Survey 1967 Aug p 21 23 Lenden Fritz, 1949 June p 36 37, 1950 Apr p 13 1957 Sov p 92 1560 July p 49 50 52 1561 July p 132 1562 June p 60 1965 Jeb p 22 27 Out p 59, 60 67 1966 May p 31 1567 Mir p 116 Jurap ce 1371 Mar p 79 Nov p 24

London Gliding Club, 1961 Mar p 129 London, Heinz, 1961 July p 132, 1962 June p 60, 1967 Mar p 116, 1969 Dec p 28 London Hospital, 1949 Dec p 28, 1964 Jan London Institute of Ophtalmology, 1964 Dec p 50 London, Jack, 1958 Mar p 105 London Mathematical Society, 1977 Oct p 108 London Medical and Chirurgical Society, 1971 Jan p 101, 102 London Metropolitan Police, 1970 Jan p 45 London School of Hygiene and Tropical Medicine, 1962 May p 88 London Zoological Society, 1965 Nov p 108, 1977 Oct p 81 Lones, D Peter, 1961 June p 146 Long, Crawford W, 1957 Jan p 72 Long, Cyril N H, 1949 July p 44, 1950 Oct p 22 Long, David M., 1967 Mar p 35 Long, Esmond R, 1952 Apr p 55, 56, 1956 Nov p 135, 1961 Nov p 90 Long Island Biological Association, 1964 Nov p 76, 1965 Apr p 36 Long Island Jewish Hospital, 1964 Oct p 78 Long, John D, 1963 Mar p 124 Long, Joseph A 1950 Oct p 19 Long, Perrin H, 1949 Aug p 34 Long, Robert R., 1961 Mar p 131, 132 Long, Roy A, 1969 Mar p 82 Long, Russell B, 1971 Apr p 23 Long, William E 1968 Apr p 55 Longfellow, H W, 1976 Nov p 111 Longhurst, William M., 1960 Nov p 133 Longinotti, L D 1971 Nov p 28 Longley, George H, 1956 Mar p 34 Longley William 1975 Nov p 39 Longsworth Lewis G, 1951 Jan p 43, Dec p 47 49, 51, 1953 Aug p 41, 1960 Mar p Longwell, Arlene, 1961 Sept p 100 Lonnquest, Theodore C, 1953 Oct p 41 Lonquet-Higgins, H C 1964 Jan p 89 Lonsdale Kathleen Dame, 1955 Nov p 43, 1965 Oct p 32, 1966 Nov p 84, 1968 June p 46, 1975 Nov p 102 Loomis, Alfred L, 1954 May p 62, 1959 Apr p 151 Loomis Chauncey Jr 1969 Mar p 52 Loomis Harold G 1975 Apr p 108 Loomis Robert S 1971 Sept. p 92 94, 1976 Sept p 35 99 Loomis W F 1957 Dec p 118, 1970 Dec p 77, 1974 Sept. p 86 Loomis William F 1978 Mar p 117 Loon Maurits N van 1966 May p 53 1970 Mar p 52 Looney W B 1955 Aug. p 34 Loor Francis 1976 May p 38 Loore Camiel de 1975 Mar p 30 31, 33 1977 Oct p 46 Loosanoff Victor L. 1970 Dec p 18 Loper Herbert B 1959 May p 68 Lopez, Robert S 1971 Aug. p 24 Lopez, Ruy 1973 June p 97 Loput 1969 Fcb p 76 78 Lorand Laszlo 1962 Mar p 62, 63 66 Lorch 1 Joan 1962 Feb p 115-117 Lorch Joan 1952 Apr p 59, 1970 May p 57 Lord H W 1950 Oct p 31 Lord Walter 1963 Mar p 115 Lore Richard 1977 May p 106 105 Lorente de No. R. 1952 Nov. p. 60 Lorentz Hendrik V. 1950 Apr. p. 14-15. Sept. p 25 1953 Oct p 95 1954 May p 56 1955

July p 72, 1956 Nov p 94, 1957 Mar p 51, 1958 Apr p 56, 1963 May p 85, 88, July p 110, 1964 Nov p 110, 111, 1967 Nov p 26, 1971 Nov p 25, 1973 Dec p 72 Lorenz, Konrad Z, 1954 Aug. p 70, Nov p 42, 1958 Mar p 81, 82, 1959 June p 73, 1960 Dec p 118, 1961 Dec p 112, 1962 Mar p 50, 1972 Aug. p 24, 25, Sept p 85, 1973 Aug p 73, Dec p >0, 1976 Apr p 65, 1977 May p 110 Lorenz, W F, 1957 Jan p 80 Lorenzen, Coby Jr., 1967 Aug p 39 Lona, Gino, 1949 Jan p 45 Lorrain, Dessamae, 1971 June p 59 Los Alamos Scientific Laboratory, 1948 Sept p 28, 1949 May p 29, 1950 June p 28, 1953 Aug p 40, Nov p 39, 1955 Nov p 54, 1956 Nov p 60, 1957 May p 62, Dec p 73, 84, 1958 June p 35, Nov p 52, Dec p 111, 1959 May p 80, June p 86, July p 68, 1960 Nov p 138, 150, 1962 Oct p 86, Nov p 119, 1963 Feb p 116, Mar p 116, 1964 Mar p 79, 80 86, July p 101, 106, Sept p 203, 206, 214, 1965 Apr p 72, June p 100, 106, 108, July p 64 - 66, 68, 69, 72, Aug. p 49, 53, 1966 Feb p 40, 43, Dec p 22, 43, 51, 1970 May p 92, 95, 1971 Feb p 53, 54, June p 29, 1974 Feb p 44, 1975 Oct p 106, 1976 Oct p 66, 1977 Feb p 96, Mar p 40 Los Angeles County Air Pollution Control District, 1955 May p 63, 1961 Oct p 51 Los Angeles Department of Water and Power, 1974 Aug p 18 Los, J M, 1968 Oct p 49 Losada, Manuel, 1960 Nov p 105 Losch, August, 1975 May p 66 Losee, Fred L, 1956 Aug. p 54 Losey, George, 1971 May p 100 Lotan, Reuben, 1977 June p 119 Lothar, 1967 May p 69 Lotka Alfred J, 1960 Nov p 127 Lotze R. H., 1972 July p 43 Loudon, Rodney, 1968 Sept p 124 Louis Berger and Associates, 1966 Sept p 180 Louis IV, Grand Duke of Hesse, 1965 Aug p 91, 90, 94 Louis, Joe, 1952 May p 44 Louis Prince of Battenburg, 1965 Aug p 89 Louis, Saint, King of France, 1970 Aug. p 97 Louis the Pious 1967 May p 69, 1970 Aug. Louis XIV King, 1955 Oct p 100, 1968 Dec p 105, 1969 Sept p 61, 1972 Jan p 94, 1977 May p 82 86 Louis XV King, 1948 Aug. p 39, 40, 1976 Jan p 116 Louis XVI King, 1976 Jan p 116 Louisell, William H., 1968 Jan p. 79, 81, 82 Louisiana State University, 1964 July p 94, 1974 Dec p 43 Lounasmaa, Olli V., 1974 Dec. p. 66, 1976 Dec. p 68 Lounsbury, Floyd G., 1978 May p. 96 Lourie J M 1948 Nov p 25 Loutit John F 1955 Oct p 28, 1959 Sept p 168 78 Lovaas O Ivar, 1964 Feb p 39, 1967 Mar p 80 Loyberg, Ralph H, 1969 Dec p 93 Love, A. E. H., 1959 Mar p. 135, 1965 Nov. p 30 32 Love John 1., 1974 Jan p 29 Love R Merton 1955 June p 20, 1970 Feb p 59 Love, W E. 1964 Dec p 53 Loverove, W. J., 1976 Da. p. 45 Lorelace Lady 1960 Sept p 68

Limbaugh, Conrad, 1961 Aug p 42 Limber, D N, 1963 Jan p 71 Limeil Laboratory, 1971 June p 27 Limnological Society of America, 1948 May p 33 Lin, C C, 1972 Aug p 54, 56 Lin, L H, 1968 Feb p 47 Lin, Stephen C H, 1967 July p 44 Lincoln, Abraham, 1954 July p 77, 1963 Mar p 121, 1968 Sept p 191, 1973 Nov p 75, 77 Lincoln Hospital, 1977 June p 101 Lincoln Laboratory, see Massachusetts Institute of Technology Lincoln Laboratory Lincoln Park Zoo, see Chicago Lincoln Park Zoo Lind, Charles D, 1977 Apr p 28 Lind, John, 1963 Oct p 28, 31, 1974 Mar p 84 Lind, S C, 1959 Sept p 82 Lindahl, Per E, 1958 Nov p 90 Lindauer, Martin, 1955 Aug p 57, 1957 Mar p 70, 1962 Aug p 80, 87, 1967 Apr p 100, 102, 1974 Dec p 103, 1976 July p 114 Lindbeck, John M H, 1961 Feb p 68 Lindberg, Bengt, 1975 Apr p 89 Lindbergh, Charles, 1957 Jan p 56 Lindbergh, Jon, 1966 Mar p 30-32 Lindblad, Bertil, 1950 Feb p 35, 1954 July p 32, 1967 Oct p 110 Linde Air Products Company, 1949 June p 31 Linde, Carl von, 1949 Dec p 35, 1968 Apr p 24, 1969 Aug p 108, 110 Linde Company, 1959 Jan p 87 Linde, D von der, 1973 June p 60 Linde, Ronald K, 1969 May p 83 Lindegren, Carl, 1950 Nov p 34, 1951 Oct p 24 Lindegren, Gertrude, 1950 Nov p 34 Lindell, Shirley S, 1968 Feb p 91 Lindeman, Edouard C, 1958 June p 29 Lindeman, Raymond, 1951 Oct p 71, 1956 Apr p 105 Lindeman, Raymond L, 1970 Sept p 67 Lindemann, Erich, 1954 Mar p 42, 1957 Jan p 80, 1960 Mar p 149, 1962 May p 47 Lindemann, Frederick A, 1949 Jan p 37, 1967 Sept p 184, 1975 Sept p 161 Linden, George, 1962 July p 41 Lindenbaum, A, 1955 Aug p 39 Lindenbaum, John, 1971 Aug p 18 Lindenbaum, Seymour J, 1963 Jan p 41, 1967 Sept p 103 Lindenmann, Jean, 1961 May p 51, 1963 Sept p 84, 1971 July p 26, 1977 Apr p 42 Linder, David, 1977 Feb p 82 Linder, Forrest E, 1966 June p 21 Linderstrom-Lang, Kai U, 1953 Sept p 112, 1954 Feb p 76-78, 1965 Aug p 73 Lindesmith, Alfred R, 1965 Feb p 83 Lindgren, D L, 1952 Oct p 23 Lindgren, Keith M, 1968 Dec p 56 Lindhard, Jens, 1956 Mar p 94, 1968 Mar p 93, 1973 Apr p 67 Lindley, Hugh, 1969 Aug p 95 Lindley, John, 1966 Jan p 70 Lindop, Patricia J, 1961 Aug p 118 Lindquist, A W, 1960 Oct p 55 Lindquist, Bertil, 1971 Nov p 96 Lindsay, Dale R, 1965 July p 95 Lindsay, E M, 1952 July p 57 Lindsay, Franklin, 1974 Oct p 55 Lindsay, John F, 1976 Mar p 61 Lindsay, John S, 1963 Aug p 29 Lindsley, Donald B, 1959 Aug p 91, 1969 Jan p 85 Lindsley, Harold B, 1970 Mar p 66 Lindsley, Ogden R, 1977 Oct p 134 135 Lindstrom, B, 1961 Dec. p 64

Lindstrom, E.S., 1953 Mar p. 41 Linehan, Daniel, 1949 Feb p 43, 1955 Sept p 54 Linfield College, 1964 Jan p 111 Linfield Research Institute, 1962 Mar p 82 Linford, M B, 1958 July p 72 Ling, Gilbert, 1958 Dec p 85 Ling, Nicholas, 1977 Dec p 82 Lingenfelter, R E, 1965 May p 34, 35 Lingrel, Jerry B, 1976 Aug p 63, 66, 68 Link, Edwin A, 1966 Mar p 24, 27-30 Link, Frantisek, 1965 May p 30 Link, Heinrich, 1966 Jan p 76 Link, Karl P., 1951 Mar p 19, 21 Link, Vernon B, 1950 Dec p 31 Link, William T, 1978 June p 66 Linke, F. 1949 Feb p 42 Linker-Israeli, Mariana, 1977 June p 119 Linko, Eino, 1969 Feb p 71 Linnaeus, 1952 Mar p 28, 29, 1955 Oct p 100. 1956 Apr p 134, 138, Dec p 46, 1959 Feb p 75, 1961 Jan p 150, 1962 Oct p 127, 1963 Feb p 123, 1966 Jan p 70, Feb p 82, Nov p 46, 1968 Oct p 113, 118, 1977 Apr p 52, May p 96, 99, 102, 104 Linschitz, Henry, 1966 Oct p 43 Linscott, William D, 1973 Nov p 56 Linsker, Ralph, 1970 Feb p 73 Linsley, John, 1959 Nov p 140, 1961 July p 74 Linss, F, 1953 Apr p 33 Linton, Adelin, 1951 Oct p 65 Linton, Ralph, 1951 Oct p 65 Linvill, John G, 1974 Jan p 51 Linzell, J L, 1969 July p 66 Lion, Kurt S, 1954 Mar p 46 Lions Club International, 1950 Jan p 28 Liotto, Domingo, 1965 Nov p 40 Lipatov, V B, 1976 Oct p 111 Lipetz, Ben-Ami, 1966 Sept p 224, 71 Lipit Ishtar, King of Isin, 1948 June p 45-47. 1953 Jan p 27, 1957 Oct p 81 Lipkin, David, 1960 Nov p 112, 1972 Aug p 98 Lipkin, Martin, 1963 Aug p 110 Lipman, Jacob G, 1959 Jan p 122 Lipmann, Fritz A, 1949 June p 23, 1950 June p 40, 1953 Apr p 86, 88, Dec p 48, 1954 Jan p 34, 1958 Mar p 124, 1962 Sept p 108, 1963 Mar p 90, 91, 93, 1964 May p 55, 1966 Nov p 65, 1967 Nov p 25, 27, 28, 1978 Mar p 117 Lippard, Vernon, 1953 Apr p 45 Lippershey, Hans 1956 Sept p 232 Lippincott, Ellis R, 1969 Sept p 90, 1970 Nov p 69, 70 Lippmann Gabriel 1967 Nov p 26, 1968 Sept p 91, 1976 Oct p 92, 93 Lippmann Walter, 1949 Nov p 11, 1950 Mar p 24, 1954 Feb p 44 Lippold, Olof, 1971 Mar p 65 Lips, M H, 1963 Aug p 76, 80 Lipschutz, Michael E, 1965 Oct p 30 32, 33 Lipscomb, Harry S 1970 Oct p 60 Lipscomb, William N Jr, 1966 July p 104 106 107, Sept p 161-163, 1968 Apr p 44, 1973 Oct p 53, 59, 1976 Dec p 50 Lipsett, Deborah, 1974 Feb p 89 Lipsett, Morley, 1967 Sept p 181 Lipsky, S R, 1958 Apr p 52 Lipson, H, 1964 Nov p 68 Lis, Halina, 1977 June p 111, 113 Lisk, Robert D, 1964 June p 64, 1976 July Lissajous, Jules A., 1974 Jan p 87, Mar p 97 Lissamen, Peter, 1977 Oct p 74 Lissmann, Hans W., 1960 Oct p 121, 124 1970 June p 85

List, Robert J. 1967 Mar p 28, 1970 Sept p 58 Lister Institute of Preventive Medicine, 1964 Jan p 81, 82, 84, 86, 1976 Oct p 28, 1977 June p 111, Oct p 96 Lister, Joseph J., 1948 May p 25, 1950 Nov p 45, 1951 Feb p 48, 1963 Mar p 122, 1971 Jan p 102, 1973 Sept p 129, 1976 Aug. p 72 Lister, Robert, 1964 Nov p 31 Litke, Alan M, 1973 Nov p 40, 1975 June p 54 Litman, Rose, 1957 Feb p 67, 1962 Jan p 81 Litster, J D, 1965 Jan p 105, 107 Littauer, Raphael 1972 May p 23, 24 Littauer, Uriel Z, 1968 Oct p 67, 1976 Aug p 69 Litten, Walter, 1975 Mar p 91, 100 Litteton, Jesse T, 1969 Nov p 114 Little, Arthur D, 1965 June p 61, 1966 Feb p 50 Little Clarence C, 1972 June p 28 Little, Gordon, 1959 Mar p 39 Little, W J. 1969 Oct p 77 Little, William A, 1964 Aug p 39, 1965 Oct p 57, 1967 Sept p 204, 1971 Nov p 24 Littlefield, Jean W, 1969 Apr p 27 Littlefield, John W, 1974 July p 36 Littlewood, J E, 1948 June p 57, 1950 Sept p 42 Littman, Michael G, 1976 Feb p 55 Litton Industries, 1970 Mar p 81, 82, 1977 Oct Littrow, Joseph J von, 1951 Mar p 48 Litumanya, John, 1971 Dec p 93 Litvak, Marvin M., 1968 Dec p 43, 1973 Mar p 56 Li-tze, Shao, 1955 Apr p 52 Livanov, M N, 1970 Mar p 68 Liverman James, 1958 Apr p 109 Livers Ronald W, 1969 May p 24 Livingston, M Stanley, 1948 June p 27, 1952 July p 35, Nov p 42, 1953 May p 43, 1962 May p 82 Livingston Park, 1953 Sept p 73 Livingston, R T, 1951 Feb p 26 Livingston, Robert B, 1966 Nov p 65 Livingston W K, 1961 Feb p 45, 46, 49 Livingston, William C, 1966 Nov p 54 1968 Jan p 112, 1975 Apr p 110 Livingstone David 1949 Dec p 35 Livy (Titus Livius), 1954 Nov p 99, 1963 Dec p 109, 1973 Oct p 39 40, 1977 June p 64 Ljubimova M N 1952 Dec p 19, 1953 Apr p 90 1961 Sept p 200 Llano George A, 1962 Sept p 187 202 Lliboutry, Louis 1970 Aug p 46 Llinas Rodolfo R 1975 Jan p 60 Lloyd David P C 1966 May p 103 104 Lloyd Francis E 1978 Feb p 108 Lloyd, Humphrey 1953 Nov p 93 1954 May p 83 Lloyd James E 1976 May p 74 79 82 83 Lloyd's of London 1974 Dec p 64 Lloyd R M 1972 Dec p 32 Lloyd, Trevor 1949 Dec p 55 Lobachevski Nikolai I 1952 Nov p 79 1953 Feb p 79, 80 81 1956 Mar p 106 108 Sept p 136 137, 1958 Mar p 100 1967 Dec p 115, 116 1969 Nov p 87 89 1971 Mar p 51 52 60 1976 Mar p 69 Aug p 98 Lobban Peter 1975 July p 26 Lochbaum, Carol 1966 Jan p 51 Lockard, Raymond E 1976 Aug p 63 Locke John 1955 Dec p 80 1956 Aug p 46, 1960 Oct p 164, 1964 May p 116 1967 Oct p 118, 1968 May p 100

~ ~

Lytle, Loy, 1974 Feb p 91 Lyttleton, R. A., 1951 July p 26, 1952 Nov p 49, 1953 Mar p 34, 1959 Apr p 93, Oct p 84, 1960 July p 62, 1966 Oct p 30, 1975 Sept p 153

M

M A Hanna Corporation, 1952 Jan p 50 M D Anderson Hospital, 1960 Nov p 63, 71 M D Anderson Hospital and Tumor Institute, 1964 May p 91 M W Kellogg Company, 1970 Sept p 143 Maak, R., 1969 Aug p 80 Maaloe, Ole, 1953 May p 38, 39 Maanen, Adriaan van, 1964 Aug p 14 Maas, Klaus, 1967 Dec p 69 Maaske, C A, 1966 June p 100 MacAdam, David L , 1974 July p 62 Macapagal, Dios D., 1963 Feb p 45 MacArthur, Ian, 1969 Aug p 93 MacArthur, Robert H, 1973 Dec p 60, 61 Macaulay, Thomas, 1955 Oct p 101 MacCallum, F O, 1961 May p 51, 1963 Oct p 46, 1971 July p 26 MacCallum, W G, 1961 Apr p 56 Maccoby, Eleanor E, 1955 July p 52 Maccoby, Eleanor S, 1974 Sept p 145 MacCready, Paul B, 1977 Oct p 74 MacCullagh, Hamilton, 1953 Nov p 93 MacCullagh, James, 1953 Nov p 93 Macdonald, Alexander, 1974 Nov p 54 MacDonald, Gordon J F, 1960 May p 62 64 1967 Mar p o2, 64, 1970 Mar p 38, 1972 Apr p 50 Macdonald, Norman J. 1968 Jan p 111 MacDonald R., 1978 Apr p 122 MacDonald, T. L. 1949 July p. 21 Macdonell, W R, 1950 Apr p 60 MacDougal, D. T., 1952 Oct. p. 82 MacDougal, J. H., 1948 Aug. p. 8 MacDougald, T. J., 1951 June p. 51 Macdougall, J D, 1976 Dec p 114 MacDougall, William, 1950 Sept p 81 89 MacDowell, Edward, 1965 Dec p 99 Macek, Warren M 1963 July p 44 45 Macelwane, James B 1953 May p 54 MacEnery, Father, 1959 Nov p 167 170 172 MacEnery, J 1948 July p 16 17 MacEwan Andrew A 1966 June p 51 Macfadden Bernarr 1949 Jan p 52 MacFarlane D A 1963 Oct p 116 MacFarlane, Jean W 1952 Sept p 76 MacFarlane, Malcom 1969 July p 32 MacGillavry, Caroline H 1974 July p 97 MacGinitie, George 1971 May p 100 MacGregor Frances C 1973 May p 27 MacGregor, G H C 1964 Jan p 36 Mach, Ernst 1949 Oct p 53 Not p 15 19 1950 Apr p 13 1955 July p 72 73 1957 Feb p 100 104 106 1964 June p 32 Sept p 133 Nov p 117 1967 VI n p 129 134 1969 Mar p 68 1971 Dec p 68 1972 June p 91 92 1974 Jan p 78 1976 Feb p 46 1978 May p 68 Mach Ludwig 1962 May p 108 109 1977 Aug 0.95 Machia 1949 Feb p 53 MicHattic Lorne 1970 Jim p 50 Machanelli Siccolo 1952 lug p 60 Machin Kenneth I 1903 Mar p 52

Michover K 19811 ch p \$1

Mache Stanles 1955 Soc p of

Machin Lesier 1970 Oct p 54

Maclines Dane 4 1 1981 Dec p 47

MacInnis, Joseph B, 1966 Mar p 24 58 MacInnis, Marian, 1954 Apr p 64 Macintosh, Charles, 1956 Nov p 76 MacIntyre, Ferren, 1970 Nov p 104 MacIntyre, Iain, 1970 Oct p 42 MacIntyre, Ross J, 1973 Dec p 36 Mactolek, John, 1953 May p 83 Mack, Arien, 1967 May p 103 Mack, D J, 1967 Feb p 86,88 Mack, Dick A, 1972 Nov p 105 Mack, Michael E, 1973 June p 51, 52 Mack, Pauline D, 1951 Feb p 31 MacKay, D M, 1974 July p 104 MacKay, J S, 1969 June p 58 Mackay, M B, 1966 June p 39 Mackenzie, C J, 1975 Oct p 22 MacKenzie, Cosmo G. 1971 June p 97 MacKenzie, Innes K, 1975 July p 39 MacKenzie, James, 1956 May p 122, 1965 June p 115 MacKenzie, Julie B. 1971 June p 97 MacKenzie, K R, 1950 Apr p 43 Mackey, M B, 1963 Dec p 56 Mackie, Alexander M. 1972 July p 99 Mackie, I M., 1968 June p. 105 Mackie, W. 1968 June p. 107 Mackintosh, A. R. 1965 Apr. p. 78, 1967 Sept. p 202 Mackintosh, N. A., 1973 Aug p. 42 Mackin Charles C, 1962 Dec p 129 Mackworth, Harold, 1957 Jan p 52 Mackworth, Jane F, 1968 Aug p 90 Mackworth, Norman H , 1968 Aug p 90-94 1971 June p 37 Maclachlan, G A, 1960 Nov p 114 MacLachlan James 1975 Mar p 102, June p 101 MacLagen T J 1963 Nov p 96, 98 MacLane Saunders, 1949 June p 29, 1953 Feb Maclean Elizabeth C 1962 July p 109-111 Maclean John, 1934 Oct p 73 MacLean William R., 1960 Apr p 92 MacLeish Kenneth, 1952 Feb p 31 MacLennan R, 1968 Apr p 77 MacLeod Colin M. 1953 Feb p 50 51, 1956 July p 113, Oct p 88, Nov p 52, 1961 Sept p 74 Oct p 86, 1963 July p 64, 1969 Jan p 38 1972 Dec p 84 MacLeod Donald I A, 1970 Apr p 48 Mackod J M 1977 Aug p 32, 33 Macleod John J R, 1949 Dec p 13, 1958 May p 99 1967 Nov p 26 MacLeod Michael C. 1970 Oct p 60 MacLeod, Norman H 1970 Sept p 54 Maclusky Neil 1, 1976 July p 57 MacMahon Brian 1963 July p 68 Macnullan, A M 1965 May p 21 MacMillan and Co. Ltd., 1950 Jan. p. 46-47 MucMillan, Donald B. 1956 Feb p 89, 1976 Jan p 102, 109 MacMillan, Harold 1960 June p 80, 1963 Feb p 64 MacMillan, James M. 1961 Aug p 105 Macmillan Kirkpatrick, 1973 Nar p 82 Macnab, Robert M 1975 Aug p 39, 1976 Apr p 45, 46 MicNeish Richard S 1971 Apr p 36, 1976 3.6 g 19x MacNichol, Edward F. Jr., 1961 Sept. p. 228. 1964 May p (0 1969 May p 113 1970 Oct p 53, 1975 Mar p 65, 74 Macpherson Jan A. 1963 Jan p. 51, 1967 Apr MacPhillamy, H. B., 1958 Oct. p. 50 MicRae A V 1905 Mar p 37 MicRue F P 1969 Aug p 91 94

MacSwiney, Terence, 1971 Oct p 14 MacTaggart, Kenneth W, 1951 May p 66 Macumber, P. G., 1972 Oct p. 48 Macy, Obed, 1958 Jan p 84 Madagascar Institute of Scientific Research 1955 Dec p 34 Madden J S, 1967 Aug p 44 Maddin, Robert, 1977 May p 61, June p 37, Oct p 122 Maddock, Alfred, 1968 Oct p 52 Madey, John M J, 1977 June p 64 Madigan, Francis C, Father, 1958 Feb p 22 Madigan, John R., 1964 June p 71, 79 Madison, James, 1957 Nov p 47, 1966 Oct Madison, James T, 1965 May p 48, 1966 Feb p 34 Madras, Bertha, 1974 Feb p 89 Madsen, B M. 1960 Sept p 104, 1961 Aug p 56, 1965 Oct p 32 Maegratth, B. G., 1953 Apr. p. 50 Maeno, Hiroo, 1977 Aug p 117 Maestlin, Michael, 1973 Dec p 97, 99 Maeterlinck, Maurice, 1948 June p 18, 19 Maffei, Lamberto, 1974 Nov p 106, 111, 1976 Dec p 45 Maffei, Paolo, 1971 Mar p 45 Magana, Rodolfo, 1968 Aug p 74 Magasanik Boris 1977 Mar p 79 Mage, Samuel, 1963 Jan p 66 Magee, Donal F, 1966 June p 97 Magee, John F, 1971 Nov p 48 Magellan, Ferdinand, 1953 Jan p 50, May p 88, June p 57, 1958 Jan p 51; 1964 Jan p 32 Magendie, François, 1957 Mar p 112, 1971 Jan p 96 Magendie, Françoise, 1958 Aug p 85 Maglic, B C, 1961 Nov p 80, 1963 Jan p 45 Magnan Antoine, 1958 Dec p 92 Magnan, Christian, 1967 Aug. p 36 Magnel, G , 1958 July p 26 Magnus Albertus, 1952 Oct p 76, 1977 June p 126 Magnus, Ian, 1967 Nov p 69 Magnus, W, 1952 June p 66 Magnus Levy, Adolf, 1971 June p 95 Magnuson, Paul B, 1952 Mar p 38, 1953 Feb p 42 Magnuson, Warren G. 1948 June p 9, 1950 Jan p 26 Magnusson, R. P. 1978 Mar p 113 Magono, Choji, 1954 Feb p 66, 67 Magoun Horace W, 1956 Oct p 106 1957 May p 25, 1959 Aug p 95, 1961 Jan p 137. 1962 June p 148, 1967 Fcb p 66 1970 Mar p 66 Magrath C Peter, 1978 June p 83 Mahalfy, A. F., 1955 Mar p. 60, 62, 69 Mahan Alfred T, 1969 Sept p 59 60 63 Mahboubi, E., 1974 May p 61 Mahew, Clarence W 1963 Aug. p 27 Mahl, George F 1958 Oct p 96 Mahler, Henry, 1954 Jan p 35 Mahones J F 1952 spr p 56 Mahonev, M. J. 1977 June p. 77 Mahr, Herbert, 1973 June p 53 55 Mahudel, Abbe 1974 Dec p 127 Mahut Helen 1956 Jan p 39, 1977 June p 89 Maiani Luciano 1975 June p 60, Oct p 47, 1977 Oct p 60 Maico Company, 1953 Feb p 40 Maier, Hans 1969 Feb p 95 Maier, Michael 1952 Oct p 74 Maier Norman 1952 Aug p 28 Maier Robert 1977 Mar p 80 Maier Steven, 1972 June p. 113

Lovelace, Richard L., 1969 Jan. p. 46. Loveland, R. P., 1952 Nov. p. 32. Loveless, Richard, 1966 Aug. p. 42. Lovell, Alfred C. B., 1953 Mar. p. 50; 1955 Mar. p. 41; 1957 Oct. p. 58. Lovell, Bernard, Sir, 1961 Dec. p. 76; 1963 Sept. Lovell, John, 1951 June p. 54. Lovelock, Jack, 1976 June p. 114. Lovelock, James E., 1956 June p. 108; 1969 Mar. p. 88. Lovering, John F., 1976 Dec. p. 118. Lovering, T. S., 1957 July p. 42. Lovett, Robert A., 1951 Nov. p. 32. Low, Frank J., 1965 Aug. p. 24, 29; Oct. p. 42; 1966 Jan. p. 48; Dec. p. 46; 1967 Oct. p. 60; 1968 Aug. p. 59, 60, 65; 1969 Jan. p. 32; 1972 Aug. p. 59; 1973 Mar. p. 52; Apr. p. 37, 38; 1974 Apr. p. 71, 72; 1975 Sept. p. 154; 1978 Apr. p. 116. .ow, J. R., 1960 Feb. p. 95, 104. .ow, Joseph, 1952 Sept. p. 45. .ow, Samson, 1976 Jan. p. 117. owdermilk, Walter C., 1960 Mar. p. 55; 1965. Mar. p. 25, 28. .owe, George, 1961 Oct. p. 68. .owe, Ronald, 1952 Feb. p. 62. owe, Thaddeus S. C., 1949 Dec. p. 35. owell Institute of Boston, 1949 July p. 50. owell, James R., 1948 May p. 46; 1958 June. p. 74. owell Observatory, 1953 May p. 73; 1962 Apr. p. 62; 1964 Nov. p. 43; 1975 Sept. p. 131. owell Observatory, see: U.S. Lowell Observatory. owell, Percival, 1953 Feb. p. 20, 21; May p. 65, 70, 71, 72; 1959 Apr. p. 86, 88, 90, 93; 1971 Apr. p. 52; 1975 Sept. p. 131. öwenheim, Leopold, 1972 July p. 41. owenstam, Heinz, 1958 Feb. p. 56. owenstein, Bertrand E., 1976 Feb. p. 56. owenstein, Otto E., 1962 July p. 64. ower, Richard, 1954 Feb. p. 54. owey, Susan, 1974 Feb. p. 59; 1975 Nov. p. 38. owie, Robert H., 1956 May p. 70. öwig, Karl J., 1963 Nov. p. 96-98. owman, Guy S. Jr., 1950 Jan. p. 48. owman, Paul D. Jr., 1975 Sept. p. 143. own, Bernard, 1968 Oct. p. 36; 1971 Feb. owrey, Grosvenor, 1959 Nov. p. 100, 102, 105. owry, Ira, 1965 Sept. p. 169. owry, Olovir H., 1961 Dec. p. 65. owy, David G., 1968 Feb. p. 96. owy, Jack, 1965 Dec. p. 24, 27; 1975 Aug. p. 40, 41; Nov. p. 38. oyola, Ignatius, 1948 May p. 26. oyola University, 1958 July p. 52. ozier, Richard, 1976 June p. 43. ıbbock, John, Sir, 1954 Sept. p. 52; 1965 July p. 92. ibchenko, Lula, 1955 Dec. p. 43, 44. ıber, Johann, 1976 Nov. p. 100. ıbin, Moshe J., 1969 Oct. p. 29; 1971 June p. 21. iborsky, Lester, 1968 Aug. p. 93. ibowitz, H. R., 1956 July p. 52.

ibs, Herbert A. Jr., 1966 Apr. p. 42.

ice, David, 1974 Nov. p. 84, 87, 95.

icas, Jeanette, 1949 Dec. p. 55.

icas, R. A., 1958 Oct. p. 56.

ice, J. V., 1976 Apr. p. 56.

ice, John S., 195 Nov. p. 54.

icey, E. C. A., 1973 Nov. p. 92.

cey, Jerold F., 1975 July p. 74.

p. 85, 86.

icas, Edouard, 1952 Feb. p. 40; 1953 Mar.

Luchins, Abraham S., 1963 Apr. p. 128. Lucht, C. M., 1966 July p. 101. Lucia, Salvatore P., 1964 Aug. p. 56. Lucian, 1972 Dec. p. 89, Luciani, Luigi, 1958 Aug. p. 85; 1961 Oct. p. 141; 1971 Oct. p. 14; 1975 Jan. p. 56. Luciano, David P., 1977 May p. 106. Luck, David J. L., 1965 Jan. p. 78. Lucké, Balduin, 1973 Oct. p. 26-28. Luckhardt, A. B., 1957 Apr. p. 55. Luckmann, Thomas, 1970 Nov. p. 98. Lucknow University, 1977 Apr. p. 34. Lucretius, 1952 Mar. p. 62; 1958 Feb. p. 28; 1959 Oct. p. 113; 1964 Feb. p. 42; 1965 Jan. p. 82; 1966 Sept. p. 164; 1967 Feb. p. 62; 1970 May p. 117-121; 1976 Jan. p. 117. Lucy, Jack A., 1975 Oct. p. 36. Lucy, Leon B., 1968 June p. 39; 1972 Feb. p. 71. Luders, A. E., 1966 Aug. p. 67. Ludwig, Carl F. W., 1949 Sept. p. 44; 1951 Oct. p. 58; 1953 Jan. p. 41, 42; 1961 May p. 137, 144; 1968 June p. 79, 84. Ludwig, George, 1956 Nov. p. 47; 1959 Mar. p. 42. Ludwig, Martha L., 1968 Apr. p. 49. Luff, Peter P., 1978 Mar. p. 58. Luft, John H., 1962 Apr. p. 70. Luginbuhl, Hans, 1966 June p. 100. Lugliani, Robert, 1974 June p. 51. Luhn, H. P., 1958 June p. 48. Luigi, Jacchia, 1962 Apr. p. 59. Lukasiewicz, Jan, 1969 June p. 65. Lukirsky, P. L., 1949 Nov. p. 27. Lull, Ramón, 1952 Mar. p. 68; 1968 May p. 98. Lum, Peter, 1949 Dec. p. 53. Lum, William T., 1966 Jan. p. 48; 1968 Dec. p. 38. Lumb, G. D., 1966 June p. 100. Lumière, Louis, 1950 Aug. p. 39. Lumley, Henry de, 1971 Dec. p. 42; 1975 Jan. Lumsden, Malvern, 1976 Jan. p. 61. Luna, Enrique, 1957 Jan. p. 45. Lunar Society of Birmingham, 1965 June p. 115. Lund, Peter W., 1967 Nov. p. 44. Lund, R. D., 1974 May p. 50. Lundberg, Anders, 1975 Jan. p. 71. Lundberg, Hans, 1950 June p. 52. Lundblad, G., 1950 Dec. p. 49. Lundby, A., 1955 Oct. p. 31. Lundén, A., 1967 Dec. p. 72. Lundin, Robert E., 1968 June p. 46. Lundin, S. J., 1972 Apr. p. 54. Lundmark, K., 1954 July p. 35; 1971 July p. 77. Lundmark, Knut, 1976 June p. 106. Lundquist, Charles A., 1962 May p. 55. Lunts, A. G., 1956 Jan. p. 29-31. Luntz, J. D., 1954 Dec. p. 53. Luo, Huey-Lin, 1964 Sept. p. 88. Luria, A. R., 1965 Mar. p. 91; 1969 Jan. p. 79; 1970 Mar. p. 66; 1972 Apr. p. 80, 83. Luria, Salvador E., 1948 Nov. p. 51; 1951 May p. 24; Oct. p. 23; 1956 July p. 110; 1969 Dec. p. 48; 1970 Jan. p. 88; 1972 Dec. p. 87, 88; 1975 Dec. p. 30, 48; 1978 Feb. p. 76. Lurie, A. A., 1952 Feb. p. 31. Lurie, Max, 1955 June p. 104. Lüscher, E. F., 1961 Feb. p. 64. Lüscher, Martin, 1958 Dec. p. 39; 1961 July p. 138; 1963 May p. 100; 1967 Nov. p. 117. Lusignan, Bruce B., 1969 Mar. p. 87. Lusk, Graham, 1965 May p. 88. Lusk, Joan, 1975 Dec. p. 34, 35. Lüst, Rhea, 1958 Feb. p. 33; 1964 Apr. p. 68; 1974 Feb. p. 50. Lusternick, L., 1950 Jan. p. 24.

Lustig, E. N., 1961 Feb. p. 98.

Lustig, Gerald J., 1975 Mar. p. 49. Luten, Daniel B., 1971 Sept. p. 165. Luther, Herman, 1970 Nov. p. 88. Luther, Martin, 1952 Oct. p. 76; 1956 Jan. p.; 1958 June p. 74; 1964 Feb. p. 121. Lüttge, Ulrich, 1978 Feb. p. 114. Lutwick, Larry L., 1976 Nov. p. 70. Lutz, F., 1950 Jan. p. 40. Lutz, Henry F., 1948 June p. 46, 47. Lutzner, Marvin A., 1967 Jan. p. 115. Luukkainen, Tampani, 1972 Nov. p. 50. Luxton, R. E., 1965 Nov. p. 54. Luyet, B. J., 1956 June p. 106. Luyten, Willem J., 1971 May p. 59, 60. Luyten, William J., 1964 Aug. p. 14. Lvov, D. K., 1977 Dec. p. 103. Lwoff, André, 1950 Nov. p. 36; 1954 June p. 73; 1955 Apr. p. 93; 1961 June p. 97; 1963 Aug. p. 51; 1965 Dec. p. 38; 1967 Nov. p. 28, 30; 1976 Dec. p. 103. Lychnikov, D. C., 1970 Nov. p. 63. Lycosthenes, 1950 June p. 19. Lyden, Fremont J., 1963 Aug. p. 20, 24. Lyden-Bell, Donald, 1970 June p. 32. Lyell, Charles, Sir, 1956 Feb. p. 62, 63, 65-68, 72; 1957 Apr. p. 81; 1959 Feb. p. 70, 75, 77-79, 81, 84; May p. 64; Aug. p. 98-106; Nov. p. 170, 172-174; 1960 May p. 70; 1963 Feb. p. 77; 1972 Dec. p. 27, 36. Lyman, Charles P., 1968 Mar. p. 110; 1969 Jan. Lyman, E. M., 1956 July p. 57, 58. Lyman, John, 1951 Aug. p. 28. Lyman, John L., 1977 Feb. p. 96. Lyman, Joseph, 1964 Mar. p. 34. Lyman, Richard W., 1978 June p. 83. Lyman, Theodore, 1972 Jan. p. 80. Lynch, David K., 1978 Apr. p. 144. Lynch, Gary S., 1977 June p. 90. Lynch, Harry, 1975 July p. 77. Lynch, Paul, 1978 Feb. p. 71. Lynden-Bell, Donald, 1963 Feb. p. 65; 1974 Dec. p. 43. Lynds, Beverly T., 1977 June p. 68. Lynds, C. Roger, 1963 Sept. p. 86; 1964 Nov. p. 40, 44; 1966 July p. 54; Dec. p. 41, 43, 45, 52; 1969 Mar. p. 46; 1970 June p. 35; Dec. p. 22, 27; 1971 Feb. p. 31; 1975 Feb. p. 43. Lynds, Clarence R., 1968 July p. 49; 1978 Apr. Lyne, A. J., 1968 June p. 44; Oct. p. 30. Lynen, Feodor, 1954 Jan. p. 34, 36; 1960 Feb. p. 47, 49; 1961 June p. 146; 1964 Dec. p. 60; 1967 Nov. p. 28; 1975 Mar. p. 95. Lynip, A. W., 1974 Mar. p. 84. Lynn, Walter, 1974 Sept. p. 169. Lyon, Marcus, 1954 Aug. p. 66. Lyon, Mary, 1963 Nov. p. 72; 1971 Nov. p. 34; 1974 May p. 53; 1977 Feb. p. 81. Lyon, William S., 1971 May p. 18. Lyons, E. Ann, 1963 Mar. p. 78. Lyons, Gene M., 1968 Oct. p. 58; 1970 Feb. Lyons, Harold, 1949 Feb. p. 28; 1957 Feb. p. 71; 1958 Dec. p. 46; 1960 Apr. p. 74. Lyot, Bernard, 1948 Nov. p. 34; 1953 May p. 68, 73; 1958 Aug. p. 37; 1959 Oct. p. 67; 1973 Oct. p. 74; 1975 Sept. p. 76. Lyra, Gerhard, 1961 Mar. p. 129. Lysenko, Trofim D., 1949 May p. 26; 1950 Feb. p. 24; 1953 Sept. p. 74; Dec. p. 92; 1954 Sept. p. 82; 1956 June p. 60; 1958 Sept. p. 89; Nov. p. 60; 1959 May p. 65; 1962 Nov. p. 41-46, 48; 1970 Oct. p. 29 Lyst, Bernard, 1960 July p. 58. Lythgoe, R. J., 1967 June p. 76. Lytle, Farrel W., 1976 Apr. p. 96, 101, 102.

Mariner, Ruth, 1963 Aug. p 52 Mannin, M., 1949 Apr p 24 Marinsky, J. A., 1950 Apr p 43 Manon, Leo, 1959 July p 116 Manotte, Edme, 1964 May p 114 Manus, Simon, 1973 June p 30 Mark, Hans M , 1978 May p 70 Mark, Herman F, 1957 Sept p 81, 1962 Nov p 102, 1967 Sept p 266, 79, 89 Mark, J, 1978 Feb p 119 Mark, J Carson, 1978 Feb p 76 Mark, Muster, 1964 June p 55 Mark, Richard F, 1964 Jan p 50 Mark, Robert, 1974 Feb p 93 Mark, Vernon H, 1961 Feb p 45 Marker, Russell E., 1955 Jan p 57, 58 Markert, Clement L, 1969 Apr p 33 Markert, Thomas H, 1977 Oct p 50 Markgraf, Richard, 1967 Dec p 30-32 Markham, Roy, 1955 July p 76, 77 Markiewicz, Robert S, 1976 June p 37 Markley, Joan F, 1966 May p 49 Markley, Kehl, 1958 Dec p 124 Markov, A. A., 1964 Sept. p 95 Marks, Robert, 1952 Mar p 68 Marks, William B, 1964 May p 60, Dec p 54-Markstein, George H, 1954 Sept p 90 Markush, Robert E., 1968 Mar p 54 Marlborough, Duke of, see Churchill, John, Duke of Marlborough. Marler, P., 1955 Sept p 80 Marling, John B, 1977 Feb p 95 Marmelzat, Willard L., 1957 Jan p 68 Marmer, H A, 1954 May p 68 Marmet, Jung, 1961 Oct p 75 Marmont, George, 1949 Sept p 14, 16, 1958 Dec p 88 Marmorston, Jessie, 1958 Feb p 27 Marmur, Julius, 1960 May p 90, 1962 Dec p 137, 140, 1964 May p 51, 56 Marotta, Domenico, 1965 Sept p 82 Marples, B J, 1960 Apr p 122 Marples, Mary J, 1969 Dec p 134 Marquand, Allan, 1952 Mar p 70 Marquette, Jacques, 1952 Mar p 23 Marquette University, 1958 July p 52 Marquez, E. D., 1975 Mar p 80 Marquisee, Mark, 1965 May p 48, 1966 Feb p 33, 38 Marr, David 1976 Feb p 84 Marrack, J. R., 1954 June p. 71 Marrazzi, Amedeo S 1957 Feb p 87, Dec p 56, 1958 June p 48, Aug p 95 Marre, Jacob de, 1960 Oct p 130 Marret, Mario 1964 Feb p 94 Marnotte, Edme, 1950 Nov p 16 Marschak, Jacob, 1955 Feb p 80 Marsden, Brian G. 1974 Feb p 53, 1975 Sept P 144 Marsden, C D, 1972 May p 37 Marsden Ernest, 1956 Nov p 96, 1962 Aug p 37, 1971 June p 61 1972 Oct. p 100 Marsden Halsey M 1968 May p 126 Marsden K. 1968 Mar p 53 Marseilles Observatory 1964 Jan p 35 March B 1975 Nov p 38 Marsh, James, 1959 Aug. p. 95-96 Marsh Othniel C 1969 Oct p 50 Marsh Richard L 1962 July p 54 Marsh S P 1965 June p 106 108 Marsh & Robert L 1945 June p 27 1949 Dec 730 1950 Mar p 11 27, Apr p 20 1953 Sept p 50 1964 Sept p 146 1950 Mar p 42, Aug p 29 31 34 1957 Jan p 54, July p 75 1955 Leb p 40 1 40 Mar p 107, 59 112, July p 7), 1966 Leb p 45

Marshall, A. J, 1963 Aug p 45 Marshall, Alfred, 1953 Feb p 78, 1954 Mar p 41, 1973 Sept. p 123 Marshall, Carter L, 1973 Sept p 32 Marshall, E. K. Jr, 1953 Jan. p 43 Marshall, Erme, 1960 Feb p 44 Marshall, F H A, 1966 Apr p 86 Marshall, F R., 1949 June p 49 Marshall, Frank J, 1962 Dec p 110 Marshall, George C, 1949 May p 11, 1951 Sept p 89, 1967 Nov p 25 Marshall, John, 1948 June p 53, 1960 Feb p 38, 39 Marshall, John M. Jr, 1961 Apr p 126, Sept p 178 Marshall, Laurence K., 1960 Sept p 82 Marshall, Lauriston C, 1970 Sept p 118, 120 Marshall, Norman, 1956 Nov p 111, 1960 July p 120 Marshall, Ray, 1977 Nov p 43, 49 Marshall, Richard E, 1966 Apr p 107, 1967 Apr p 48 Marshall, Robin, 1974 May p 81 Marshall, Roy K., 1951 Jan p 27 Marshall, Ruth, 1963 July p 57 Marshall, W A, 1973 Sept. p 40 Marshall, W H, 1948 Oct. p 31 Marshall, Walter, 1978 May p 81, 84 Marsland, Douglas, 1950 Feb p 26, 1953 Aug. p 55, 1962 Feb p 117 Marston, Peter, 1975 Nov p 46, 47, 51 Marston, William M, 1967 Jan p 25 Martel, Charles, 1975 Oct p 73 Martell, Arthur E., 1953 June p 69 Martell, E. A., 1959 Sept p 77 Martensen-Larsen, O, 1949 May p 29 Martin, A. J. P., 1950 June p. 35, 1951 Mar. p 39, 1952 Dec p 29, 1953 Sept p 82, 1955 May p 37, 1958 Apr p 52, 1960 Mar p 133, 1961 Feb p 81, Oct p 58, 62, 1962 June p 93, 1963 July p 50, 1967 Nov p 28 Martin, Charles, Sir, 1951 Oct p 59, 1954 Feb p 32, 1959 Apr p 105 Martin, Charlie, 1967 Oct p 43, 45 Martin Company, 1959 July p 68 Martin, D D, 1975 Aug p 109 Martin David S 1949 Aug. p 12, Nov p 20, 1950 Feb p 20, 21 22, Aug p 45, 1951 Apr p 65, 1954 Nov p 88, 1964 Mar p 70 Martin, David W Jr., 1973 June p 87 Martin Edgar T, 1961 May p 75 Martin, Frederic T., 1967 Mar p 31 Martin, George M. 1977 Feb p 85 Martin, Herman, 1974 Dec p 104 Martin John, 1977 June p 128 Martin M H 1961 May p 158 Martin Manetta Corporation, 1974 Feb p 44 Martin Nicholas 1957 July p 96 Martin, Paul, 1973 May p 44 Martin Paul S., 1963 Feb p 82, 1966 Dec p 58 Martin, Robert, 1970 July p 59 60 Martin, Robert G. 1963 Mar. p. 91 Martin Samuel P 1949 Oct. p 39 Martin, W. P. 1953 Aug. p. 37 Martin, Willard J. 1956 May. p. 36 Martin William R., 1965 Feb p 86, 1966 Nov p 136 Martinazzi M. 1964 Oct p 86 Martinez, Carlos 1963 June p. 71 Martinez, Hector 1957 Jan. p. 45 Martini Manno 1970 Feb p 35 Martini, Simone 1952 July p 27 1955 Jan Martins Ferreira H 1960 Oct. p 119 Martius, 1945 May p. 12, 13 Martius, Carl 1953 Nov p 82/53

Martland, Harrison, 1955 Aug. p 35 Marton, L, 1953 Aug p 44, 1956 Mar p 88 Martsinkevitch, L. D., 1962 Sept. p. 192 Martyn, D F, 1950 Oct. p 39 Martz, D E., 1965 Oct p 42 Marvel, Carl S , 1957 Sept p 88, 1969 July Marvell, Andrew, 1977 June p 129 Marx, A, 1957 Nov p 86 Marx, Karl, 1952 Sept p 150, 1954 Oct. p 33, 1958 Sept p 107, 108, 1963 Sept p 55, 56, 1965 Sept. p 68, 1966 Oct. p 23, 1972 Apr p 19, Dec p 89, 1973 Feb p 57, 1976 July p 34, 1977 Nov p 151 Marx, Paul C, 1967 Jan p 41 Mary Imogene Bassett Hospital, 1963 Aug. p 25 Mary of Magdalena, 1977 June p 125 Mary, Queen, 1948 June p 51, 1977 Dec p 88 Mary, Queen of Scots, 1949 Dec p 34, 1969 July p 42, 46, 1973 Apr p 87 Maryon, Herbert, 1966 Apr p 78 Masayasu, Nomura, 1976 Oct p 49 Mascolo, R. W, 1954 Sept. p 122 Māshā'allāh, 1974 Jan p 104 Mashburn, Louise T, 1968 Aug. p 37 Masland, Richard F, 1976 Dec. p 47 Masland, Richard L, 1958 Mar. p 60 Mason, B J, 1961 Mar p 132, 1962 Oct p 43 Mason, Brian, 1971 Oct p 49, 1972 June p 38, 1975 Jan p 30 Mason, Edward S, 1963 Sept p 111, 61, 1974 Sept p 173 Mason, George F, 1949 Dec p 54, 55 Mason, Henry R., 1974 Sept p 65 Mason, Howard S, 1968 May p 112, 1975 June p 26 Mason, Iona, 1968 July p 78 Mason, Karen O, 1974 Sept p 143 Mason, Max, 1951 June p 43 Mason, Minam E, 1949 Dec p 56 Mason, Ronald G, 1961 Oct p 146, 152, Dec p 54, 1968 Apr p 57, Dec p 60, 61 Mason, W P, 1960 Oct p 151, 154 Mason, William A, 1962 Nov p 138 Massachusettes Institute of Technology, 1976 Feb p 85 Massachusetts Bay Colony, 1961 Apr p 150, 1971 Feb p 21 Massachusetts Department of Mental Health, 1978 Feb p 49 Massachusetts Eye and Ear Infirmary, 1962 June p 146, 146, 150 Massachusetts General Hospital, 1957 Jan p 70, 71, 73, 76, Sept. p 204, 211, 1958 Mar p 118, Aug. p 31, 1959 July p 67, 1963 Mar p 83, 1966 Nov p 135, 1977 June p 111 Massachusetts Institute of Technology, 1949 Apr p 26, 30, 32, 1951 Feb p 61-63, May p 36, 1952 Mar p 20, June p 21, Sept p 109, 114, 58, 61, 1953 May p 53, Aug. p 42, 1955 Aug. p 40, Sept. p 69, 1956 Jan. p 29. 32, Feb p 49, Sept p 110 111, Oct. p 58, Dec p 40, 1957 Feb p 57, Sept p 205, 206 208, 209, 211, 214, 216 Dec p 114, 1958 Feb p 33, Mar p 71, Apr p 64, May p 73. June p 33. July p 49, Nov p 60, 71, Dec p 94, 1960 Aug. p 50, 58, 60, 1961 Mar p 69, July p 74, Oct p 93, 1962 Feb p 124, Mar p 62, 78, June p 142, 143, 150-152, July p 109, 110, Sept. p 102, 93 Dec p 72, 1963 Mar p 91, 93, May p 91, July p 35, 42, 44 52, 54, Aug p 34 80, Sept p 112, 130 140 No. p 114, Dec p 129, 44 46 45, 51, 1964 Feo p 4), Mar p 113, 114 62, 64, 67 6), 55 Apr p 46, 49, May p 51, 55, June p 36, 72 79, 94 July p 36, 44, Sept p 142, 143 150,

Maiman, Theodore H., 1960 Oct p. 80, Dec p 80, 1961 June p 56, 1963 July p 34, 37, 1964 Dec p 60, 1968 Sept p 129, 1971 June p 22, 1974 June p 24 Maimonides Hospital, 1962 Oct p 48 Maimonides, Moses, 1967 Feb p 28, July p 50 Main, Charles T, 1965 Mar p 28 Main, Joan M., 1977 May p. 64 Main, Robert M, 1967 Oct p 56 Mair, G A, 1965 July p 46, 1966 Nov p 84 Mairan, Jean B D de, 1971 Apr p 72 Maisel, Albert Q, 1954 Feb p 42 Maita, J. P., 1971 Nov p. 28 Maiuri, Amedeo, 1963 Dec p 117, 121 Maizels, Nancy, 1974 June p 50 Majnarich, John J., 1949 Feb p 29 Majno, Guido, 1969 June p 48 Major, John K. 1954 June p 30 Makaronas, Ch J, 1966 Dec p 99 Makarov, Stepan O, 1961 May p 88 Maker, Paul D, 1963 July p 42, 1964 Apr p 42, 43 Makinodan, Takashi, 1973 Sept p 52 Makman, Richard, 1972 Aug p 100 Makowski, Lee, 1978 May p 150 Malacarne, Michele G, 1972 Feb p 22 Malamud, William, 1949 July p 44 Malawista, Stephen, 1974 July p 43 Malaya Tropical Fish Culture Research Institute, 1963 May p 152 Malcev, Anatoli, 1972 June p 83, 84 Maldonado, H, 1977 July p 118 Malecot, Gustave, 1969 Aug p 32 Malenkov, Georgi M., 1953 Oct p 50, 1954 May p 46 Malhotra, R. P., 1958 Nov p. 56 Malin, Michael C, 1973 Jan p 61, 1977 Jan Malina, Frank J., 1949 May p. 38 Malinovsky, Rodion Y, 1962 Apr p 46 Malmowski, Bronislaw, 1950 Sept p 81 Malkasian, Dennis, 1972 Feb p 27 Malkus, Joanne S, 1954 June p 34, 1957 Aug p 34, 1964 Dec p 27 Mallery, Garrick, 1974 Sept p 93 Mallet, Robert, 1962 May p 116 Mallina, R F, 1962 Oct p 50, 54, 55 Mallison, George F, 1973 May p 44 Mallock, A, 1977 July p 111 Mallowan, Max, 1977 Oct p 127 Mallucci, Livio, 1967 Nov p 69 Malm, John G, 1962 Nov p 76, 1966 Oct p 64 Malmberg, John H, 1966 Dec p 31 Malo of Brittany, Saint, 1960 Nov p 162 Malone, Dudley F, 1959 Jan p 120-122, 127, 128, 1969 Feb p 19, 20 Malpighi, Marcello, 1952 June p 62, 1953 Jan p 40, Feb p 28, 1954 Dec p 95, 1959 Jan p 54, 56, 1976 May p 99, 103 Maltby, Per, 1963 Dec p 56, 1966 June p 32, Dec p 48 Malter, L., 1966 Nov p 111 Malthus, Thomas, 1950 Feb p 11-13, 15, Aug p 11, 13, 1952 Aug p 18, 60, 1954 Oct p 33, 1956 Feb p 65, Mar p 64, 66, 1958 Sept p 108, 1959 Feb p 74, 80, May p 62, 64, 1960 Sept p 195, 1962 Feb p 139, 1964 Sept p 149, 1965 Sept p 151, 1967 Feb p 30, 1970 Jan p 108, Aug p 54, 1972 Feb p 93, 95, 99, 1974 Sept p 166, 1976 July p 34, Sept p 31, 34, 165, 1978 Jan p 99 Maly, Jaromir, 1969 Apr p 61 Man, Albon, 1959 Nov p 102 Manabe, Synkuro, 1970 Sept p 63 Manabe, Syukurs, 1971 Jan p 37 Manaker, Robert A., 1972 Jan p 26

Manchester College of Science and Technology, 1964 Nov p 68 Mandel, Elizabeth, 1967 July p 106 Mandel, George, 1967 July p 106, 108, 110 Mandel, J L , 1978 Feb p 76 Mandel, John, 1967 July p. 106, 108 Mandel, Lawrence, 1967 July p 106, 108 Mandel, Leonard, 1968 Sept p 55 Mandel, Morton, 1975 July p 28 Mandel, Sarah, 1967 July p 106, 108 Mandel'shtam, S L, 1961 Oct p 86 Mandelstam, Stanley, 1975 Feb p 65 Mandey, Venturus, 1964 Jan p 104 Maner, James, 1971 Aug p 39, 40 Manfredini, A., 1956 June p 41 Mange, Arthur P, 1968 Jan p 27 Mangelsdorf, Paul C, 1951 July p 50, Sept p 60, 1964 Nov p 30, 31, 1971 Aug p 38, 1973 Jan p 45 Mangold, Hilde, 1958 Dec p 38 Mangoliash, Emanuel, 1975 Aug p 56 Mangonès, E, 1969 Nov p 45 Manheim, Frank T, 1978 May p 62 Maniatis, Tom, 1974 June p 50, 1976 Jan p 73 Manitoba Provincial Legislature, 1953 Dec p 31 Manley, J H, 1949 May D 29 Manley, Oscar, 1967 Dec p 42 Mann, Alfred K, 1974 Dec p 108, 1975 Jan p 49, July p 46, Oct p 50, 1976 Jan p 47, 1977 May p 56 Mann, Edward D , 1963 Mar p 121 Mann, George V, 1955 Nov p 48, 1957 Dec p 64, 1960 Nov p 86, 1977 Dec p 86 Mann, Matthew D, 1963 Mar p 121-126, 128-130 Mann, S D, 1969 May p 24 Mann, Thaddeus, 1959 Aug p 121 Mann, Thomas, 1957 Dec p 98. Mannesmann-Huttenwerke A G, 1963 Dec p 76, 79 Mannheim, Karl, 1950 Sept p 81 Manniche, E., 1958 Jan p 46 Manning, A W G, 1970 July p 85 Manning, Dean W, 1974 Nov p 69 Manning, James M , 1975 Apr p 47, 49 Manning, L A, 1955 Sept p 136 Manning, W H, 1965 JUly p 79 Manning, W M, 1956 Dec p 67 Mansfield, Mike, 1970 Apr p 46 Mansfield, R J W, 1976 Dec p 45 Mansinha, L, 1968 Nov p 60, 1971 Dec p 80 Manson Patrick, 1952 June p 23, 1958 July p 96-98 Manton, Irene, 1961 Feb p 114, 1974 Oct Manufacturers Bank 1966 Sept p 147 Manufacturing Chemists Association, 1953 Mar p 46, 1957 Feb p 56 Manville, R. H., 1957 Apr p 76 Manwell, James C, 1972 Nov p 50 Manwell, Reginald D, 1953 Feb p 92 Manzoni, Alessandro, 1964 Feb p 117 Mao Tse-tung, 1972 Nov p 50, 1974 Apr p 20 22, 1975 May p 20, Oct p 113, 1978 June p 74 Maqia, Daniel, 1956 Apr p 66 Magsood, Ali S., 1973 Sept p 47 Maraini, Fosco, 1967 May p 35 Maramorosch, Karl, 1956 Feb p 49, 1960 Aug p 143, 1963 Aug p 51 Maran, Stephaen P, 1971 Feb p 31 Maran, Stephen P, 1968 July p 49, 1969 Mar p 46, 1971 Dec p 21, 1972 Aug p 59 Marbarx, Gerard, 1971 Dec p 40, 1976 Aug p 63, 69 Marcadel, James, 1963 May p 46

Marcatili, Enrique A J, 1972 Feb p 42 Marceau, Ian W, 1971 Feb p 84 Marcel Breuer and Associates, 1968 Sept p 195 Marcellus, Marcus Claudius, 1954 May p 82, 1977 Feb p 46, June p 64 Marcet, A M, 1953 Oct p 91, 1970 Nov p 105 March of Dimes, 1953 Mar p 52 March, R B, 1952 Oct p 22, 23, 25 Marchal, Elias, 1951 Apr p 55 Marchal, Émile, 1951 Apr p 55 Marchand, James, 1959 Feb p 74 Marchase, Richard B, 1974 June p 50 Marches, J R , 1953 Aug p 48 Marchesi, Vincent T, 1974 Mar p 27, 30, 1975 Dec p 31, 1978 Jan p 86 Marchessault, Robert H, 1968 June p 105 Marchetti, Cesare, 1973 Jan p 17, 18, 1974 Oct p 79 Marchi, Vitorio, 1971 July p 51 Marcinkevic, L. D., 1965 Nov p. 114 Marcker, Kjeld A, 1968 Jan p 40, Mar p 69, 1969 Oct p 34 Marconi, Guglielmo, 1949 Dec p 15, 1950 Sept p 28, 1951 Sept p 46, 1954 Apr p 64, 69, 1955 Sept p 126, 136, 1957 Jan p 47, Dec p 104, 1958 Sept p 66, 1965 Mar p 93-95, 96, 97, 1967 Nov p 26, 1969 Mar p 104, 106, 109-111, 1971 May p 87, 1972 Sept p 104, 1974 Mar p 100 Marcus Aurelius Antonius, 1957 Mar p 105, 1974 Dec p 121 Marcus, Philip I, 1957 Jan p 64, Aug p 93 Marcus, R A, 1964 July p 105 Marcy, Barton C Jr., 1970 May p 52 Marean, John, 1958 Apr p 64 Marek, Joseph, 1973 Oct p 28 Maresh, Marian, 1953 Oct p 70, 71, 73 Marey, Etienne J , 1958 Dec p 95, 1975 Nov p 87, 1977 Aug p 98 Marey Institute, 1970 July p 61 Marg, Elwin, 1971 June p 37 Margalef, Ramon, 1971 Sept p 127, 129, 130, 132 Margaret, Saint, 1974 Sept p 122 Margaria, Rodolfo, 1959 Mar p 62 Margarita Mane, Infanta, 1973 Sept p 35 Margenau, Henry, 1951 Mar p 24, 26 Margerie, Emmanuel de, 1950 Sept p 36 Marglin, Arnold, 1966 Dec p 64, 1968 Mar p 74 Margoliash, Emanuel, 1969 July p 87, 1972 Apr p 64, 65, July p 57, 1973 July p 52 Margolin, Abe, 1972 July p 93 Margolin, Sol, 1963 Nov p 104 Margolis, George, 1967 Jan p 113, 114 Margolis, Lester H, 1955 Feb p 52 Margoshes, Marvin, 1975 Jan p 52 Margossian, Sarkis S, 1975 Nov p 44 Margulis, Lynn 1970 Sept p 53, 1971 May p 42, Aug p 49 Maria Theresa, Empress 1948 Aug p 26, 1976 Jan p 115, 116 Marianna of Austria, 1973 Sept p 35 Mariano, Agnolo di, 1964 Nov p 124 Marie Antoinette, 1972 Jan p 94 Marie Pierre, 1950 Oct p 19 Marie, Queen of Romania, 1965 Aug p 89 Marignac, J C G 1951 Nov p 30 Marin, Munoz, 1966 Oct p 25 Mannatos, Spyridon, 1954 Dec p 75 1970 July p 52, 1976 Apr p 56 Marine Biological Association 1962 Aug p 48, 1971 Jan p 71 Marine, David, 1960 Mar p 119 120, 1971 June p 97 Marinelli, Giorgio, 1970 Feb p 35

96, Oct. p 114, Dec p 130, 1960 Aug p 125, Oct p 165, 1961 May p 113, Nov p 118-120, 125, 128, 1962 Mar p 128, Nov p 126, Dec p 123, 1963 Dec p 122, 124, 1964 Apr p 38, Sept p 129, 132, 43, 44, 95, Nov p 108, 1965 May p 58, 59, 1966 Aug p 89, 1967 May p 129, July p 50, Sept p 181, Nov p 103, 104, 105, 109, 110, 1968 Sept p 50, 51, 56, 1969 Mar p 106, 1970 May p 120, July p 19, 72, 94, 1971 June p 78, July p 94, Sept p 181, 182, 184, Dec p 80, 1972 Feb p 63, May p 30, 1973 June p 43, Dec p 85, 1974 July p 52, 54, Dec p 108, 1975 Mar p 64, 69, Aug p 49, Sept p 138, 152, 1976 Apr p 65, 77, May p 86, 90, 91, 96, June p 32, 33, 35, Sept p 70, Nov p 55, 1977 Mar p 64, Apr p 124, 126, June p 32, 1978 Feb p 126, 128, 129, 134, 138 Maxwell, James R., 1975 Jan p 72 Maxwell Laboratories, 1973 July p 48 Maxwell, Morton H., 1961 July p. 64 Maxwell Motorcar Corporation, 1977 Aug Maxworthy, Tony, 1976 Mar p 56 May, Everett L , 1966 Nov p 133, 1977 Mar p 47 May, Jacques M, 1953 Feb p 26, Oct p 54 May, John W, 1965 Mar p 38, 39 May, Raoul M, 1971 Dec p 32 May, Robert M, 1969 July p 31 May, Stella B, 1949 Dec p 55 Maya Airways, 1977 Mar p 117 Mayall, Nicholas U., 1948 May p. 37, 1955 Dec p 48, 1956 Sept p 98, 1971 July p 77, 1973 June p 30 Maybach, Wilhelm, 1949 Dec p 35, 1967 Mar p 102, 1972 May p 102, 107 Maybank, John, 1961 Jan p 122 Maybridge, Eadweard, 1976 Dec p 72 Maycock, William d'A, 1968 Nov p 50 Mayeda, Toshiko, 1958 Feb p 56 Mayer, Alfred M , 1968 Feb p 76, 78 Mayer, Cornell H. 1956 Aug. p 50, 1960 Jan p 49, 1961 May p 60, 1964 July p 39 Mayer, Jean, 1952 Sept p 74, 1964 June p 65, 1968 Jan p 45, 1976 Sept p 31 40 Mayer, Johann T , 1976 May p 90 Mayer, Joseph E. 1953 Aug p 41 Mayer Julius R von 1948 Aug p 26, 28 1954 Sept p 60, 1958 Mar p 96 1968 Jan p 115-Mayer Ludwig, 1955 Dec p 54 Mayer Manfred M 1949 June p 27, 1974 July p 87, Nov p 67 Mayer, Mana G., 1951 Mar p 24, 1953 Aug p 27 1955 Dec p 89 1959 Jan p 78 79 1963 Dec p 64 1964 Mar p 85, Apr p 46 1965 Aug. p 55 Oct p 41, 1966 July p 70 1969 Apr p 63 Mayer Robert 1965 July p. 74 Mayer Simon 1976 May p 108 Mayer Walter G 1963 June p 60 Mayer William F 1969 July p 52 Mayer Gross W 1950 Feb p 47 Mayfield Myles 1957 Sept p 214 Mashew Henry 1971 Oct p 101 Mayhew John L. W. 1976 Dec. p. 45 Maynard C J 1954 Aug p 67 68 Maynard Donald M 1907 Mar p 35 Mayne K I 1954 Nov p 40 1960 Nov p 173 Mayo Clinic 1949 July p 27 1961 Apr p 95 1962 July p 41 1963 Aug p 24 1970 Oct p 44 1973 Oct p 64 Mayo Loundation for Medical Lidication and Research 1960 Mar p 31-33-1958 July p 52 1963 July p 50 Mayo John's 1965 June p. 17, 1977 Sept.

p 192 Mayo, Louis H, 1970 Feb p 13 Mayow, John, 1954 Dec p 96 Mayr, Ernst, 1950 Jan p 33, 1957 July p 120, 128, 1963 Aug p 38, 1964 Oct p 116, 1966 Nov p 48 Mayr, Otto, 1970 Oct p 111 Mazelsky, Robert, 1964 June p 56 Mazevich, A, 1957 Dec p 58 Mazia, Daniel, 1952 Dec p 32, 1953 Feb p 47, 49, Aug p 53, 56, 1954 Sept p 81, 1955 Feb p 53,54, 1961 Sept. p 108, 54, 1977 Nov p 132-135 Mazur, Abraham, 1952 Dec p 66, 1964 Dec p 75 Mazur, Jacob, 1964 July p 106 Mazzarella, Leho, 1964 Nov p 75 Mbu, Matthew T, 1963 Feb p 64 Mc Namara, D H, 1963 Feb p 50 MCA Inc, 1975 May p 45 McAfee, Donald A, 1977 Aug p 111, 113 McAfee, K B, 1958 July p 52 McAlister, E D, 1969 Sept p 85 McAllester, David P, 1951 Oct p 40 McAuslan, BR, 1972 Jan p 29 McBain, J W, 1951 Oct p 28, 1959 Jan p 87 McBride, C N , 1977 Dec p 90 McBride, W G, 1962 Aug p 31 McBryde, Isabel 1966 Mar p 91 McBryde, Webster, 1954 Aug p 29 McBurney, Charles, 1963 Mar p 126-130 McCabe, Selwyn, 1965 Nov p 40 McCaffrey, Michael T. 1970 Apr p 101 McCaleb, Harvey C, 1975 May p 45 McCammon, Dan, 1973 Oct p 75 McCammon, Robert, 1953 Oct p 72, 73 McCandless W J, 1965 Mar p 99 McCann, John J 1972 June p 100, 1976 Feb p 58, 59, 1977 Dec p 112, 116, 117 McCann, William P , 1957 Aug p 62 McCarrison, Robert, 1971 June p 99 McCarthy Brian J, 1964 May p 56, 1969 Oct p 35 1970 Apr p 25 31 McCarthy Duncan A Jr, 1962 Aug. p 114 McCarthy, Eugene, 1967 Jan p 38 42, 1973 Nov p 27 1978 Feb p 76 McCarthy Frederick D 1966 Mar p 91 McCarthy John, 1964 Sept p 149, 1966 Sept p 130 170, 247 250 65 McCarthy Joseph R., 1954 Feb p 44, Apr p 44, June p 29-31 44 McCarthy, Kevin, 1966 July p 37 McCarthy Robert D 1969 July p 61 McCarthy Walter J 1967 Nov p 59 McCarty Maclyn 1953 Feb p 50, 51, 1956 July p 113 Oct p 88 Nov p 52, 1961 Sept p 74 Oct p 88 1966 Dec p 65, 1969 Jan p 38, 1972 Dec p 84 McCarty Richard, 1968 Feb p 37 McCarty Richard E. 1978 Mar p 104 113, 122 McCauley John F 1973 Jan p 55 McCay Clive M 1948 June p 41 43 1953 Apr p 38 42 1961 Aug p 116, 118, 1963 Apr p 106 1973 Sept p 49 McClain Edward F Jr 1956 Feb p 48, Sept p 129 Oct p 61 1957 July p 50, 53, 1960 Jan p 45 51, Aug. p 52, 1962 Sept p 102 McClaren Ann 1970 Apr p 26 McClellan John L. 1975 Apr p 53 McClellan Roger, 1966 June p 99 McClendon Jesse I 1950 Oct p 48 McClennen, Llux 1974 Sept p 35 McClintock Barbara 1951 Oct p 24, 25, 1961 June p 105 McClinton, Marshall 1949 Dec p 55 McClox John J. 1971 Mar p. 44

McClung, Frederick J Jr, 1964 Apr p 49 McClure, James N Jr., 1968 Feb p 54, 1969 Feb p 72, 1972 Feb p 88 McClure, W R., 1968 Aug p 46 McCollough, Celeste, 1976 Dec p 44, 45, 48 McCollum, Elmer V , 1970 Dec p 88 McColm, D W, 1966 Apr p 96 McComb, Robert D, 1956 June p 62 McCone, John A., 1958 Aug p 50, 1959 Apr p 64, May p 69, Sept p 104, 1960 Apr p 88, June p 80, 1967 June p 50 McConnaughey, Bayard H, 1972 Dec p 99 McConnell, Harden M, 1967 July p 42, 1971 Nov p 31, 32, 1972 Feb p 37, 1974 Mar p 31, 32, 1976 May p 38 McConnell, James V, 1958 Aug p 52, 1963 Feb p 55, 57 McConnell, Richard B, 1968 Nov p 49 McCook, Henry C, 1948 June p 18 McCord, Carey P, 1961 July p 101, 1965 July McCord, Thomas B, 1970 Aug p 46, 1975 Jan p 27, 30, 32, Sept p 144, 1976 May p 114 McCormack, James Jr, 1949 July p 33, 1975 Oct p 107 McCormack, Mike, 1974 Jan p 29 McCormick, Andrew, 1967 Jan p 38 McCormick, Cyrus, 1967 Aug. p 50, 52 McCormick, F J, 1963 June p 45, 46 McCosker, John E, 1977 Mar p 106 McCoy, H N, 1951 Nov p 30 McCoy, Herbert N, 1966 Aug p 91, 92 McCoy, Thomas A, 1968 Aug. p 34, 36 McCracken, George, 1973 July p 33 McCrady, Edward, 1953 May p 54 McCray, Richard, 1978 Jan. p 81 McCrea, William H, 1956 Sept p 157, Dec p 58, 1957 July p 69, 1960 Sept p 102, 1962 Feb p 53, 57 McCreary, R L, 1948 June p 27 McCrosky, Richard E., 1965 Oct p 35, 1970 Mar p 60 McCullaugh, T P, 1961 May p 60 McCulloch, Warren S. 1948 Dec p 14, 1949 Apr p 29, 1950 Dec p 24, 1951 Aug. p 17, 1955 Apr p 60, 1964 Jan p 42, Mar p 113 Sept p 150, 1966 Sept p 247, 1969 Jan p 84, 1971 June p 37 McCullough, E. A, 1974 Nov p McCullough, Timothy, 1960 Jan p 49 McCurdie, Dennis S., 1971 Jan p 46 McCutcheon, F H, 1963 Nov p 113 McCutcheon, W H, 1977 June p 77 McDade, Joseph E., 1978 Feb p 84 McDaniel, Boyce, 1960 Jan p 86 McDavid, Raven I. 1950 Jan p 48 McDermott, Walsh, 1949 Aug p 31, 34, 1964 McDermott, William V Jr 1956 July p 50 McDevitt, Hugh O, 1973 July p 57, 1977 Oct McDivitt, James A., 1969 Sept. p. 107 McDonald, Alison D., 1977 June p. 104 McDonald, Frank B, 1966 Oct p 44 McDonald, Henry, 1966 Jan p 51 McDonald James E., 1955 Jan p 30, 1961 Ap McDonald, Kent, 1977 Apr p 86 McDonald, L. 1972 Jan p 65 McDonald, M. R., 1948 Dec. p. 32. McDonald Observatory, see University of Texas McDonald Observatory McDonald Peter 1976 July p 57-58 McDonnell Aircraft Corporation, 1960 Aug. McDennell Douglas 1977 Feb p 25 McDonogh School 1958 Mar p 84

Dec p 81, 1965 Apr p 66, 72-74, 78, July p 27, 29, 65, 70, Aug p 30, Sept p 123, 132, 136, 197, 210, 214, 218, Oct p 29, 30, Nov p 84, 1966 Mar p 58, Apr p 93, May p 63, June p 42, Aug p 66, 68, Sept p 129, 130, 133-136, 138, 163, 177, 182, 188, 196, 247, 1967 Feb p 58, 1968 July p 99, Aug p 60, Dec p 37-42, 1969 June p 54, July p 50, 1970 Mar p 41, 60, June p 52, 68, July p 80, Sept p 78, 82, Nov p 44, 1971 Apr p 60, June p 65, 66, 72, July p 94, Sept p 51, 1972 Jan p 47, July p 72, 73, 1973 Jan p 44, Apr p 47, 53, 1974 Sept p 74, Nov p 51, 82, 84, 87, 1975 Jan p 48, Feb p 23, 26, 27, Aug p 48, 1976 July p 66, Sept p 52, 55, 1977 Jan p 79, Apr p 27, Aug p 63, 66, Sept p 153, Oct p 45, 50, 51, 54, 59, 1978 Jan p 53 Massachusetts Institute of Technology Francis Bitter National Magnetic Laboratory, 1964 June p 79, 1970 May p 57 Massachusetts Institute of Technology Francis Bitter National Magnet Laboratory, 1971 Nov p 30 Massachusetts Institute of Technology Francis Bitter National Magnetic Laboratory, 1975 Nov p 51 Massachusetts Institute of Technology Lincoln Laboratory, 1955 Sept p 69 Massachusetts Institute Of Technology Lincoln Laboratory, 1957 Jan p 49, 51 Massachusetts Institute of Technology Lincoln Laboratory, 1961 Apr p 72, July p 68, Oct p 81, Dec p 76, 1962 Feb p 104, 108, May p 58, June p 143, 144, 150, 62, 66, 1966 Sept p 93, 1971 July p 32, 1972 Aug p 44 Massam, T, 1965 Dec p 31 Massasoit, 1960 Feb p 37 Masse, Pierre, 1968 Mar p 48 Massell, Benedict F, 1949 Dec p 28 Massenbach, W von, 1962 Aug p 32 Masserman, Jules H, 1961 Feb p 42 Massey, A G, 1966 July p 96 Massini, Peter, 1962 June p 96, 98 Massmann, William H, 1973 Mar p 95 Masson, Paul, 1977 June p 56 Mast, Samuel O, 1950 May p 53, 1961 Apr p 122, Sept p 172, 174, 1962 Feb p 115, 118, 1971 Jan p 37 Masters, Robert V, 1949 Dec p 55 Masters, William H, 1966 June p 54 Masuda, Senichi, 1972 Mar p 57 Masuda, Tohru, 1976 Mar p 115 Masugi, M., 1949 July p 17 Masursky, Harold, 1973 Jan p 49, Oct p 48 Matalon, S, 1977 July p 96 Matas, Rudolph, 1961 Apr p 91 Matejka, Ladislav, 1977 Nov p 70 Material Service Corporation, 1958 July p 29 Matern, Ulrich, 1978 June p 86 Mathe, Georges, 1964 May p 92 Mathematica, 1972 Oct p 21, 23 Mathematical Association of America, 1948 Nov p 25, 1958 May p 71 Mather, Cotton, 1951 Aug p 39, 1957 Nov p 47, 1976 Jan p 114, 117 Mather, Increase, 1957 Nov p 47 Mather, John P, 1966 Feb p 53 Mather, Kenneth, 1970 Mar p 102 Mather, Kirtley F 1950 Feb p 24, 1951 Feb p 30, 1952 Feb p 30, 1953 Feb p 34, 1959 Jan p 122 Mather, R., 1950 Jan p 33 Mathes, F E, 1967 Apr p 93 Mathew, Patrick, 1959 May p 63 Mathews, Max, 1966 Jan p 51 Mathews, Peter, 1978 May p 96 Mathews, Shailer, 1959 Jan p 121, 122, 130

Mathewson, D S, 1963 Oct p 60, 1964 Jan p 36, 37, 41, 1978 Jan p 78 Mathias, A. P., 1962 Aug. p. 117 Mathias, L E S. 1965 Apr p 58 Mathieson Chemical Corporation, 1953 July p 32 Mathieson, Eunice, 1949 Aug p 38 Mathur, Pracheeshwar S, 1969 Mar p 35 Mathushek, Frederick, 1965 Dec p 92 Matyasevic, Yu V, 1970 Sept p 86 Matisoo, Juri, 1972 Apr p 91 Matloff, Jacob J, 1962 Oct p 56 Matrone, Gennard, 1968 May p 111 Matson, Dennis, 1975 Jan p 28 Matsuoka, M, 1964 June p 42 Matsushita Electric Industrial Co., 1970 Mar Matsuzaki, Shohei, 1975 May p 44, 1976 Mar p 32 Mattauer, Maurice, 1977 Apr p 34 Mattern, C F T, 1959 Feb p 89 Matteucci, Carlo, 1952 Nov p 57, 1960 Oct p 117 Mattews, Thomas A, 1966 Dec p 40 Matthaei, J Heinrich, 1961 Dec p 81, 1962 Feb p 49, 76, Mar p 68, 69, July p 78, Oct p 66, 74, 1963 Mar p 84, 86, 1966 Apr p 107, 1968 Jan p 36, Dec p 48, 1969 Oct p 28 Matthes, François E, 1970 June p 101, 102 Matthes, Gerard H, 1952 Mar p 24 Matthews, B C, 1952 Nov p 57 Matthews, D H, 1964 Nov p 53, 1965 Nov p 108, 1967 Feb p 54, 1968 Apr p 57, Dec p 61, 1969 Nov p 103, 114, 1972 May p 56, 1973 May p 67 Matthews, FE, 1956 Nov p 79, 81 Matthews, G V T, 1954 Oct p 75, 1958 Aug p 43, 1974 Dec p 98, 101 Matthews, J M, 1966 Mar p 90 Matthews, Larry S, 1978 Jan p 44 Matthews, R E F, 1955 July p 78 Matthews, Robert W, 1975 Dec p 108 Matthews, Thomas, 1970 Dec p 22, 1971 May p 56 Matthews, Thomas A, 1963 May p 77, Dec p 56, 60, 1964 May p 59, 1966 June p 32 Matthey, Robert, 1956 May p 48 Matthiae, G, 1973 Nov p 41 Matthiae, Paolo, 1977 Sept p 101 Matthias, Bernd T, 1957 Nov p 92, 96, 100, 1958 June p 30, 1960 Mar p 77, 78, 1961 Apr p 80, 1962 June p 62-64, 66, 82, 1963 Mar p 106, 1967 July p 42, 1970 May p 57, 1971 Nov p 22, 27, 28 Matthiessen, G C, 1970 Dec p 16 Mattiasson, Bo, 1971 Mar p 28 Mattiesen, Augustus, 1963 Jan p 89 Mattingly, Harold B, 1974 Dec p 129 130 Maturana, Humberto R, 1964 Mar p 113, 1969 May p 114, 1971 June p 37 Matuyama, Motonori, 1967 Feb p 48 49 Matyasevich, Yun, 1973 Nov p 84, 85 87, 90 Matzke, Edwin B, 1954 Jan p 64 Mauborgne, Joseph O, 1966 July p 42 Mauchly, John W, 1949 June p 30, 1964 Sept p 203, 1966 Sept p 67, 68 Mauchly, S J, 1953 Apr p 36 Maude, David L, 1962 Aug p 100 Maudslay, Henry, 1952 Sept p 102, 104 107, 114, 1957 Nov p 47, 1963 Apr p 133 139 140, 142 Maudsly Hospital, 1963 Mar p 103 Maugenet, Jacques, 1972 Apr p 96 Maugham, Somerset, 1949 Nov p 15 Maughs, Sydney B, 1950 Mar p 29

Maunder, E Walter, 1952 Jan p 55, 1977 May p 92, 80-83, 85 87 Maupas, Philippe, 1977 July p 49 Maupassant, Guy de, 1958 June p 74 Maupertuis, Pierre-Louis M de, 1955 Oct p 100-103, 106, 108, 110, 1957 Dec p 42, 1967 Oct p 70 Maurer, Russell A , 1976 Jan p 75 Maurette, Michel, 1969 June p 35, 36, 1973 July Maurice of Nassau, Prince, 1959 Oct p 162 Maurolico, Francesco, 1964 May p 108 Maurolycus, Franciscus, 1958 Apr p 62 Mausner, Bernard, 1955 Feb p 36 Mauss, Marcel, 1957 Feb p 123, 1978 Apr p 106 Mauvissiere, Marquis de, 1973 Apr p 86 Mauzey, Karl P. 1972 July p 96, 97 Mauzy, R, 1968 Nov p 56 Mawson, C A, 1955 Oct p 39 Mawson, Douglas, Sir, 1961 Mar p 72, 1962 Sept p 64, 1970 Nov p 89 Max, Gabriel, 1966 Nov p 46 Max Planck Institute, 1970 Nov p 45 Max Planck Institute for Biochemistry, 1963 Apr p 114, May p 101, 1964 Aug p 24, Nov p 72 Max Planck Institute for Biology, 1963 Nov p 118, Dec p 46, 52, 1964 Apr p 50, 51, 1965 June p 43, 44 Max Planck Institute for Biophysical Chemistry 1977 Feb p 113 Max Planck Institute for Chemistry, 1965 Oct p 35 Max Planck Institute for Coal Research, 1963 Jan p 96 Max Planck Institute for Comparative Ethology 1958 Dec p 71, 72 Max Planck Institute for Marine Biology, 1964 Apr p 53, 1966 Nov p 118 124 Max Planck Institute for Molecular Genetics 1976 Oct p 46 Max Planck Institute for Nuclear Physics 1965 Oct p 28 Max Planck Institute for Protein Chemistry, 1963 Apr p 114 Max Planck Institute for Psychiatry 1977 Mar Max Planck Institute for the Physiology of Behavior 1962 Mar p 51 52 Max Planck Society for the Advancement of Learning, 1949 Apr p 27 Max Planck Society for the Advancement of Science 1948 July p 31 Max Vollmer Institute 1965 July p 82 Maxam Allan 1976 Jan p 66 75 1977 Dec p 56 Maxfield Joseph P, 1961 Aug p 77 Maxim Hiram P Jr., 1973 Mar p 88 Maximilian I 1948 May p 25 Maximov, Alexander 1949 Oct p 32 33 39 Maxwell, Arthur E 1962 May p 124 1968 Aug p 60, 1973 Apr p 40 Maxwell Emanuel 1965 Apr p 76 Maxwell Hu 1948 June p 53 Maxwell James C 1948 Sept p 18 Nov p 14 Dec p 18, 1949 Mar p 53 54 Nov p 41 1950 Jan p 22 Feb p 24 Apr p 14 May p 21 Sept p 31 Oct p 39 1951 Fcb p 20 Oct p 15, 1952 Mar p 62 63 Aug p 43 45 51 1953 Jan p 52 56 Feb p 70 78 Apr p 58 59 Sept p 52 Oct p 43 91 98 Nov p 96, 1954 July p 73 77 Sept p 145 1955 June p 58-71 July p 69 Aug p 62 64 1957 Jan p 84, June p 99 100 106 Dec p 100 104, 1958 Mar p 102 94 Apr p 56 Sept p 66, 74-76 77, 81, 82, 1959 May p 84 87

ndex to Proper Names 1967 Jan. p. 37, 38; 1972 Oct. p. 84. Seinzer, O. E., 1950 Nov. p. 15. deissel, M. N., 1955 Oct. p. 38. Meissner, P. B., 1959 Feb. p. 51. Meissner, W., 1957 Nov. p. 92; 1965 Oct. p. 57; 1966 May p. 31; 1967 Mar. p. 116, 117; 1971 Mar. p. 75; Nov. p. 22, 26. Meister, Alton, 1961 Oct. p. 67. Meitner, Lise, 1958 Feb. p. 76, 77. Mejdahl, Vogn, 1975 Feb. p. 42. Mela, Pomponius, 1968 Oct. p. 114. Melaart, James, 1965 Apr. p. 87. Melander, A. L., 1952 Oct. p. 22. Melbourne, W. G., 1961 June p. 115. Melcher, G. C., 1968 Apr. p. 59. Meldgaard, Jorgen, 1953 Oct. p. 85; 1954 June p. 86. Meldrum, N. U., 1959 Aug. p. 119. Melendez, Luis V., 1973 Oct. p. 33. Meleney, F. L., 1952 Apr. p. 50. Mellaart, James, 1955 July p. 43, 44, 46; 1961 Aug. p. 86; 1964 Apr. p. 94; Aug. p. 43; 1976 Sept. p. 94. Mellan, Claude, 1972 Sept. p. 88, 91. Mellanby, Edward, Sir, 1949 Jan. p. 28; 1970 Dec. p. 82, 88. Mellin, Gilbert W., 1966 July p. 31. Mellinger, Raymond, 1972 July p. 80. Mellink, Machteld J., 1961 June p. 128. Mellitus, Abbot, 1951 Oct. p. 64. Mello, Nancy K., 1971 Mar. p. 99, 101. Mellon Institute, 1965 Dec. p. 22. Mellon, Melvin G., 1951 Oct. p. 33. Mellor, John W., 1976 Sept. p. 155, 37. Mellors, Malcolm, 1960 Oct. p. 84. Mellors, Robert C., 1961 Jan. p. 59; 1962 July p. 45. Melman, Seymour, 1962 Feb. p. 72. Melmon, Kenneth L., 1974 Nov. p. 18. Melner, Robert J., 1977 Oct. p. 99. Melnick, Joseph L., 1949 Oct. p. 28; 1952 June p. 34; 1953 Apr. p. 29; 1965 July p. 93; 1966 Mar. p. 34; 1977 July p. 44. Melton, Arthur W., 1966 July p. 91, 92, 94; 1967 Oct. p. 117-119, 121. Meltzer, D. W., 1968 Apr. p. 42. Meltzer, Lawrence E., 1968 July p. 21. Melvill, Thomas, 1951 Dec. p. 68. Melville, Herman, 1956 Dec. p. 46; 1966 Aug. p. 13. Melzack, Ronald, 1961 Feb. p. 41. Memorial University of Newfoundland, 1970 June p. 113; 1976 Nov. p. 127. Menaechmus, 1949 Jan. p. 41, 44. Menaker, Michael, 1968 Sept. p. 180.

Menander, 1959 Oct. p. 88; 1966 Feb. p. 106, Menard, Henry W., 1959 Oct. p. 83; 1960 Dec. p. 64; 1961 Dec. p. 54; 1963 Apr. p. 97; 1968

Mencken, H. L., 1959 Jan. p. 125; 1969 Feb. p 19. Mencola, D., 1975 Nov. p. 37. Menday, D. C., 1977 Aug. p. 97. Mendel, Gregor J., 1948 Sept. p. 30, 34; 1949 May p. 26; Dec p. 56; 1950 Jan. p. 32, 36, Sept. p. 55, 56, 57, Nov. p. 30, 31; 1951 Oct. p. 22, 57, 1952 Feb. p. 66; 1953 Jan. p. 51; 1954 Jan. p. 72, 74, Oct. p. 82; 1955 Oct. p. 100, 106, 108, 110, 1956 Oct. p. 79-81; 1957 Oct. p. 110, 1959 Mar. p. 48; May p. 60, 63; 1961 Sept. p. 74, Nov. p. 68; 1964 June p. 85; Sept. p. 146, 1965 Jan. p. 71; 1966 July p. 58; 1967 May p. 87, 1968 June p. 88; July p. 55; 1970 Nov. p. 27, Dec. p. 102; 1972 Dec. p. 86, 87, 91, 1975 Aug. p. 50. Mendelees, Dmitri I., 1949 May p. 35; 1950

June p. 52; 1951 Nov. p. 30; 1955 Oct. p. 37; 1956 May p. 35, 39; Dec. p. 77; 1957 July p. 88; 1963 Jan. p. 89; Apr. p. 70; 1964 Oct. p. 36; 1969 Apr. p. 66; June p. 56; 1975 Nov. p. 102; 1978 June p. 88. Mendelssohn, H., 1970 June p. 95. Mendelssohn, Kurt, 1958 June p. 32, 33; 1962 June p. 60, 62. Mendenhall, Charles E., 1965 Jan. p. 41; 1973 June p. 45. Mendlowitz, Harold, 1968 Jan. p. 81. Mendoza, Carlos, 1977 July p. 62. Mendoza, Eugenio, 1967 Aug. p. 36; 1968 Aug. p. 58, 59; 1969 Dec. p. 28; 1972 Aug. p. 60. Menendez, Eduardo B., 1959 Mar. p. 55. Menes, J., 1961 July p. 51. Menger, K., 1954 Apr. p. 88. Menkaura, Pharaoh, 1957 July p. 107. Menninger, Karl, 1954 Nov. p. 89; 1974 June p. 20. Menninger, William C., 1971 Mar. p. 35. Menon, T. K., 1956 Oct. p. 57; 1965 Feb. p. 95, 96, 100; 1968 Mar. p. 54. Mensdorff, Count, 1965 Aug. p. 89. Mensik, J., 1977 Dec. p. 101. Mental Health Information Service, 1964 June p. 54. Menten, Maud L., 1969 May p. 39, 40. Menter, J. W., 1961 Oct. p. 114; 1967 Sept. Menth, A., 1971 Nov. p. 31, 32. Menton, Maude, 1959 Aug. p. 120, 122; 1966 Nov. p. 88. Menuhin, Yehudi, 1976 Dec. p. 28. Menzel, Donald H., 1948 May p. 42; 1950 Feb. p. 26; 1951 Dec. p. 21; 1952 Oct. p. 56; 1953 May p. 70; Sept. p. 67; 1960 Dec. p. 84; 1973 Oct. p. 69, 77; 1976 Feb. p. 52. Menzel, Randolf, 1976 July p. 112, 113. Menzies, Robert J., 1956 Dec. p. 90, 92. Menzinger, M., 1968 Oct. p. 52. Menzione, A., 1973 Nov. p. 42. Mercantile Trust Company N.A., 1966 Sept. p. 147. Mercer, E. H., 1969 Aug. p. 88; 1971 Dec. p. 34. Mercer, John, 1957 Sept. p. 166. Merceux, C., 1968 Apr. p. 76. Mercier, J.-C., 1978 Apr. p. 128. Mercier, Jean, 1955 Aug. p. 64-66. Merck Institute for Therapeutic Research, 1963 Nov. p. 103, 104; 1966 Nov. p. 135, 136; 1971 July p. 27. Merck, Sharpe and Dohme Company, 1949 July p. 29; Aug. p. 30, 31, 33, 34; 1950 Mar. p. 31, 33, 36; 1951 July p. 31; 1955 Jan. p. 58-60; 1957 May p. 64; 1963 July p. 50; Oct. p. 46; 1976 Dec. p. 50. Merck, Sharpe and Dohme Research Laboratory, 1969 Mar. p. 46; June p. 54; 1977 Apr. p. 45. Apr. p. 56; 1969 Sept. p. 56; Nov. p. 107, 114. Mere, Chevalier de, 1950 Oct. p. 44.

Meredith, George, 1973 Dec. p. 110. Meredith, J. E., 1976 June p. 118. Meredith, James, 1967 Apr. p. 21. Meredith, Leslie, 1959 Mar. p. 39. Mergen, François, 1963 June p. 45. Mergenhagen, Stephen E., 1973 Jan. p. 31. Mergenthaler Linotype Company, 1963 June p. 130; 1967 Dec. p. 55. Mergenthaler, Ottmar, 1969 May p. 63, 64. Merhaut, Josef, 1973 July p. 28. Merigan, Thomas C., 1968 Feb. p. 52; 1971 July p 27, 1976 Nov. p 70; 1977 Apr. p. 49. Merimee, Thomas J., 1967 July p. 105. Mering, Joseph von, 1958 Jan. p. 60. Meritt, Benjamin D., 1959 June p. 61; 1961

Mar p 115.

Merkel, Freidrich, 1974 Dec. p. 103. Mermin, N. David, 1976 Dec. p. 56. Mero, John, 1958 Oct. p. 58. Merriam, C. Hart, 1954 Aug. p. 66; 1970 Feb. p. 57. Merriam, Charles E., 1950 Nov. p. 11. Merriam, John D., 1974 July p. 96. Merriam, John R., 1973 Dec. p. 27. Merriam, Robert W., 1968 Dec. p. 35. Merrick, Harry V., 1978 Apr. p. 99. Merrifield, R. B., 1965 Aug. p. 46; 1966 Dec. p. 58; 1969 Mar. p. 47; 1971 Mar. p. 31. Merrifield, Richard E., 1969 May p. 56. Merrihue, Craig M., 1963 Mar. p. 73; Oct. p. 67. Merrill, John P., 1960 Apr. p. 137; 1962 Oct. p. 56; 1963 Jan. p. 119. Merrill, Paul W., 1948 Aug. p. 16; 1953 Mar. Merrill, Susan H., 1965 May p. 48; 1966 Feb. p. 37. Merriman, Daniel, 1949 Oct. p. 18; 1955 Mar. p. 54; 1970 May p. 42. Mersenne, Marin, 1953 Mar. p. 84-86; 1959 Oct. p. 162, 166; 1960 Oct. p. 145; 1964 May p. 113, 115; 1967 Dec. p. 97; 1971 June p. 56. Mersenne, Père, 1949 Aug. p. 45. Merton, Robert, 1967 Nov. p. 29; 1972 Dec. p. 91. Merton, Robert K., 1949 Feb. p. 17; 1953 Mar. p. 44. Mertz, Edwin T., 1965 Aug. p. 44; 1969 Nov. p. 58; 1971 Aug. p. 35, 36. Mertz, Janet, 1975 July p. 28. Mertz, Lawrence, 1968 Sept. p. 80. Mertz, Walter, 1972 July p. 59. Meryman, Harold T., 1956 Mar. p. 58. Meryt-Nit, Queen, 1957 July p. 109. Merz, James L., 1973 Apr. p. 69. Merzhanov, K. M., 1970 Nov. p. 63. Mesannepadda, 1957 Oct. p. 81.

Mescheryakov, M. G., 1956 Aug. p. 30. Meselson, Matthew S., 1958 Apr. p. 50; 1962 Feb. p. 47; 1964 May p. 51, 52; 1965 Aug. p. 74, 75; 1966 Jan. p. 37; Nov. p. 65; 1967 Feb. p. 39, 42; 1969 Oct. p. 29, 31; 1970 Jan. p. 90; Feb. p. 43; May p. 15; 1971 Feb. p. 44; 1973 Nov. p. 47. Meserve, Frederick H., 1954 July p. 73. Meservey, Robert, 1965 Apr. p. 78. Mesibov, Robert E, 1976 Apr. p. 44. Mesilim, King of Kish, 1957 Oct. p. 83.

Messenger, Harry, 1977 June p. 100. Messier, Charles-Joseph, 1956 Sept. p. 102; 1963 Apr. p. 60; 1973 June p. 30; Dec. p. 39; 1977 Nov. p. 77. Meszler, Richard M., 1973 May p. 97, 99.

Metacomet, 1960 Feb. p. 37 Metcalf, G. F., 1954 Mar. p. 88. Metcalf, Maynard, 1959 Jan. p. 122, 125. Metcalf, Theodore G., 1975 Nov. p. 53. Metcalfe, A. G., 1956 Jan. p. 52. Metchnikoff, Elie, 1949 Dec. p. 17; 1951 Feb. p. 48, 49, 52; 1956 Aug. p. 97; 1961 Sept. p. 174; 1967 Nov. p. 26, 65; 1977 May p. 76. Metelli, Fabio, 1975 Aug. p. 75. Metherell, Alexander F., 1968 Jan. p. 46. Methodius, Saint, 1968 May p. 37. Methuselah, 1961 Aug. p. 113. Metlay, William, 1968 Aug. p. 94. Meton, 1974 Sept. p. 72 Metraux, Alfred, 1949 Feb. p. 50, 54; 1952 Nov. Metropolis, Nicholas C., 1965 Aug. p. 56. Metropolitan Edison Company, 1968 Nov.

p. 56.

Metropolitan Life Insurance Company, 1949 Mar. p. 26; 1950 Apr. p. 31; 1953 Apr. p. 42,



McDougall, Ian, 1967 Feb p 51, 52 McDougall, James K , 1974 July p 40, 41 McDowell, A N, 1949 Feb p 18, 1961 Feb p 98 McElroy, Michael, 1975 Sept p 111, 29, 1977 July p 39 McElroy, W E, 1953 Apr p 90 McElroy, William D, 1953 Jan p 22, 1965 July McEvedy, Colin P, 1967 Feb p 58 McEwan, R J, 1961 May p 62 McEwen, Bruce S, 1971 Jan p 31 McFadden, Edgar S, 1951 Apr p 58, 1953 July p 54, 55, 59, 1956 Feb p 48 McFadyen, John, 1966 Aug p 42 McFadzean, J A, 1958 July p 99 McFarlan, John, 1972 Feb p 95 McFarland, B B, 1969 Feb p 34 McFarland, Ross A, 1957 Aug p 58 McFarlane, R A, 1963 July p 38 McFee, A F, 1966 June p 99 McFee, J H, 1961 Nov p 84, 1963 June p 63 McFeely, R A, 1966 June p 99 McGarrah, Robert E Jr, 1974 Sept p 64 McGavin, S, 1961 May p 122 McGee, J D, 1956 Mar p 90, 1968 Sept McGee, R X, 1964 Jan p 36, 37, 41 McGee, W J, 1950 Nov p 15, 1956 Jan p 70, McGeehan, WO, 1952 Oct p 48 McGeer, Patrick L, 1966 Nov p 74 McGeoch, John, 1967 Oct p 117, 118, 124 McGhee, Robert G, 1976 Nov p 122 McGill University, 1958 Sept p 138, 141, Dec p 38, 1963 Aug p 107, Oct p 28, 1964 June p 60, 1965 Mar p 83, 1971 Feb p 21 McGill, William J., 1978 Jun p. 83 McGlone, Jeannette, 1973 Mar p 78 McGoon, Dwight C, 1962 Jan p 68 McGovern, George, 1972 Oct p 19, 1978 June p 48 McGovern, Joseph, 1959 July p 67 McGranahan, Donald V, 1961 Dec p 45 McGraw, Alva, 1964 Dec p 96 McGraw-Hill, Inc , 1970 Apr p 54, 1971 Feb p 101 McGregor, Douglas, 1973 July p 56 McGregor, V R, 1977 Mar p 97-99 McGuire, A D, 1949 Feb p 28 McGuire, James B, 1961 July p 68 McGuire, Joseph C, 1956 Apr p 64 McGuire, William L, 1976 Feb p 43 McHose, Allen I, 1956 Feb p 84 McIlwain, Carl E, 1958 Oct p 54, 1959 Mar p 40, 42, 45, 1965 Mar p 67, Dec p 55 McIndoe, Archibald, Sir, 1957 Apr p 62 McIntosh, Richard J, 1972 Nov p 104 McIntyre, Hugh C, 1975 Nov p 33 McIntyre, Peter M, 1977 Apr p 58 McIrvine, Edward C, 1971 Oct p 77 McIsaac, William M, 1965 July p 57 McKee, Edwin D, 1976 Oct p 113, 114 McKee, Jack E, 1952 Oct p 39 McKee, Suzanne P., 1975 July p 60, 1976 Feb p 59, 1977 Dec p 116, 117 McKeehan, L W, 1954 Apr p 44, 1961 Sept p 144 McKellar, Andrew, 1967 June p 33 McKelvey, Richard, 1976 June p 25 McKenzie, D P, 1970 Sept p 91, 1972 May p 63, 1976 Nov p 72, 1977 Mar p 101, 104, Apr p 32,40 McKeown, M H, 1972 July p 51 McKeown Thomas, 1951 Apr p 35 McKerrel, Hugh, 1975 Feb p 42 McKerrell, H. 1971 June p 105

McKinley, D W R, 1951 June p 27, 1952 Aug McKinley, William, 1963 Mar p 118-130 McKinney, Robert, 1955 May p 50, 1956 Mar McKinnon, Donald W, 1958 Sept p 151 McKusick, Victor A, 1971 Sept p 179, 1974 July p 36 McLachlan, Andrew, 1975 Nov p 43 McLane, S Brooks, 1968 Mar p 53 McLarney, William, 1971 Apr p 104 McLaughlin, Dean B, 1962 Apr p 59 McLaughlin, Donald H, 1950 Dec p 26 McLaughlin, Patricia J., 1969 July p. 87 McLean, Eugene O, 1973 May p 37 McLean, Franklin C, 1965 Oct p 18 McLean, I W, 1949 Aug p 32 McLean, James D, 1975 Nov p 118, 119 McLean, Jay, 1961 July p 58 McLeish, W L, 1969 Sept p 85 McLennan, A M, 1952 Feb p 38 McLennan, J Ferguson, 1956 May p 70 McLennan, John C, 1949 Mar p 29 McLouth Steel Corporation, 1963 Dec p 86 McLuhan, Marshall, 1968 July p 82 McMahon, Brien, 1949 Mar p 24, Apr p 24, July p 26, Aug p 25, 1950 Mar p 25, Apr p 23, May p 14, June p 13, Aug p 15, 28, 1951 Nov p 32, 1952 Apr p 37, 1953 Jan p 31, 1975 Oct p 107 McMahon, DO, 1949 June p 33 McMath-Hulbert Observatory, 1948 Nov p 27, 1949 July p 23 McMenamy, Rapier H, 1974 Feb p 89 McMillan, Alan F, 1953 Mar p 50 McMillan, Edwin M, 1948 June p 29, 1949 Mar p 25, 1950 Apr p 45, 46, 1951 Feb p 22, Nov p 33, 1952 Jan p 38, 1954 Dec p 52, 1958 Feb p 78, Mar p 69, 1961 Mar p 80, 1967 Nov p 25, 28, 1975 May p 42 McMillan, James, 1967 Nov p 103, 105 McMullan, Dennis, 1972 Jan p 56 McMurrey Refining Co, 1952 Sept p 82, 86 McNair Scott, T F, 1949 Nov p 50 McNally, Derek, 1972 Aug p 59 McNally, J Rand Jr, 1963 Mar p 107, 1971 Feb p 58 McNamara, D H, 1971 May p 106 McNamara, David, 1964 Feb p 66 McNamara, E, 1956 June p 52 McNamara, Robert S, 1962 Apr p 45, Sept p 100, 1963 Feb p 64, Aug p 48, 1966 Jan p 46, 1967 July p 40, Nov p 52, 1968 Jan p 44, Feb p 50, Mar p 21, 23, 24, 31, Nov p 54, 1969 Apr p 15 20, Aug p 18, 1972 Nov p 16, 1973 Feb p 18, Aug p 12, 19, Nov p 24, 26, 27, 1974 May p 20, 21 24 1978 May p 44 McNeil, Mary, 1965 June p 62 McNeil, Michael 1975 Apr p 93 McNeill, Patricia, 1970 Apr p 88 89 McNiel, Elton B, 1958 Aug p 52 McNiff, Edward J Jr 1970 May p 57 McPherson, Aimee S 1969 Feb p 17 18 21 McPherson, Alexander, 1978 Jan p 59 McPherson, Ross, 1978 June p 66 McQueen, Hugh J 1975 Apr p 121 McQueen, R G, 1965 June p 106 108 McQuillen, Kenneth, 1960 June p 138 McReynolds Andrew W 1976 Jan p 61 McShane Edward J, 1956 Aug p 49 McTear, Houston, 1976 June p 110 McVay, Scott, 1966 Aug p 13 McWhirter, K G, 1956 Dec p 62 McWhorter Alan L, 1963 July p 38 McWhorter, Frank P, 1960 Aug p 138 Mead, Carver A 1977 Sept p 210

Mead Corporation, 1966 Sept p 177 Mead, George H, 1950 Sept p 81, 1968 Feb p 96 Mead, Jeremiah, 1973 Apr p 80 Mead, Margaret, 1948 Nov p 15, 1950 Sept p 88, 1955 Feb p 52, 1960 Sept p 98, 1962 Feb p 72, 1963 May p 75, 1971 May p 46, 1972 Jan p 47, 1973 May p 27 Mead, Thomas, 1970 Oct p 116 Mead, W C, 1966 June p 110 Mead-Briggs, Anthony R., 1965 Dec p 46 Meade, James E, 1977 Dec p 84 Meador, D L, 1968 Sept p 193 Meadows, Arthur J, 1963 Feb p 50 Means, W J, 1961 June p 156 Mearl Corporation, 1971 Jan p 65 Mech, J F, 1956 Dec p 67 Mechanic, David, 1973 July p 23 Mecking, William, 1961 Sept p 85 Medawar, Peter B, 1954 Nov p 74-76, 1956 Nov p 66, 1957 Apr p 62, 64, July p 102, 1959 Oct p 62, 1960 Dec p 74, 1961 Aug p 118, 1965 Sept p 190, 1967 Nov p 28, 1972 June p 30 32, Dec p 90, 1973 July p 55, 1974 Apr p 43 Medici, Cosimo de, 1976 Apr p 112 Medici, Lorenzo de, 1951 Mar p 42 Medici, Maria de, 1971 June p 92 93 Medieval Village Research Group, 1976 Oct p 125 Medvedev, S A, 1971 Nov p 33 Meech, Robert, 1977 Nov p 137 Meegeren, Han van, 1952 July p 22, 23 Meehl, Paul E, 1956 Mar p 60 Meek, Arnold, 1974 Dec p 80 Meek, E S, 1974 Dec p 80 Meek, J M, 1949 Feb p 23, 24 Meekins, J F, 1969 July p 52 Meeks M Littleton 1965 July p 29, 1966 Jan p 49, 1968 Aug p 60, Dec p 37, 40, 1973 Apr p 40 Meen, V B, 1951 Oct p 34, 1958 July p 33, 1961 Aug p 51 Meene, J G C van de, 1969 June p 83 Meer, Simon van der, 1973 Nov p 40 41, 1977 Apr p 58 Meerwein, Hans 1976 Feb p 109 Meeuse Bastiaan J D, 1966 July p 80 Mefferd Roy B 1963 Mar p 102 Megasthenes 1968 Oct p 114 Megaw E C F S 1957 Jan p 48 Megaw J V S 1966 Mar p 91 Meggers Betty J 1962 Apr p 80 1975 May p 44 Meggers William F 1968 June p 56 Mehrabian Robert 1974 Dec p 93 Meier Albert H 1975 Aug p 109 Meier David L 1976 May p 54 Meier Richard L 1950 Aug p 19 1956 July p 106 1960 Sept p 202 Meyer R J 1971 Sept p 84 Meikle Andrew 1970 Oct p 117 Meikle Thomas H Jr 1964 Jan p 48 1972 Dec p 75 77 Meiklejohn Alexander 1972 Sept p 164 Meillon Botha de 1962 May p 89 Meindl James D 1977 Sept p 64 70 85 171 Meinel Aden B 1955 Fcb p 40 Scpt p 144 1958 Apr p 50 1971 Sepi p 66 158 1972 Jan p 79 Meinel Hermann 1962 Nov p 87 Meinel Majorie P 1971 Supt p 66 158 Meinesz, Felix A 1950 May p 38 1963 Apr Meinhardt Hans 1974 Dec p 53 Meinhof Carl 1971 Dec p 90 Meinschein Warren G. 1963 Mar. p. 45-46

Miller, James A, 1975 June p 26 Miller, Jeffrey, 1970 June p 44 Miller, John D, 1976 Sept p 70 Miller, John G, 1971 Aug p 47 Miller, Joseph S, 1969 Mar p, 1971 Jan p 49, Miller, Naomi, 1978 Jan p 117 Miller, Neal E, 1956 Oct p 107, 114, 1957 Feb p 58, 1958 Jan p 82, 1961 Feb p 46, 48, 1966 Aug p 85, 1969 Apr p 49, 1970 Jan p 32-37, 39 Miller, O J , 1963 July p 59 Miller, O L, 1973 Aug p 25, 26 Miller, Perry, 1955 May p 56 Miller, Ralph, 1955 Feb p 98 Miller, Richard S , 1974 May p 91 Miller, Robert C, 1964 Apr p 43, June p 56, 1967 May p 56 Miller, Robert E, 1971 Jan p 27 Miller, Robert R , 1949 May p 50 Miller, Robert W, 1973 Oct p 32 Miller, Stanley L, 1953 July p 42, 1954 Aug p 48, 52, 1963 Mar p 45, Aug p 52, 1972 June p 41 Miller, Stewart E, 1968 Mar p 107, June p 17, Sept p 153 Miller, Tracy B, 1967 Oct p 56, 1976 Aug p 24 Miller, W D, 1957 Dec p 110 Miller, W E, 1966 July p 107 Miller, William C, 1957 Mar p 55, 1962 Apr p 55, 1964 July p 46, Nov p 41, 45, 1967 Oct p 107 Miller, William H, 1961 Feb p 114, Sept p 223, 1963 Jan p 71, July p 123, 124, 1967 May p 48, Dec p 48, 1968 Sept p 182, 1977 July p 112 Millett, A., 1972 Oct p 39 Millican, R. C., 1958 Dec p 122, 124 Milligan, James E, 1959 Feb p 66 Millihan, C. H., 1961 Apr. p. 95 Millikan Robert A., 1949 Mar p 29-31, Dec p 14, 56, 1950 Sept p 22, 23, Oct p 32, 1951 May p 27, 30, 1952 Mar p 50, June p 50, 1953 Sept p 64, 1964 Jan p 108, 1967 Jan p 86, 87, 91-95, Nov p 26, 27, 1970 Oct p 64, 1971 July p 94 Milliken, Christine, 1973 Apr p 25 26 Milliken, Robert S. 1966 Dec p 56 Millikin Eugene D. 1950 Aug p 28 Millis Walter, 1954 Feb p 44 Millman B M, 1965 Dec p 27 Millman Peter M 1950 Sept p 52, 1951 June p 27 1954 Feb p 42 1958 July p 35 Millman Sydney 1965 May p 67 Millon Rene 1965 Sept p 58 1972 May p 83 1975 Oct p 73 Millot Jacques 1954 Nov p 56 1955 July p 54 1957 Sept p 114 Millott N 1963 July p 130 Mills B Y 1955 Mar p 41 1956 Apr p 57 Sept p 166 210 1959 Aug p 49 Dec p 97 1962 Mar p 42 1964 Jan p 36, 1968 Dec Mills Bernard J. 1971 Dec. p. 28 Mills Donald R 1965 Nov p 50, 1967 Sept P 103 Mills Dov H 1971 Dec p 40 Mills Jack 1957 Nov p 70 Mills Robert 1978 Leb p 136 Mills Robert 1 1974 July p. 55, 1976 Nov p <5 Mille Willbur D 1971 Apr p 23 Milland G R 1963 Aug p 93 94 Mil c David B 1322 July p 53 Mile Dea lask 1971 Dec p 27 1976 June p 105 108

Milne, E A, 1974 Nov p 26, 1976 Feb p 52 Milne, E Arthur, 1949 Jan p 38 Milne, John, 1949 Feb p 42, 1955 Sept p 56 Milne, Lorus J, 1952 Jan p 29, 1957 Oct p 49, 1978 Apr p 134 Milne, Margery, 1978 Apr p 134 Milne, Margery J., 1952 Jan p 29, 1957 Oct p 49 Milner, Brenda, 1965 Mar p 45, 1973 Mar p 70, 1977 June p 98 Milner, Harold W, 1953 Oct p 31, 1965 Dec p 77 Milner, Paul, 1974 Nov p 84 Milojcic, Vladimir, 1971 Oct p 67 Milsted, John, 1957 Aug p 58 Milstein, C, 1967 Oct p 86, 1970 Aug p 40, Miltiades, 1963 June p 116 Milton, Daniel, 1973 Jan p 55 Milton, John, 1955 Oct p 74, 76, 1958 June p 74, 1967 Aug p 97, 1968 Feb p 108, Aug p 92, 1977 June p 121, 125, 126, 128 Minard, David, 1956 Mar p 34 Mincham, Hans, 1961 Mar p 73 Minck, Robert W, 1964 Apr p 49 Miner, F A, 1966 July p 107 Miner, John R., 1950 Apr p 58, 59 Miner, Nancy M, 1959 Nov p 74 Mineralogical Society of America, 1948 Dec p 26 Mink, D, 1977 Aug p 57 Minkowski, Herman, 1950 Sept p 28, 1967 Jan p 107 Minkowski, Rudolph, 1949 Mar p 54, Dec p 19, 1953 Jan p 21, 1956 Sept p 205, 210, Oct p 61, 1957 July p 50, 53, 1958 Apr p 37, 1960 Aug p 70, 1963 Dec p 59, 1964 Nov p 38, 1967 Dec p 116, 1970 June p 28, 1971 July p 74, 82, Dec p 25, 1973 Dec p 43 1975 Aug p 26 1976 Dec p 89, 92 Minnesota Mining and Manufacturing Company, 1951 Dec p 40, 1973 Oct p 24 Minnich, D E., 1961 May p 137 Minnick William A, 1968 Sept p 102 Minor A H, 1954 Feb p 57 Minot, George R 1949 Dec p 14, 15, 1967 Nov p 27 Minsky A E., 1949 May p 16 Minsky Marvin L., 1966 Sept p. 112, 166, 247, 69, 1971 Dec p 63, 1975 Apr p 34 35 Minster Jean-Bernard 1976 Aug p 49 Minton R B 1974 Feb p 49, 53, 1975 Sept p 146 1976 May p 110 Minton Sherman A Jr., 1957 Jan p 114 Mintz, Beatrice 1978 Feb p 125 Mintz, Sidney W 1975 May p 66 Mirabeau see Riqueti Honore G V Mirelman David 1969 May p 97, 1977 June p 119 Mirick George S 1960 Aug p 77, 1966 July p 33 Mirsky Alfred E. 1949 Mar p 25 1950 June p 37 Sept p 57 1953 Feb p 49 57 May p 36, 1954 Oct p >> 1956 Nov p 53, 1958 Dec p 63 1962 May p 78 1975 Feb p 48 Mirsky Arthur I 1954 Nov p 49 Miscr Hugh J 1971 Nov p 48 Mises Richard von 1953 Sept p. 128 Mishell Robert 1 1973 July p 58 Mishima T. 1967 Sept. p. 234 Misher Charles W. 1970 June p. 33 Misra Prem S. 1976 Mar p. 31 Misrahy George V 1964 Dec p 64 Missiroli Albert 1952 June p 23 Missosippi State Supren e Coart, 1471 Feb

Mistry, Nariman, 1962 Aug. p 53, 1963 Mar p 68 Mitani, Michiko, 1973 Apr p 19-21 Mitarai, Genyo, 1964 Dec p 51 Mitchell, Alfred, 1977 Mar p 108 Mitchell, Andrew, 1972 Mar p 30 Mitchell, Donald E, 1975 Mar p 71, 1976 Dec p 42 Mitchell, Edgar D, 1971 Aug p 64, 67 Mitchell, Graham F, 1973 July p 58, 1974 Nov Mitchell, Herschel K, 1962 Apr p 101, 102, Mitchell, J. Murray Jr., 1961 Mar. p. 81, 1967 Aug p 21, 1970 Sept p 184, 188 Mitchell, J S, 1955 Oct p 41 Mitchell, J. W., 1949 May p. 43, 1955 June p 83, 84, 1961 Oct p 111, 113 Mitchell John, 1950 Feb p 33 Mitchell Neal, 1971 Mar p 21, 23-25 Mitchell, Peter, 1968 Feb p 37, 1975 Dec p 32, 1976 June p 44, 45, 46, 1978 Mar p 104, 113, 115, 116, 121 Mitchell R. B, 1955 May p 34 Mitchell, Ralph, 1975 Nov p 53 Mitchell, Richard L, 1968 Sept p 102 Mitchell, Robert, 1965 Sept p 164 Mitchell, Silas W, 1964 Apr p 32, 33 Mitchell, Wesley C, 1975 Jan p 18 Mitchison, J M, 1953 Aug p 56, 1957 Jan p 102, 1961 Apr p 123, 125, Sept p 110, 1974 Jan p 55, 56, 58 Mitchison, N Avrion, 1973 July p 56, 59, 1976 May p 30, 33, 34, 35 Mithridates the Great, King of Pontus, 1971 May p 20 Mitlin, Norman, 1960 Oct p 60 Mitra, Asok, 1965 Sept p 92, 93, 100 Mitra, Shashanka, 1968 Oct p 75 Mitre Corporation, 1972 Aug p 44 Mittelstadt, Horst, 1965 Nov p 85 Mittelstaedt, O., 1955 Aug p 64, 66 Mitten Annie, 1959 Feb p 82 Mittenthal, Robert, 1966 Oct p 83 Mittler, Tom E., 1963 Mar p 138 Mittner, P., 1966 Nov p 64 Mitton, Simon, 1973 Feb p 101 Mittwoch, Ursula, 1961 Nov p 72 Mivart, George J., 1956 June p. 92 Miwa, T. 1968 June p 105 Miyamoto, Eishichi, 1977 Aug p 117 Miyamoto, S. 1961 July p 74, 1962 Aug p 41, 42 43 Miyamoto, Y , 1976 Nov p 51 Mize, Johnny, 1949 Mar p 54 Mizushima, S., 1969 Oct p 33 Mizutani, Satoshi, 1970 Sept p 82, 1972 Jan p 29, 31 Mikendrick, J. G. 1956 Dec. p. 114 Mladejovsky M G, 1974 Mar p 45 Mollgaard, Kjeld 1972 Feb p 27, 29 M Naghten, Daniel, 1974 June p. 19-21 Moang, T F 1962 Aug p 36 Moberg, Lva 1974 Sept p 143 Mobil Oil Corporation, 1969 June p 113 Mobil Tyco Solar Energy Corporation 1976 Oct p 34, 41 Mobius Karl, 1969 Mar p 22 Mobles, R M 1966 Apr p 98 Mobley Ralph C. 1964 Mar p 53 Mochel Jack M. 1965 Oct p 62 Modahl Kurt B 1976 Oct p 100 Modell F B, 1956 Feb p 31-33 Modell Wilter 1969 Apr p 114 Modha M L, 1976 Apr p 119 Moe Henry 1 1966 Sept p 102 Mechius VI 1950 Jun p 18 21 23 24

50, 1958 Feb p 25, 1966 Sept p 102, 1971 Feb p 46 Metropolitan Museum of Art (NY), 1960 Sept p 173, 194 Metropolitan Vickers Electrical Company, Ltd. 1953 Nov p 70, 71 Metsik, M S, 1970 Nov p 54, 55 Metz, Charles W, 1953 Aug p 54 Metz, D H, 1972 Oct p 47 Metzger, Albert E, 1976 Oct p 75 Metzger, Wolfgang, 1961 Mar p 139, 141, 142, 1974 Apr p 91, 92 Metzner, Peter, 1975 Aug p 36 Meulen, V ter, 1974 Feb p 35 Meumann, Ernst, 1964 Nov p 117, 119, 1971 Aug p 82 Meves, Hans, 1966 Mar p 81, 82 Mexican Institute of Health and Tropical Diseases, 1965 July p 94 Mexican Ministry of Agriculture, 1976 Sept p 129, 132 Mexican Ministry of Hydraulic Resources, 1976 Sept p 140, 142, 147 Mexican National Government, 1953 July p 59, 1976 Sept p 129, 184 Mexican National Institute of Agricultural Research, 1976 Sept p 140, 144, 147 Mexican National Museum of Anthropology, 1964 July p 93, 96 Mexican Royal Artillery Band, 1963 Mar p 118 Mexico National Institute of Anthropology, 1967 June p 39 Meyer, Adolf, 1954 Mar p 40, 1957 Aug p 104 Meyer, Barbara, 1976 Jan p 76 Meyer, Basil, 1965 Oct p 38 Meyer, D L, 1957 Apr p 46 Meyer, Edith, 1953 Nov p 76 Meyer, Grant, 1970 Jan p 79 Meyer, Grant E, 1967 Dec p 32, 33 Meyer, H, 1961 Jan p 137 Meyer, Hans, 1957 Jan p 75, 76 Meyer, Harry M Jr, 1966 June p 55, July p 37, 1969 June p 54 Meyer, Horst, 1967 Aug p 95 Meyer, Jerome S, 1949 Dec p 52, 53 Meyer, Karl F, 1949 Sept p 18, 1952 Feb p 60, 1964 Jan p 81, 1966 Nov p 88, 1969 Meyer, Kurt H, 1957 Sept p 88 Meyer, L, 1960 Nov p 148 Meyer, Leo de, 1967 Feb p 80 Meyer, Leonard B, 1959 Dec p 112 Meyer, Lothar, 1963 Jan p 89, 1964 Dec p 116, 1966 Oct p 69 Meyer, Peter, 1961 Apr p 75, 1964 Feb p 71, 1969 Feb p 55, Mar p 70 Meyer, Stefan, 1950 Apr p 44 Meyerhof, Otto, 1949 June p 23, Dec p 17, 1950 Sept p 21, 64, 1953 Sept p 86, 1960 Feb p 141, 1967 Nov p 26 Meyerhoff, Howard A, 1950 Oct p 24, 1953 May p 54, 1954 Feb p 42, Aug p 38 Meyerhoff, Otto, 1965 May p 88 Meyernecks, Andrew J, 1972 Sept p 60 Meyers, Adula, 1953 Oct p 73 Meyers, V H, 1969 May p 56 Meyer-Schwickerath, D G, 1963 July p 42 Meyerson, Seymour, 1959 Sept p 83 Meynell, Elinor, 1967 Dec p 23 Meynert, Theodor, 1972 Apr p 78 Meyre, Abraham, 1954 Aug p 24 Mezger, Peter, 1972 Aug. p 60 Mezrich, Reuben S, 1969 Sept p 98 Mhlangane, 1960 Apr p 165 Michael, Charles R, 1972 Dec p 73, 1973 Jan

Michael, Daniel N , 1972 Nov p 105 Michael, Donald N , 1962 May p 47 Michael, Harris, 1966 Apr p 89 Michael Reese Cardiovascular Research Center, 1966 Aug p 55 Michael Reese Hospital, 1958 May p 99, 1963 Mar p 102 Michael, Richard, 1966 Apr p 89, 1971 Sept p 76, 1976 July p 48 Michael, William H Jr , 1968 May p 77 Michaela, Alan S, 1956 July p 52 Michaelis, Leonor, 1953 Aug p 57-59, 1959 Aug p 120, 122, 1966 Nov p 88, 1969 May p 39, 40, Aug p 88, 1970 Aug p 73 Michaelis, Paul C, 1969 Oct p 47, 1971 June Michaelis, Peter, 1950 Nov p 32-34 Michaels, Richard H, 1966 July p 31 Michaelson, A A, 1950 Sept p 28, 1976 Jan p 62 Michaelson, I C, 1977 June p 103, 104 Michajlow, W, 1949 Dec p 40 Michanowsky, George, 1976 July p 66 Michaux, Ernest, 1973 Mar p 82, 83 Michaux, Francois, 1948 June p 52 Michaux, Pierre, 1973 Mar p 82, 83, 86, 88 Michel, F Curtis, 1971 Aug p 66 Michel, Francois, 1967 Feb p 62 Michel, Maynard, 1971 June p 55 Michelangelo, 1950 Sept p 68, 1972 Sept p 95 Michelin, Andre, 1972 May p 107, 111 Michelin, Edouard, 1972 May p 107, 111 Michell, A G M, 1966 Mar p 63, 64, 66 Michelon, L C, 1954 Feb p 46 Michels, Kenneth M, 1971 June p 36 Michels, Walter C, 1958 May p 73 Michelson, A A, 1948 Aug p 36, 39, 49, 51, 1949 Mar p 54, Dec p 14, 1952 June p 50, 1953 Nov p 98, 1954 July p 46, 1955 Aug p 63-66, 1960 Mar p 84, July p 146, Oct p 164, 1963 Feb p 134, July p 42, 44, 45, 1964 Mar p 108, Nov p 107-111, 113, 114, 1967 July p 50, Nov p 26, 1968 June p 56, 58, 59, Sept p 105, 148, 74, 76-80, 82, 1972 Feb p 72, 1976 Sept p 70, 1977 Nov p 72, 1978 Feb p 131, May p 64 Michener, Charles D, 1966 Dec p 111, 1976 Mar p 101, 102 Michener, Martin, 1974 Dec p 104 Michet, D, 1977 Aug p 33 Michigan Civil Liberties Union, 1977 Dec p 87 Michigan Environmental Research Institute 1977 Oct p 92, 94 Michigan State Agricultural Commission, 1969 June p 57 Michigan State University, 1956 Apr p 60, 1957 Dec p 114, 116, 1958 July p 52 Nov p 92, 94, 1963 June p 60 1965 Oct p 57, 1966 Oct p 70, 1977 July p 96, Dec p 87, 1978 Apr p 78 Mick, Stephen S 1975 Feb p 14 Mickelsen, Olaf 1956 Nov p 114 1966 Aug p 56 Mickelwait, Audrey B 1963 July p 74 Microwave Associates Inc 1959 June p 127 129 Midas, King, 1959 July p 100 105 107 109 Middendorf W H H, 1956 July p 52 Middlebrook, Gardner, 1949 Oct p 38 Middlebush, Frederick A., 1950 Dec p 26, 1956 Aug p 49 Middlesex Hospital, 1962 Aug p 116 Middleton, John T. 1953 Jan p 32 Middleton, Lord of Birdsall 1976 Oct p 120 126

Middleton, William S, 1957 Jan p 68, 1966 Aug p 42 Midgley, Alvin, 1963 Jan p 127 Midgley, Thomas Jr, 1950 Feb p 16 Midgley, Wilfred, 1976 Oct p 126 Midwestern Universities Research Association, 1956 Apr p 60, 1958 Mar p 73, July p 50, 1961 Nov p 56, 1966 Nov p 109, 110 Mie, Gustav, 1953 Feb p 72, 74, 76, 1972 Feb p 68, 1974 July p 65, 67, 70, 1977 Apr p 124 Miescher, Friedrich, 1953 Feb p 50, 51, 53, 55 56, 1961 Sept p 74, 1968 June p 78-84, 86, 88, 1972 Dec p 84, 86 Miethke, E, 1969 Feb p 36 Migalkin, G, 1963 Aug p 97 Miggiano, Vincenzo, 1965 July p 97 Mihalyi, Elemer, 1962 Mar p 62-65 Mikhailov, V P, 1958 Sept p 89 Milankovich, Milutin, 1958 Feb p 59 Milankovitch, Milutin, 1948 Oct p 44, 1960 May p 79 Milbank Memorial Fund, 1954 Mar p 42, 1973 Julyp 17 Milburn, John G, 1963 Mar p 121, 124 126 Milch, R A, 1963 Apr p 114 Miledi, Ricardo, 1970 Apr p 92, 1977 Feb p 109, 113, 114 Miles, Catharine C, 1951 Sept p 43, 45 Miles Laboratories, 1963 Nov p 104 Miles, Vaden W, 1950 Feb p 25 Miley, George K, 1973 Sept p 72, 1975 Mar p 28, Aug p 26, 33 35, Oct p 56 Milford, Frederick J, 1973 May p 37 Mili, Gjon, 1967 Apr p 58 Milicer, Halina, 1968 Jan p 27 Milik, J T, 1973 Jan p 82 Milkey, Robert W, 1975 Apr p 111 Milkman, Roger D, 1967 Nov p 54 Mill, James, 1971 Aug p 82 Mill, James S., 1951 Oct p 15 Mill, John S, 1951 Sept p 103, 1952 Sept p 150, 1954 June p 31, Oct p 33, 1963 Sept p 56, 1965 Sept p 151, 1971 Aug p 82, 1972 Feb p 95, Sept p 164 Millar, J A, 1971 Feb p 18, 19 Millardet, Pierre, 1952 Jan p 29 Miller, Benjamin F, 1959 Oct p 58 Miller, C Philip, 1949 Aug p 33, 1955 May Miller, Carl W, 1954 Apr p 44 Miller, Carlos O, 1968 July p 77 Miller, Charles E, 1967 Dec p 69 Miller, D M, 1971 Feb p 91 Miller, David, 1959 Oct p 60 Miller, Dayton C, 1964 Nov p 114 Miller Denis, 1975 Apr p 48 Miller, Dorothy, 1974 July p 42 Miller, E A 1967 Feb p 90 Miller Edward E, 1977 Mar p 110 Miller Fletcher, 1953 Mar p 71 Miller Frank C 1967 Sept p 106 Miller Fritz, 1963 May p 68 Miller G F, 1969 Aug. p 75 Miller, G L 1955 July p 77 78 Miller Gaylord R 1972 Apr p 48 Miller, George A 1964 June p 99 1969 Jan p 84, 1971 Aug p 82 1972 July p 87, Sept p 35, 1974 Dec p 31 Miller George Jr 1973 Oct p 33 Miller, Gerrit 1954 Jan p 38 Miller, Henry 1974 July p 60 Miller J C P 1952 Feb p 40 Miller, Jack R 1967 Sept p 262 Miller, Jacques F A P 1962 Apr p 82, Nov p 54, 55, 1964 July p 66 65 1973 July p 58 1974 Nov p 60

Morgan, Russell H, 1959 May p 68, 1962 July p 73, 1963 May p 75 Morgan, Thomas H, 1949 May p 17, Sept p 16, Dec p 13, 14, 1950 Jan p 32, Sept p 56, 58, Nov p 30, 1951 Sept p 43, 1954 June p 44, July p 42, 1956 Oct p 80, 81, 1958 Oct p 82, 1959 July p 128, 1960 Jan p 128, May p 124, 1961 Nov p 68, 1967 Nov p 27, 1968 June p 88, 1969 Dec p 48, 1977 July p 68, 74 Morgan, W Jason, 1968 Dec p 63, 1969 Sept p 130, 1970 Sept p 91, 1972 May p 63, Nov p 51, 1973 July p 48, 1976 Aug p 49 Morgan, W W, 1952 July p. 49, 50, 1959 Dec p 93-99, 1961 Jan p 108, 1963 Jan p 76, 1969 Jan p 29 Morgan, Walter, 1977 June p 111 Morgenstern, Larry L, 1974 Sept p 55 Morgenstern, Oskar, 1948 Nov p 15, 1955 Feb p 78, 80, 1957 Apr p 68, 1962 Dec p 108, 118 Morgenthau, Henry Jr, 1975 Jan p 18 Morguleff, N, 1967 Nov p 60 Monarty, 1949 May p 24 Monrard, R., 1951 Mar p 46 Monn, A, 1951 Feb p 55, 1956 May p 109 Monn, A J, 1975 July p 50 Monn, Bernard, 1966 May p 120, 1976 Apr p 79 Monn, F J, 1962 June p 66 Morin, James G, 1977 Mar p 106, 110 Monn, Richard A , 1967 May p 37 Monson, Roberts, 1948 Oct p 27 Monson, Samuel E, 1977 Nov p 146 Monta, Hiromichi, 1961 May p 144 Monta, Richard Y, 1957 Nov p 54 Moriyama, Iwao M., 1960 July p. 81 Morie, K. D. F., 1952 Jan. p. 36 Morlet, A., 1975 Feb p 41 Morley, Edward W , 1948 Aug p 51, 49, 1949 Mar p 54, 1950 Sept p 28, Dec p 31, 1953 Nov p 98, 1954 July p 46, 1960 Mar p 84, 1963 Feb p 134, July p 42, 1964 Mar p 108, Nov p 107, 111, 113, 114, 1967 July p 50, 1977 Nov p 72, 1978 Feb p 131, May p 64 Morley, R. L., 1976 Aug. p. 84 Morley, Sylvanus G., 1972 May p. 91 Morokhov I D, 1968 July p 50 Moroni, Antonio, 1969 Aug p 30 34 Morot, Γ S, 1950 Oct p 40 Morowitz, Harold J. 1967 Feb p 43 Moroz, V I 1965 Aug. p 28, 29 1975 Sept p 74,77 Morozumi Henry 1962 Sept p 76 Morrell Joan 1, 1976 July p 50 Morrelli Howard F, 1974 Nov p 18 Morris Byron 1975 June p 92, 93 Morris Carl 1977 May p 119 Morris, D 1954 Nov p 42 Morris David 1964 July p 46, 1965 June p 51-Morris G A 1971 Dec p 28 Morris, George L 1952 May p 42 Morns H N 1953 May p 60 Morris Henry 1971 Jan p 46 Morris Henry M. 1976 Apr. p. 37 Morris John Mct 1966 June p 56 Morris Joseph C 1950 Dec p 26, 1953 May p 51 Morns Robert 1971 May p 65 66 Morris Samuel B 1955 May p 50 1956 Mar p 43 1959 Nov p 174 Morris William Lord Suffield 1963 Sept p 58 1971 Mir p 88 Merris Gossfill Jane, 1962 May p. 134-138 Member David 1975 Let p 25

Morrison, Emily, 1953 Aug p 23, 1957 Dec p 98 Morrison, John A, 1965 Mar p 39-41, 1973 May p 30, 34 Morrison, L R., 1949 July p 18 Morrison, Philip, 1949 Apr p 24, July p 43, 1953 Aug p 23, 1956 Aug p 48, 1957 Apr p 45, July p 86, Oct p 56, Dec p 59, 98, 1959 Mar p 76, 1960 Jan p 76, Apr p 63, 1961 Mar p 102, 1963 Mar p 48, 1964 Apr p 68, June p 40, 1966 Apr p 94, July p 74, Aug p 36, Oct p 43, 1967 Jan p 100, 1969 Jan p 48, 1973 Feb p 104, 1975 May p 83, Dec p 65, 1976 Feb p 54B, Oct p 78, Dec p 94, 1977 Dec p 84 Morrow, John F, 1975 July p 25, 31, 33 Morrow, R H Jr, 1973 Oct p 29 Morrow, Robert S, 1969 Dec p 19 Morrow, W R., 1948 Oct p 51 Morrow, Walter E Jr, 1961 Oct p 91 Morse, Dean, 1976 Dec p 29 Morse, Harold M, 1950 Dec p 26 Morse, M Laurence, 1976 Dec p. 111 Morse, Philip M, 1948 June p 27, Oct p 24, 1949 Feb p 17, 1971 Nov p 48 Morse, Ralph, 1958 Sept p 59 Morse, Robert W, 1963 July p 120 Morse, Roger A, 1976 Jan p 63 Morse, Samuel F B, 1949 Dec p. 56, 1954 July p 76, 77, 1957 Nov p 47, 1960 Sept p 96, 1972 Sept p 117, 99, 1977 July p 130 Morse, Stephen I, 1967 Dec p 26 Mortensen, C F, 1975 May p 20 Mortensen, Otto A, 1964 Mar p 58 Mortenson, Leonard E, 1962 Oct. p 60, 1974 Oct p 69, 1977 Mar p 73 Morton, A Q, 1964 Jan p 56 Morton, Avery, 1957 Sept p 101 Morton, Donald C, 1964 June p 38, 41, 42, 1969 June p 101, 1970 Dec p 26, 27, 1971 Dec p 25, 1972 Feb p 71, Apr p 57, 1974 May p 113, 1977 May p 73 Morton, G A, 1956 Mar p 90 Morton, H B, 1972 May p 37 Morton, H S 1964 Jan p 116 Morton, Harry E., 1959 Mar p 65 Morton, Henry, 1959 Nov p 108 Morton, R. A., 1967 June p. 72 Morton, Richard 1949 Oct p 35 Morton, Rogers C B, 1975 Apr p 53 Morton Salt Company, 1962 Aug p 90, 98, 1963 July p 96 Morton, William T G 1957 Jan p 70, 72, 1973 Sept p 130 Moruzzi Gianni 1972 Mar p 88 Moruzzi Giuseppe 1957 May p 55 1962 June p 148, 1967 Feb p 66-68 70, 1970 Mar Mosander Karl G 1951 Nov p 29, 30 Mosauer Walter, 1970 June p 82, 93 Mosbach Klaus 1971 Mar p 26 Moscott Statutino 1975 Feb p 80 Moscona, Aron V 1959 Dec p 162, 1961 May p 121 Sept p 142, 1962 May p 146, 1969 Feb p 100 1970 May p 81, 1972 June p 28 1977 June p 113 Mose Eric 1955 May p 91, 1958 Sept p 63 Moselev Francis L 1964 Mar p 34 Moselev H G J, 1950 Apr p 38; 1956 Nov p 102 1965 July p 62 Moscley H N 1953 May p 94 Moscley W H 1971 Aug. p 20 Mosely David 1973 Mar p 87 Moser John C 1967 Nov p 113, 115 Moses 1948 June p 45, 1949 Jan p 52 1950 Jan p 54, 1957 Mar p 37, 1965 July p 92, 1973 Jan p 55, Apr p 91, 1977 Jan p 104

Moses, J B, 1953 Jan p 45 Moses, Montrose J, 1958 June p 41, 42 Moses, Paul J, 1965 Mar p 82 Moses, Robert, 1965 Sept p 199 Mosher, Harry S, 1967 Aug p 62, 67 Moskowitz, Meyer, 1956 Nov. p 79 Moskowitz, Michael, 1975 July p 77 Mosna, E., 1952 Oct p 22 Mosquin, Theodore, 1973 Apr p 97 Moss, Calvin, 1972 Oct p 104 Moss, Dieter, 1974 Aug p 35 Moss, John E, 1958 July p 46, 1965 May p 50, 1967 Jan p 28 Moss, M L, 1973 Aug p 95 Moss, Ned S, 1977 Feb p 78, 84 Moss, Peter D, 1967 Feb p 58 Moss, R. W, 1969 Dec p 92 Moss, Simon C, 1977 May p 45 Mossbauer, Rudolf L, 1960 Jan p 74, Apr p 73, 75, 76, 78, May p 89, 1961 Mar p 98, Dec p 72, 73, 1963 Feb p 142, Oct p 40, 1965 Jan p 107, 1967 Nov p 25, 27, 1971 Oct p 86, 1973 Dec p 69, 85 Mossop, Stanley, 1961 Jan p 125 Mostek Corporation, 1977 Sept p 131 Mosteller, Frederick, 1955 Feb p 80, Aug. p 69 Mosteller, G G, 1972 Dec p 59 Mostler, Georg, 1957 Oct p 52 Mote, C D Jr, 1976 May p 56 Mote, John R, 1950 Mar p 33 Motley, Hurley L, 1961 Oct p 54 Motley, R W, 1967 July p 83 Motomura, I. 1959 July p 127 Motorola Aerial Remote Sensing, Inc., 1977 Oct p 92 Motorola Semiconductor Products, Incorporated, 1965 Nov p 61, 68, 1966 Sept p 85, 1970 Feb p 24, 1977 Sept p 65, Oct p 92 Mott, Nevill, Sir, 1952 Nov p 32, 33, 1966 July p 69, 1967 Sept p. 196, 76, 98, 1968 Jan p 79, 1969 Nov p 33, 1977 May p 39, 41, Dec p 82 Mottelson, Ben, 1959 Jan p 82, 1964 Mar p 86, 1975 Dec p 48 Motulsky, Arno G, 1971 Nov p 38, 40 Moiz, Gottlieb, 1961 Mar p 129 Motz, Lloyd, 1951 May p 33, June p 32 Moudy, J M., 1976 Apr p 35, 39 Mougey, H C., 1975 July p 60 Mouhot, Henri, 1964 Nov p 97 Moulton, F R, 1948 May p 44, 1952 Oct p 55 Moulton, James M., 1962 June p. 134 Mount Holyoke College, 1963 Nov p 118 Mount Palomar Observatory, 1953 Feb p 17, Mar p 35, June p 56, 1954 July p 31, 34, 35 Aug p 38, 1956 Jan p 48, 1957 Mar p 53, 1961 June p 113-115, 1962 Apr p 58 60, 1963 Apr p 60, 67, June p 98 106, Dec p 54, 56-58, 1964 Jan p 40, May p 78, July p 46, Nov p 38, 41, 45, 1966 Aug p 37, Nov p 54, Dec p 52, 1970 June p 26, July p 27, 1971 July p 74, 1976 Dec p 89, 90, 1977 Oct p 43, 1978 Jan p 82, Apr p 110 Mount Sinai Hospital 1958 June p 80, 1964 Mar p 39 Mount Stromlo Observatory, 1957 Dec. p. 40, 1964 Jan p 33-36, 39, 41 Mount Wilson Observatory, 1945 Nov. p. 27 35, 1950 Dec p 40, 1952 June p 46, 50, 52, 1953 Feb p 72, May p 69 73, 1954 July p 32, 33, 35, Aug p 40 1956 Jan p 48, 1957 Mar p 55, 1960 Feb p 55 57 62, Apr p 56 1961 Junep 112, 1962 Feb p 56, Apr p >> (0, 1907)pr p (0 67, June p 97, 42

Moerman, Michael, 1971 May p 46 Moeser, Justus, 1965 Sept p 64 Moffet, Alan T, 1966 Feb p 51, Dec p 48, 1974 May p 110, 113 Moffet, Allen T, 1963 Dec p 56, 1966 June p 32 Moffett, James W, 1953 May p 81, 1955 Dec p 35, 1966 Feb p 82, Nov p 99 Moffitt, William, 1957 Sept p 177, 178 Mohamed, Zema ben Said, 1955 July p 56 Mohl, Anna von, 1958 Mar p 98 Mohler, Stanley R, 1969 Aug p Mohorovicie, Andrija, 1955 Sept p 59, 1962 July p 53, 1973 Mar p 24 Mohr, Charles, 1955 May p 106 Mohr, Jenka, 1964 Jan p 32 Mohr, Otto, 1952 July p 60 Mohs, Friedrich, 1974 Aug p 62 Moilliet, Anthony, 1973 Feb p 72 Moir, Reid, 1948 July p 18 Moises-Chediak, 1967 Jan p 115 Moissan, Henri, 1955 Nov p 43, 44, 1967 Nov p 26, 1975 Nov p 104 Moivre, Abraham de, 1978 June p 120 Mo-jo, Kuo, 1966 Nov p 39 Mole, R H, 1959 Sept p 130 Moliere, see Poquelin, Jean B Molisch, Hans, 1951 Nov p 69 Molitor, Hans, 1949 Aug p 34 Moll, Sheldon H, 1963 Nov p 129 Molla, A C, 1964 Mar p 70 Mollard, F R, 1974 Dec p 92 Moller, Fritz, 1970 Sept p 183 Moller, Goran L, 1972 June p 31, 1976 May p 34, 35 Mollison, P L, 1956 June p 108 Molnar, Charles E, 1973 Apr p 44 Molnar, Peter, 1972 May p 63, 1975 Nov p 94, 96, 1977 Apr p 30 Moloney, John B, 1964 May p 91 Molotov, Vyacheslav M, 1948 Sept p 50, 51, 1949 Nov p 26, 1954 Aug p 38 Molyneux, Samuel, 1964 Mar p 100-104 Molyneux, William, 1950 Aug p 32 Mommaerts, W F H M, 1955 Mar p 53 Mommsen, Theodor, 1952 Apr p 84 Monaco, Anthony P, 1965 Dec p 40 Monash University, 1963 Aug p 45 Monboddo, Lord, 1959 May p 61 Moncada, S, 1971 Aug p 45 Monckeberg, Fernando, 1971 Oct p 20 Monconys, Balthasar de, 1970 Oct p 114 Moncrieff, R W, 1952 Mar p 28, 1964 Feb p 45, 1971 Aug p 46 Mond Laboratory, 1958 June p 35 Mond, Ludwig, 1959 Oct p 72, 1971 Dec p 49, 1972 Oct p 26, 35 Mondrian, Piet, 1977 Dec p 111 Money, John W, 1972 July p 82 Mongar, Jack L, 1963 Nov p 108 Monge, Carlos, 1955 Dec p 60, 62, 66, 1970 Feb p 53 Monge, Gaspard, 1949 Jan p 45, 1955 Jan p 83, 1964 Sept p 65 Mongke, Khan, 1963 Aug p 55, 59 Moniz, Antôbnio de Egas, 1978 Mar p 63 Moniz, Egas, 1948 Oct p 37, 1950 Feb p 44, 1955 Feb p 70, 1962 Aug p 71, 1967 Nov p 27 Monjan, Andrew A , 1973 Jan p 22, 25 Monnier, Alexander, 1956 Mar p 52 Monnier, Marcel, 1974 Jan p 51, 1976 Aug p 25 Monod, Jacques, 1953 Sept p 114, 1961 June p 96, July p 66, 1962 Feb p 47, 1963 Mar p 83, 1964 Nov p 76, 1965 Apr p 36-39, 42, 44, 45, Dec p 38, 1967 June p 52, Nov

p 28, 30, 1968 Dec p 48, 1969 Apr p 35. May p 40, Oct p 28, 1970 June p 36, 38, 39, 42, 1972 Feb p 36, 1973 Oct p 55, 1974 June p 49, 1976 Jan p 64, Feb p 33, 35, Dec p 103 Monroe, George, 1962 June p 71 Monroy, Alberto, 1951 Mar p 45, 1967 Nov p 70 Monsanto Chemical Company, 1952 Jan p 34, 1953 May p 32, June p 43, July p 40, Aug p 36, 1966 July p 97, 1967 Apr p 50, 1968 Aug p 44, Nov p 56, 1976 Oct p 60 Monsiau, Nicholas, 1972 Feb p 98 Montagu, Ashley, 1951 Feb p 32 Montagu, Edward W, 1976 Jan p 112 Montagu, John, Earl of Sandwich, 1974 Sept p 76 Montaigne, Michel de, 1968 Dec p 105 Montalto, Cardinal, 1951 June p 58 Montalvo, Joseph H, 1971 Mar p 31 Monte, Guidobaldo del, 1976 Apr p 106, 107, 112, 113 Montecatini, 1961 Aug p 41 Montefiore Hospital and Medical Center, 1978 Montefuscolo, Goffredo di, 1963 Dec p 116 Montejan, Maneschal de, 1956 Jan p 91 Montelius, Oskar, 1971 Oct p 64 Montero, Vicente M, 1974 May p 50 Montes, Leopoldo F, 1969 Jan p 111, 115 Montesano, Roberto, 1978 May p 144 Monteverdi, Claudio, 1967 Dec p 98 Montezuma II, 1966 Apr p 73 Montgolfier, Jacques E, 1950 Dec p 30, 1964 July p 98, 1970 Aug p 100

Montgolfier, Joseph M, 1970 Aug p 100

Montgomery, David B, 1965 Apr p 67, 74, 76, 78, 1972 July p 73, 95 Montgomery, G Franklin, 1952 June p 38, 1977 Dec p 47 Montgomery, Hugh, 1978 Mar p 131 Montgomery, John, 1961 June p 90 Montgomery, Raymond, 1961 Apr p 108 Montgomery, W Linn, 1977 Mar p 108, 112 Montie, Thomas C, 1969 Mar p 93 Montreal Neurological Institute, 1960 Sept p 74, 1961 Oct p 135, 1965 Mar p 45 Montroll, Elliott W, 1963 Dec p 35 Montzka, Thomas, 1966 Nov p 135 Moody, John D, 1978 Mar p 44 Moody, Lewis F, 1967 Jan p 66 Moody, Michael, 1965 Feb p 72, 1966 Dec p 35 Moog, Florence, 1948 Oct p 25, 1973 Apr Mook, H A, 1967 Sept p 224 Moon, Philip B, 1960 Apr p 76, 1965 May p 72, 74, 1968 Oct p 45 Moon, Virgil H, 1949 Sept p 26 Mooney, Harold A, 1965 Dec p 84, 1972 May p 99 Moorbath, Stephen, 1977 Mar p 92, 98-101 Moore, A D, 1972 Mar p 40 Moore, C Bradley, 1965 Jan p 30, 1977 Feb p 95 Moore, Carl V, 1949 Feb p 36 Moore, Carleton B, 1971 May p 42, 1972 June p 43, Oct p 83, 84 Moore, Charlotte E., 1951 Sept p 54 Moore, Dan H, 1949 May p 28, 1954 Apr p 52, 1957 Feb p 40, 43 Moore, David G, 1955 Apr p 50 Moore, E G, 1951 July p 29 Moore, Edward F. 1964 Sept p 150, 1977 Oct p 109, 118 Moore, Francis D 1970 Mar p 60

Moore, Franklin, 1959 Mar p 62 Moore, G W, 1954 Oct p 36 Moore, Gordon E., 1977 Sept p 65, 67 Moore, Henry, 1958 Sept p 64, 65, 1973 May p 27 Moore, Henry J II, 1978 Mar p 89 Moore, Hilary, 1951 Aug p 27 Moore, J H, 1952 June p 28, 1956 Feb p 56 Moore, John N, 1977 Dec p 87 Moore, John P, 1955 Apr p 54 Moore, John W, 1967 Aug p 69 Moore, Joseph E, 1952 Apr p 55, 56 Moore, Lowi D Jr, 1957 Nov p 72 Moore, Malcolm A S, 1974 Nov p 64 Moore, Paul, 1958 May p 69 Moore, Peter B, 1976 July p 65, Oct p 44 Moore, Richard K, 1967 Aug p 40 Moore, Robert A, 1962 Jan p Moore, Robert B, 1978 June p 66 Moore, Roger C, 1957 June p 72 Moore, Roland C, 1957 Aug p 58 Moore, Stanford, 1950 June p 35, 1955 May p 37, July p 76, 1961 Jan p 79, Feb p 81, Apr p 58, Oct p 58, 67, Dec p 96, 1964 Dec p 71, 1967 Mar p 49, 1972 Dec p 41, 1975 Apr p 47 Moore, Thomas, 1966 Oct p 79, 81, 1972 Apr p 56 Moore, W H, 1953 May p 43 Moorehead, Warren K, 1975 Aug p 98 Moorer, Thomas H, 1972 June p 27, 1973 Aug p 12 Moorfields Eye Hospital, 1962 Mar p 110 Moorhead, Paul S, 1968 Mar p 33, 35 Moorhouse, F W, 1965 May p 79 Moorsteen, Richard, 1968 Dec p 19 Moos, Carl, 1974 Feb p 70 Mooseker, Mark S. 1978 May p 145 Morales, George, 1974 Dec p 23 Moran, James M Jr, 1968 Dec p 42 Moran, Louis J, 1963 Mar p 102 Morand, J F C, 1974 Aug p 97 Morandi, A J, 1971 June p 37 Morasso, Piero, 1974 Oct p 100 Moray, Neville, 1962 Apr p 151 More, Henry, 1977 June p 122, 123, 125, 126 More, Louis T, 1954 Dec p 98, 1955 Dec p 73 More, Thomas, Sir, 1948 June p 18, 1972 Nov p 54 Moreau, Jacques, 1977 Oct p 132, 139 Morehead, Frederick F Jr, 1971 July p 32 Morehead, James T, 1949 Jan p 17 Morehead, John M., 1955 Nov p 44 Moreland, Edward L, 1950 Dec p 26 Moreland, W B, 1962 Sept p 91, 94 Morell Anatol G, 1968 May p 103, 1974 May p 85 Morelos, Father, 1966 Oct p 25 Moresco, R L, 1972 July p 51 Morey, George W, 1961 Jan p 101 92 1976 Aug p 79 Morgan, Councilman, 1954 Apr p 52 Dec p 64 70, 1957 Feb p 40 43, 1961 Sept p 61, 1963 Apr p 118 Morgan, George W. 1970 Jan p 116 Morgan, Herbert R. 1972 Jan p 28 30 Morgan, Isabel, 1949 July p 18 Morgan J P, 1959 Nov p 100 1963 Mar p 129 Morgan, James, 1967 Sept p 188 Morgan, L O, 1950 Apr p 47 Morgan, Lewis H, 1949 Jan p 24 1956 May p 70, 71, 1959 June p 154 155 Morgan, Lillian V. 1960 May p 124 Morgan, Millett G. 1956 Jan p 37 Morgan, Philip D 1975 Aug p 59

Muyderman, E. A., 1966 Mar p 60 Machlin, V I, 1975 May p 23 Micology Society of America, 1948 May p 33 Merhof, O, 1949 Sept p 14 lisers, Charles A, 1963 Sept p 140, 142 Mers, George S., 1963 July p 102 Mers, Henry R., 1972 Nov p 16 Myers, J E., 1951 Dec p 38, 1953 Oct p 32, Mers, R. J., 1956 Nov p 128, 130 llyers, Ronald E, 1964 Jan p 43, 1967 Aug p 24 Mjers, W D, 1969 Apr p 63 Unter, Herman, 1963 Mar p 121-126, 128, Myrdal, Alva, 1974 July p 46, Oct p 21 Myrdal, Gunnar, 1948 July p 9, 1954 Sept. p 70, 1956 Dec p 39, 1963 Sept p 225, 1965 Aug. p 18, 19, 1968 Nov p 27, 1974 Sept p 37, Dec p 60 Myres, John, 1954 May p 73 Mynanthopoulos, Nunos C, 1971 Feb p 46 Mynck, Robert M, 1966 June p 66

Nabarro, Frank R. N., 1969 Mar p 33, 1977 Dec p 135 Nabauer, M., 1971 Mar p 80 Nabaver, M., 1965 Oct p 60 Nabrit, Samuel M., 1956 Aug p 49 Nachmansohn, David, 1958 Dec p 88, 1959 Nov p 81, 83, 84, 1961 Feb p 90 Nachshon, I, 1975 Oct p 104 Nadel, Lynn, 1977 June p 89, 92, 93, 98 hadler, Ronald D, 1976 July p 55 Naegele, Robert F, 1973 Oct p 28 Naeser, C W, 1976 Dec p 119 Naeye, Richard L. 1966 July p 36 Nale John E. 1959 June p 78, 1962 May haltolin, Frederick, 1976 July p 51, 56 Nagai, Takashi, 1951 June p 31 Nagao, Makoto, 1973 Nov p 78 Nagaoka, Hantaro, 1956 Nov p 94, 96, 104 Nagashima, Catherine, 1966 Oct p 46 Nagata, Naokazu, 1970 Oct p 49 Vagata, Toshuo, 1963 July p 69, 1967 Feb Vagel, Emest, 1958 Dec p 112, 1962 Apr P 94, 1967 Dec p 106, 1971 Mar p 56, Aug P 93, 1973 May p 82, 1975 May p 51 Nagel, Stuart, 1965 Nov p 27 Sagel, Wilibald A , 1963 July p 124 Vageli, Carl von, 1956 Oct p 79, 1968 July Vagingion, Jack, 1963 Jan p 52, 55, 56 Vagle David, 1975 Apr p 56 \agle, John 1966 Dec p 122 Jacoba City University, 1960 Feb p 109 1965, Bartholomew S., 1963 Mar p 45, 47-49, 1965 Jan p 52, 1972 Oct p 85, 1977 Mar p 100 138), George, 1971 Apr p 56 1-6 Lois A , 1977 Mar p 100 14hm Milton C. 1949 Nov p 48 hm, Werner, 1974 May p 117 Sabirtas Andre J. 1973 Oct p 33 1-1 lusinia Mch., 1964 Jan p 32 14 toh 1 maka, 1974 Oct p 52 | -1 at Aut 1952 Oct p 63 1242 mm & warosh, 1969 Feb p 105

Lai Sobosuki, 1970 Sept. p. 154

National March 194 July p 28

Akrida & 1967 Nov p 54

Nakano, T, 1967 Aug p 32, 36 Nakas, Muhamed, 1970 May p 81 Nakashima, Edwin N, 1969 Dec p 20 Nakaya, Ukichiro, 1971 Apr p 103 Nakazato, Hiroshi, 1975 May p 25 Nalbandian, Robert M, 1975 Apr p 47 Nalco Chemical Company, 1967 Apr p 50 Nalın, David, 1971 Aug p 18 Nambu, Yoichiro, 1963 Jan p 45, 1971 July p 100, 1975 Feb p 63, 64, June p 60, 62, 1976 July p 60, Nov p 48, 70 Namias, Jerome, 1953 Nov p 31, 1955 Aug Nampeyo, 1957 June p 136 Nangeroni, A. L., 1965 May p. 21 Nansen, Fndyof, 1954 Dec p 44, 1961 May Napier, John, 1949 Apr p 31, 1976 Apr p 104, 1977 Nov p 151 Napoleon Bonaparte, see Bonaparte, Napoleon Napoleon III, 1967 July p 103, 1970 Aug p 92, 1971 May p 83 Napton, Lewis K., 1975 Jan p 102, 103 Naraghi, Ehsan, 1966 July p 49 Narahashi, Toshio, 1967 Aug p 69 Narang, H K, 1974 Feb p 36 Narang, Saran A, 1977 Jan p 47 Nardi, George L, 1956 July p 50 Nares, George S, 1953 May p 88 Narm, F, 1965 Nov p 50 Narlikar, J V, 1966 Dec p 51, 1974 Oct p 56, 1975 Dec p 68, 1976 Feb p 45 Narses, 1963 Dec p 116 NASA, see National Aeronautics and Space Administration (NASA) Nase, Siglinda, 1976 May p 34 Nash, Ogden, 1967 Jan p 98 Nashimoto, H., 1969 Oct p 35 Nasmyth, Patrick W, 1973 Feb p 71 Nasr, Jemdet, 1957 July p 116 Nasr ed-din, 1969 Nov p 87-89, 91 Nassau, Jason J , 1950 Feb p 37, 1952 July p 50, 56, 1963 May p 75 Nasse, Christian F, 1965 Aug p 88 Nasser, Gamal A, 1963 Sept p 147 Nassım, J R., 1963 Nov p 102 Nasu, N., 1949 Feb p 42 Natah, P. G., 1972 June p. 35 Nath, Pran, 1978 Feb p 138 Nathan, M., 1963 July p. 38 Nathans, Daniel 1964 Oct p 52 Nathanson, James A. 1977 Aug p 108 Nathanson Neal 1973 Jan p 22 25 Nathenson Stanley 1972 June p 34, 1977 Oct p 99, 103 National Academy of Engineering, 1965 Feb p 50, 1970 Feb p 13, 16, 1972 Sept p 143, 1974 Aug p 48 National Academy of Sciences 1948 July p 30, Oct p 25, 1949 Mar p 27, June p 28 July p 26. Nov p 22, 1950 Apr p 30, June p 26 29. Sept p 46 1951 June p 32, 1953 May p 53 June p 44 1954 Jan p 38 Apr p 45, 1955 June p 47, Dec p 33, 54, 1956 Jan p 45 July p 46, Sept p 110, Nov p 41 44 Dec p 56 1957 Mar p 68, Aug. p 56 1958 Mar p 58 Apr p 50 Sept p 171, 84, Dec p 56, 1959 Jan p 43, Mar p 44, Apr p 63, May p 68, June p 78, 1961 May p 75, Oct p 81, Nov p 79, 1963 Sept p 118, 1964 May p 58, July p 46, 1965 Jan p 48, Feb p 50 Mar p 54 July p 20 46, 1966 Mar p 20-58 Apr p 48, May p 22, Aug p 42 1967 Aug p 38 1965 Nov p 55, 1969 Oct p 46 1970 Feb p 13, 1972 Mar p 40 1974 Apr p 49. Yug p 48, Nov p 50, 1975 June

National Bureau of Standards p 15, July p 32, Dec p 27, 1976 Aug. p 42, Dec p 41, 1977 Jan p 27, June p 21, July p 22, 56, Sept p 96, Oct p 34, 1978 Feb p 76, Apr p 51 National Aeronautics and Space Administration Ames Research Center, 1953 Oct p 41, 1958 Jan p 36, 1960 Oct p 129, 135, 1964 Feb p 50-52, 56, 1977 Mar p 39, Dec p 84 National Aeronautics and Space Administration George C Marshall Space Flight Center, 1964 Feb p 52, 57 National Aeronautics and Space Administration Goddard Space Flight Center, 1963 May p 89, 94, Aug. p 29, 1964 Feb p 50, 52, 54, 1965 Mar p 61, 63, 66, 1966 Apr p 43, May p 63, Oct p 44, 1970 Mar p 41, 44, 1971 Feb p 31, Dec p 25, 29, 1976 Oct p 70, 75, 78 National Aeronautics and Space Administration Langley Research Center, 1978 Mar p 87 National Aeronautics and Space Administration (NASA), 1959 Jan p 62, Mar p 60, Apr p 62, Sept p 102, 1960 Apr p 60, May p 62, Aug p 41, 42, 44, 46, 47, 1961 July p 80, Sept p 85, Oct p 94, 98, May p 76, 1962 Jan p 36, Feb p 56, 66, Apr p 75, May p 55, June p 78, Aug. p 97, 98, 1963 Feb p 65, May p 87, 91, 94, June p 57, July p 70, 74, 75, 84, Sept p 84, Oct p 76, Dec p 65, 1964 Mar p 65, June p 25-30, 32, 34, Oct p 29, 1965 July p 22, Nov p 44, 46, 1966 Jan p 54, Mar p 58, Apr p 48, 56, Sept p 238, Oct p 43, Nov p 72, 1967 Nov p 37, 41, Dec p 50, 1968 Jan p 68, Feb p 108, 115, 116, May p 59, 60, 71, 75-77, Nov p 92, 1969 Jan p 52, 53, 62, June p 96, 101, 1970 Jan p 49, Feb p 31, Mar p 44, 59, Apr p 104, 45, May p 27, 54, Sept p 54, 161, 1971 May p 22, 30, Aug p 63, 66, 68, 70, 1973 Apr p 46, July p 40, Oct p 72, 75, 77, 78, Nov p 24, 1974 Feb p 42, 44, May p 59, Oct p 22, Dec p 42, 1975 May p 86. Sept p 110, 131, 143, 29, 63, 64, 1976 Apr p 54, Nov p 111, 64, 1977 Feb p 35, 36, 58, Apr p 22, July p 37, 39, Oct p 51, 53, 55, Nov p 59, Dec p 84, 1978 Feb p 69, May p 64,72 Laws, 1973 Mar p 45 National Association of Biology Teachers, 1972 Aug p 44 National Association of Manufacturers, 1970 Mar p 35

National Association for the Repeal of Abortion

National Bank of Mexico, 1976 Sept. p. 136 National Board of Medical Examiners, 1975

Feb p 16

National Bureau of Standards, 1948 Aug p 52, 49, Dec p 27, 1949 Feb p 28, 1950 Oct p 28, Dec p 16, 1951 June p 27, 1952 Feb p 58, 59, Mar p 34, 1953 Mar p 84-86, Apr p 37, May p 53, June p 38, 44, 52 Sept p 53, 76, Oct. p 52, Nov p 51, Dec p 50, 56, 1954 Jan p 38, Mar p 29, July p 40, Sept p 74, 1955 Mar p 38, Aug p 29, 32, 33, Sept p 134, 136, 69, 1956 July p 48, Oct p 56, 1957 Jan p 50 51, Feb p 73, 75, Mar p 91, 92, Aug. p 62, 1958 Sept p 80, 1959 Jan p 62, 1960 Oct p 78, 1961 Jan p 88, 1962 Feb p 81, Sept p 77, 1964 Apr p 82, July p 35, Oct p 70, 1965 Mar p 99, June p 101, Not p 59, 1966 Feb p 43, July p 107 74, Oct p 70, 1968 June p 52 62 Nov p 60, 1969 Sept p 80, 1970 Oct p 52, 65, Nov p 69, 70, 1971 Mar p 20 21 23, Sept p 76, Not p 26, 1972 May p 49, 1973 Sept p 69, 1975 Aug p 47, Oct p 54, 1976 Feb p 40 83 Mar p 60 1, 1977 Feb p 50

106, Oct p 65, Dec p 54, 56-58, 1964 Jan p 40, May p 78, June p 38, July p 46, Aug p 14, Nov p 38, 41, 45, 1966 Aug p 37, Nov p 54, 58, 60, 1970 June p 28, 1971 July p 77 Mountcastle, Vernon, 1958 Sept p 141, 1971 May p 92 Mouschovias, T Ch, 1977 June p 78 Mouton, Gabriel, 1970 July p 18 Movius, Hallam, 1948 July p 19, 1949 May p 48 Mowbot, Inc, 1969 Apr p 52 Mower, George D, 1976 Nov p 93 Mower, Howard F, 1974 Oct p 69 Mowrer, O H, 1950 Mar p 39 Moxon, James, 1964 Jan p 104 Moyer, B, 1956 June p 41 Moyer, Carl A, 1950 Dec p 29 Moyle, Jennifer M, 1978 Mar p 104, 116, 121 Moynihan, Daniel P, 1967 Apr p 25 Moynihan, Martin H, 1954 Nov p 42, 1960 Dec p 118, 1972 Sept p 56 Moyroud, Louis, 1949 Nov p 29 Mozart, Wolfgang A, 1948 July p 38, 1950 Dec p 22, 1951 Sept p 45, 1954 Apr p 65, 1956 Feb p 86, 1959 Sept p 158, Dec p 111, 112, 120, 1967 Dec p 103, 1973 May p 29, July p 31, Aug p 78, 1974 Nov p 78, Mozley, Robert F, 1967 Oct p 43 Morch, E T, 1960 Sept p 208 Mrosovsky, N, 1971 Apr p 72 Mudd, Stuart, 1953 Aug p 53, 1954 June p 74, 1959 May p 78, 1961 Mar p 66 Muelle, Jorge C, 1954 Aug p 29, 1955 Mar Mueller, George G, 1963 Mar p 45 Mueller, Gerald C, 1975 Feb p 49, June p 26 Mueller, John E, 1978 JJune p 48 Mueller, Paul, 1948 Dec p 26 Mueller, Werner J, 1970 Mar p 95 Muetterties, E. L., 1966 July p. 107 Muffly, Gary, 1961 June p 156 Mugge, Otto, 1956 May p 41 Muggleton, J., 1975 Jan p 90 Muggli, Reto, 1975 Apr p 84 Muhleman, Duane O, 1968 July p 29, 1970 Aug p 44 Muhlmann, Hans, 1957 Oct p 52 Muhly, James D, 1977 Oct p 122 Muir, Darwin W, 1976 Dec p 42 Murhead, Hilary, 1964 Nov p 71, 74 Muirhead-Thomson, R C, 1951 Aug p 36 Mukai, Terumi, 1970 Mar p 99 Mukherice, B B, 1963 July p 59 Mukherjee, D P, 1971 June p 51 Mukhenee, K. L., 1968 Feb p 92 Mukherjee, Tapen M, 1978 May p 142 Mulder, Gerard J, 1950 June p 33, 34 Mulder, J, 1965 Apr p 123 Mulholland, J D, 1970 Mar p 38 Mulholland, John H, 1963 June p 90 Mullard Research Laboratories, 1972 Jan p 52 Mullen, James W II, 1953 May p 33 Muller, A, 1966 Nov p 64 Muller, A J, 1956 Oct p 81, 82 Muller, C A, 1953 Dec p 46, 1959 Dec p 96 Muller, Erwin W, 1957 June p 114, 1964 Jan p 113, 1967 May p 127, Sept p 93, 1968 Mar p 53, 1971 Apr p 29 Muller, Franz, 1974 Mar p 96 Muller, Fritz, 1969 Feb p 27, 28 Muller, Hermann J. 1949 Dec p 14, 15, 1950 Jan p 32, Sept p 56, 58, 1952 Aug p 61, 1955 Nov p 52, 1956 June p 60, 1957 Sept p 107, 1958 Dec p 53, 1959 Sept p 138, 142, 225, 1960 Jan p 101, Apr p 144, Oct

p 55, 56, Nov p 105, 1964 Apr p 50, 1967 Nov p 25, 27, 1968 July p 55, 1970 Mar p 98, 99, 1971 Jan p 87, 88, 1972 Aug p 87, Dec p 84, 1976 Apr p 33 Muller, Johannes, 1958 Mar p 94, 96, 100, 1964 May p 116, 1966 Oct p 92; 1973 Feb p 36 Muller, Kenneth J, 1974 Jan p 38 Muller, Paul H., 1967 Nov p 27, 1970 Sept p 169 Muller, Paul M, 1968 Oct p 58, 1969 Oct p, 1976 Feb p 50 Muller, R, 1968 June p 23 Muller, Richard A, 1977 Nov p 72, 1978 May p 64 Muller, T , 1961 Mar p 80, July p 54 Muller, W , 1950 July p 40 Muller, Walther, 1962 Aug p 40 Muller, Werner, 1962 May p 104, 1974 Aug p 85 Muller, William H Jr, 1962 Jan p 68 Muller-Beck, Hansjurgen, 1961 Dec p 138 Muller-Eberhard, Hans, 1973 Nov p 56, 57 Muller-Hill, Benno, 1967 June p 52, 1970 June p 40, 44, 1974 June p 49 Muller-Lyer, Franz, 1968 Nov p 68-71, 74 Mulliken, Robert S, 1967 June p 66, 67, Nov p 28, 1970 Apr p 54 Mullin, M M, 1975 Mar p 80 Mullinger, Ann M, 1963 Mar p 57, 58 Mullins, Lorin, 1949 Aug p 21 Multiplex Company, 1976 Oct p 95 Mulvaney, D J, 1966 Mar p 84 Mumford, F E, 1968 Sept p 175 Mumford, Lewis, 1950 June p 52, 1965 Sept p 64 Mun, Thomas, 1963 Sept p 55 Munch, Edvard, 1973 Sept p 117 Munch, Ernst, 1963 Mar p 140 Munch, Guido, 1959 Dec p 100, 1960 June p 84, 1963 Jan p 75, Aug p 52, Dec p 57, 1965 Feb p 99, Aug p 26, 1971 July p 75, 1973 Oct p 75, 1974 Mar p 65 Munch, Luis, 1960 June p 84 Munchausen, Baron, 1953 July p 60 Munger, Henry M, 1975 June p 15 Muni, Paul, 1972 Dec p 91, 93 Munk, Walter H, 1952 Oct p 58, 60, 1955 Jan p 31, 1958 July p 88, 1959 Apr p 41, Aug p 76, 1970 Jan p 115, 1971 Dec p 85, 86 Munn, E A, 1973 Nov p 55, 64 Munnich Karl O, 1971 Oct p 68 Muñoz, J M 1954 Jan p 34 Munro, A F, 1963 Nov p 112 Munro, Hamish, 1974 Feb p 89 Munson, Paul, 1961 Apr p 57 Munson, Paul L, 1970 Oct p 42 Munson, Thurman, 1977 May p 119 Munson, W A, 1974 Nov p 80 Munster Zoological Institute, 1957 Feb p 44 46, 49 Munsterberg Hugo 1967 Jan p 25 Muntz, W R A, 1963 Jan p 62, 1964 July p 32, 1965 Feb p 44 Muntzing, Arne, 1951 Apr p 56 Munyon, William, 1972 Jan p 29 Munz, F., 1966 May p 40, 41 Muqqadası, 1967 May p 71 Murachi, T. 1973 Oct p 54 Muralt, Alexander von, 1956 Mar p 52 Muramatsu, Minoru, 1971 July p 43 Muraton, Lodovico A, 1968 May p 97 Murayama, Makio, 1975 Apr p 47 Murca-Pires, João, 1955 Apr p 74 Murch, Gerald M., 1976 Dec p 46, 47 Murchison, Roderick, Sir, 1959 Feb p 76, Nov p 174 Murdin, Paul, 1975 Mar p 28

Murdock, Bennet B Jr, 1966 July p 92, 94, 1971 Aug p 84, 85 Murdock, George P, 1953 Nov p 60 Murdock, John R., 1951 Apr p 32 Murgatroyd, R J, 1964 Mar p 70 Murie, Adolph, 1968 Nov p 101, 102 Murphey, George E., 1965 Dec p 68, 74 Murphey, Rodney K, 1974 Aug p 42, 44, 1978 Apr p 134 Murphree, Robert, 1966 June p 99 Murphy, Douglas P, 1950 Mar p 52, 55 Murphy, Frank, 1951 July p 30 Murphy, Franklin D, 1953 May p 54 Murphy, Frederick V, 1962 Aug p 36, 1971 Julyp 94 Murphy, Gardner, 1974 Dec p 26 Murphy, George, 1957 Mar p 45 Murphy, Judith A, 1970 Sept p 149 Murphy, Mary T J, 1967 Jan p 38 Murphy, Patrick, 1974 June p 91 Murphy, Robert, 1971 Jan p 27 Murphy, Robert C, 1955 Mar p 89, 90, 1962 Sept p 113, 213, 1973 June p 27 Murphy, Robert F, 1956 May p 74, 75 Murphy, W P, 1967 Nov p 25, 27 Murphy, William P, 1949 Dec p 14, 15 Murray, A T, 1970 Dec p 107 Murray, Arthur, 1956 Nov p 135 Murray, Bruce C, 1965 Sept p 76, Oct p 42, 1966 Apr p 56, 67, 1968 Feb p 78, Aug p 51, 1969 Mar p 84, 1970 May p 27, 1972 Mar p 40, 1974 Apr p 48, 1977 Dec p 86, 1978 Mar p 80 Murray, E S., 1955 Jan p 75 Murray, Edwina E, 1976 Sept p 55 Murray, Gilbert, 1949 Dec p 17 Murray, Gordon, 1951 Mar p 21 Murray, H C, 1952 May p 40 Murray, Henry A , 1950 Sept p 82, 1952 Nov p 22 Murray, J J Jr , 1975 Aug p 53, 54, 57 Murray, John, 1960 Feb p 125, 126, 1970 Nov Murray, John M , 1974 Oct p 50, 1975 Nov Murray, John, Sir 1953 May p 94, 1956 June p 41, 1961 Dec p 52, 1969 Sept p 131 Murray, Joseph, 1972 Nov p 105 Murray, Joseph E, 1959 Oct p 60 Murray, Merritt J, 1971 Jan p 93 Murray, R C, 1949 Apr p 27 Murray, Thomas E, 1950 May p 27, Aug p 28, Oct p 24, 1953 Sept p 72, Dec p 48, 1954 July p 46, Aug p 36, Nov p 34, Dec p 52, 1955 May p 50 Murraye Lord 1977 Dec p 88 Murti, Gopal, 1977 Dec p 90 Mūsā, Banū, 1970 Oct p 112. 113 Musa, Sextius F, 1954 Nov p 98 Musacchio Jose M, 1977 Mar p 47 Musallam, Basım, 1974 Sept p 46 Muscatine, Leonard, 1975 Mar p 82 Musil, Rudolf, 1972 Mar p 70 Muskie, Edmund S., 1969 Mar p 26, 1970 Apr p 44 Musschenbroek, Pieter van, 1948 Aug p 39-41. 1970 May p 119 Musselman, T E, 1957 July p 126 Musset, Alfred de, 1949 Oct p 31 Musset, Paul, 1975 July p 46 Mussolini, Benito, 1953 July p 59 Musson, A E, 1964 Jan p 106 Mustard, R., 1973 Nov p 42 Mustin, Lloyd M., 1972 Nov p 19 Mutawakkil, 1968 Apr. p. 95 Muybridge, Eadweard, 1960 May p 148, 1967 Apr p 56, 64, 65, 1974 Oct p 82

May comman E. A. 1966 Mer. p. 60. Mysechan V. L. 1975 M., p. 13. Myttley States of America 1948 May p. 33. Mara E O. 1949 Sept a 14 Mas Chiles A. 1963 Sept p. 141. 141. Myers, George S. 1963 July p 122 Myers, Heary R., 1972 Nov. p. 16. Myers, J. E. 1951 Dec. p 30: 1953 Oct. p. 32. Myss.R.L. 1956 Nov. p 102, 1524 Vijets, Rozald E., 1964 J.m. p. 45, 1967 Amg. Wess, W D_ 1969 Apr. p. 63. Mynter, Herman, 1963 M. - p. 121-126, 123. Mortel, Alm, 1974 July p. 46; Oct. p. 21. Mind I, Gazzar, 1945 Fair p. 9; 1954 Sept p 70; 1956 Dec. p. 39; 1963 Sept. p 215; 1965 ALZ p. 18, 19; 1963 Nav. p. 27, 1974 Sept. p 37, Dec. p 60. Myres, Icaa, 1954 May p. 73 Mynamicopoulos, Numes C., 1971 Fab. p. 45 Myrick, Robert ML, 1966 June p 66.

N

Nabarro, Frank R. N., 1969 Mar p 33, 1977 Dec. p 135 Naoaler, M., 1971 Mar p 80 Nabayer, ML, 1965 Oct. p. 60. Nabrit, S.m. 21 ML 1956 ALZ p 49 Nanman can, David, 1958 Dec. p 88, 1959 Nov p 31, 33, 34, 1961 Feb p 90 Nichshon, L. 1975 Oct. p. 164 N.del, Lynn, 1977 June p 89, 92, 93, 93 Nadler, Ronald D., 1976 July p 55 Naegele, Rocent F., 1973 Oct. p 23 Naeser, C W., 1976 Dec. p 119 Visic, Richard L., 1966 July p 36 Nafe, John E., 1959 June p 78, 1962 May p 124 Naftolin, Frederick, 1976 July p. 51, 56 Nagar, Takashi, 1951 June p 31 Nagao, Makoto, 1973 No. p 78 Nagaoka, Hantaro, 1956 No. p 94, 96, 104 Nagashima, C. thenne, 1966 Oct. p. 46 Nagata, Naokazu, 1970 Oct. p. 49 Nagata, Tosh.o. 1963 July p 69, 1967 Feb p 48 Nagel, Ernest, 1958 Dec p 112, 1962 Apr p 94, 1967 Dec p 106, 1971 Mar p 56, Aug. p 93, 1973 May p 82, 1975 May p 51 Vagel, Stuart, 1965 No. p 27 Nagel, Wilibald A., 1963 July p 124 Nageli, Carl von, 1956 Oct. p 79, 1968 July Vagington, Jack, 1963 Jan p 52, 55 56 Nagle, David, 1975 Apr p 56 \agle, John, 1966 Dec p 122 \a20.7a City University, 1960 Feb p 109 \a23. Bartholomew S, 1963 Mar p 45, 47-49. 1965 Jan p 52, 1972 Oct. p 85, 1977 Mar P 100 333. George, 1971 Apr p 56 1383. Lois A , 1977 Mar p 100 Nahm, Milton C 1941 161 p 43 Nahm, Werner 1974 Ma, p 117 Nahmias, Andre J 1973 Oct. p 33 Vail, Virginia Men. 1994 Jun p. 32. Vaitch, Viraka, 1974 Oct. p. 52 Naji al Asil 1952 Oct p 63 Yakazami Kuzusi in 1969 Feo p 165 Yakur Nobey and 1970 Spr. p. 154 Value 16 1, No. 1967 400 p 54 Nakano Majayaya, 1971 Juli p. 25

٠ ۾

Nalma T. 1967 Alig p. 32, 35 Nilma Manmed, 1973 Mily p. 31, Nilalamm Erwin N. 1969 Dec p. 11 Nakaya Ukatana 1971 Aprap. 163. National Report Ma 1975 April 47. Nilao Castinil Camping, 1967 Apr. p. St. N. In. D. etd. 1971 Aug. p. 18. N. Iniu Ye dire. 1963 J. I. p. 45; 1971 Ju., p. 105; 1973 Feb. p. 68; 64; Line p. 63; 64. ists in p 60: No. p. 43.79 N_mi_s Jeroma 1953 No., p. 31: 1955 A_2 p. 41. Nampejo, 1957 June p. 136. Nangaron, A. L., 1965 M., p. 21. Nazsen, Françoi, 1954 Dec p. 44, 1901 May ⊋ 91 Negres, John, 1949 Apr. p. 31; 1976 Apr. p. 104, 1977 Nov p 151 Nupoleon Bompuna sea. Bonupana Nipoleon Nanc²eca III, 1967 July p. 103, 1970 Aug. p. 92. 1971 NL, p. 83 Napien Lews K., 1975 Jan. p. 102, 103 Narrada Eleca 1966 July p. 49 Narahasan Toshio. 1967 Aug. p. 69 Namang H. K., 1974 Feb p 36. Narrang Sarran A., 1977 Jan. p. 47 Nurci, George L., 1956 July p. 50 North George S., 1953 May p SS Nama, F., 1965 Nov. p. 50 Narlikar, J V., 1966 Dec. p. 51, 1974 Oct. p. 56. 1975 Dec. p 68, 1976 Feb p 45 Narses, 1963 Dec. p. 116. N.A.S.A., see National Aeronautics and Sp. ce Administration (NASA). Nasa Sichada, 1976 May p. 34 Nasn. Ogden, 1967 Jan. p 98 Nasmmoto, H., 1969 Oct. p. 35 Nasmyin, Painck W., 1973 Feb p 71 Nasr, Jemdet, 1957 July p. 116 Nasr-ed-din, 1969 Nov p 87-89, 91 Nassau, Jason J., 1950 Feb p 37, 1952 July p 50, 56, 1963 May p 75 Nasse, Christian F., 1965 Aug. p. 88 Nasser, Gamal A., 1963 Sept. p. 147 Nassim, J. R., 1963 Nov. p. 102. Nasu, N., 1949 Feb p 42. Natali, P. G., 1972 June p. 35 Nath, Pran. 1978 Feb p 138 Nathan, M., 1963 July p. 38 Nathans, Daniel, 1964 Oct. p. 52. Nathanson, James A., 1977 Aug. p. 108 Nathanson, Neal, 1973 Jan. p 22, 25 Nathenson, Stanley, 1972 June p 34, 1977 Oct. p 99, 103 National Academy of Engineering, 1965 Feb p 50, 1970 Feb p 13, 16, 1972 Sept. p 143, 1974 Aug. p 48 National Academy of Sciences, 1948 July p. 30. Oct. p 25, 1949 Mar p 27, June p 28, July p 26, Nov p 22 1950 Apr p 30 June p 26 29, Sept p 46, 1951 June p 32 1953 May p 53, June p 44 1954 Jan p 38 Apr p 45. 1955 June p 47, Dec p 33 54, 1956 Jan p 45. July p 46 Sept p 110. Nov p 41, 44. Dec p 56, 1957 Mar p 68, Aug. p 56, 1958 Mar p 58 Apr p 50 Sept p 171, 84, Dec. p 56, 1959 Jan p 43, Mar p 44, Apr p 63, May p 68, June p 78, 1961 May p 75, Oct p 81, Nov p 79, 1963 Sept. p 118, 1964 May p 58, July p 46, 1965 Jan p 48, Feb p 50, Mar p 54 July p 20 46 1966 Mar p 56-58, Apr p 48 May p 52, Aug p 42, 1967 Aug. p 38, 1968 Nov p 55, 1969 Oct p 46, 1970 Feb p 13, 1972 Mar p 40, 1974 Apr p 49, Aug. p 48, Nov p 50, 1975 June

p. 15, 12h p. 32: Dec. p. 27, 1975 A.z. p. 42; Dec. p. 41: 1977 J.n. p. 17: J.n. p. 21, 1.n. p. 21, 25, Sept. p. 95: Oct. p. 34, 1978 Feb. p. 76: Apr. p. 51. Nutrical Agreements and Space Administration Amas Raseuron Center, 1953 Oct. p. 41, 1958 Jan. p. 36; 1960 Oat. p. 129, 135; 1964 Feb. p. 50-52, 5o; 1977 Min p. 39; Dec. p. 84. Number of Action and Space Administration George C. Marshall Space Flagat Center, 1964 Fab p. 52.57 Nutronal Aeronaupo and Space Administración Goddard Space Figur Center, 1963 May 2. 89, 94; Aug. 21. 25; 1964 Feb. p. 50, 52, 54, 1955 Mir. p. ol. 63, ob; 1956 Apr. p. 43, May 2.63, Oct. 2.44; 1970 Mar 2.41, 44, 1971 Feb p. 31, Dec. p. 25, 29: 1976 Oct. p. 70, 75, Nutreal Associates and Space Administration Lingley Research Center, 1978 Mar p. 87 Nutronal Aeroniums and Space Administration (NASA) 1959 Lang 62, Mar p 60, Apr p. 62, Sept. p. 102; 1960 Apr. p. 60; May p 02, Aug. p. 41, 42, 44, 40, 47, 1901 July p. 80, Sept. p. 85. Oct. p. 94, 98; May p. 76, 1962 J.m. p. 36, Feb. p. 56, co. Apr. p. 75, May p. 55; Jime p. 73, Aug. p. 97, 98, 1963 Feb. p 05, May p. 87, 91, 94, Jane p. 57; July p. 70, 74, 75, 84, Sept. p 84, Oct. p 70, Dec. p 65, 1954 Mar p. 65, June p. 25-30, 32, 34, Oct p 29, 1965 July p 22, Nov. p. 44, 46, 1965 Jan. p 54, Mar p. 58; Apr. p. 48, 56, Sept. p 238, Oct. p 43, Nov. p 72, 1967 Nov. p 37, 41, Dec. p 50, 1968 Jan. p. 68, Feb p 108, 115, 116; May p 59, 60, 71, 75-77, Not p 92, 1909 Jan. p 52, 53, 62, June p 96, 101, 1970 Jan. p 49, Feo p 31, Mar. p 44, 59. Apr p 104, 45, May p 27, 54, Sept. p. 54 161, 1971 May p 22, 30; Aug. p 63, 66, 68, 70, 1973 Apr p. 46, July p. 40, Oct. p. 72, 75. 77. 78. Nov p 24, 1974 Feb p. 42, 44, May p 59, Oct p 22, Dec p 42, 1975 May p 50, Sept p 110, 131, 143, 29, 63, 64, 1976 Apr. p 54. Nov p 111, 64, 1977 Feb p 35, 36, 58, Apr p 22, July p 37, 39, Oct. p 51, 53, 55, Nov. p 59, Dec. p 84, 1978 Feb p 69, May p 64, 72. Nauonal Association for the Repeal of Abortion Laws, 1973 Mar p 45 National Association of Biology Teachers, 1972 Aug. p 44 National Association of Manufacturers, 1970 Mar p 35 National Bank of Merico, 1976 Sept. p. 136 National Board of Medical Examiners, 1975 Feb p 16 National Bureau of Standards, 1948 Aug p 52, 49. Dec p 27, 1949 Feb p 28, 1950 Oct p 28, Dec. p 16, 1951 June p 27, 1952 Feb p 58, 59, Mar p 34, 1953 Mar p 84-86, Apr p 37, May p 53, June p 38 44, 52, Sept. p 53, 76, Oct p 52, Nov p 51, Dec. p 50, 56, 1954 Jan p 38, Mar p 29, July p 40, Sept. p 74, 1955 Mar p 38, Aug. p 29, 32, 33, Sept. p 134, 136, 69, 1956 July p 48. Oct p 56, 1957 Jan p 20, 51, Feb p 73, 75, Mar p 91, 92, Aug p 62, 1958 Sept. p 80, 1959 Jan. p 62, 1960 Oct. p 78, 1961 Jan p 88, 1962 Feb p 81, Sept p 77, 1964 \pr p 82, July p 35, Oct p 70, 1965 Mar p 99, June p 101, Nov p 59, 1966 Feb p 43, July p 107, 74, Oct p 70, 1968 June p 52 62, Nov p 60, 1969 Sept p 90, 1970 Oct p 52, 65. Nov p 69, 70 1971 Mar p 20, 21, 23, Sept p 76. Nov p 26, 1972 May p 49, 1973 Sept p 69, 1975 Aug p 47, Oct p 24, 1976 Feb p 80, 83, Mar p 604, 1977 Feb p 20,

June p. 37; Sept. p. 64; Dec. p. 138, 144, 47, 49, 51, 52.

National Committee on Radiation Production, 1960 Nov. p. 91.

National Company, 1957 Feb. p. 79.

National Council of Teachers of Mathematics, 1958 July p. 47.

National Dental Institute, 1948 July p. 30. National Education Association, 1954 Feb. p. 29; 1956 Dec. p. 60.

National Federation of Sciences, 1958 Apr. p. 49.

National Foundation for Infantile Paralysis, 1948 Oct. p. 25; 1949 May p. 19; Aug. p. 33; Sept. p. 20; 1952 June p. 33; Dec. p. 28; 1953 Mar. p. 52; June p. 50; July p. 27, 28; Dec. p. 52; 1954 Apr. p. 45; June p. 48; 1955 Apr. p. 47; June p. 46; 1959 Feb. p. 90.

National Geographic Society, 1949 Jan. p. 48; Aug. p. 25; 1950 Dec. p. 40; 1952 Jan. p. 56; 1953 Apr. p. 33, 36; 1954 Aug. p. 38; 1964 July p. 48; 1975 Oct. p. 77; 1978 Apr. p. 94.

National Geographic Society-Palomar Observatory Sky Survey, 1968 Oct. p. 30, 31; 1971 May p. 55; 1977 June p. 68-70; Aug. p. 33; Nov. p. 77.

National Lead Company Titanium Alloy Manufacturing Division, 1951 June p. 20. National Research Corporation, 1954 July p. 38, 39

National Science Foundation, 1948 May p. 32; June p. 24, 7, 9, 10; July p. 30; 1949 Feb. p. 11-15; May p. 26; Aug. p. 25; Dec. p. 27; 1950 Feb. p. 24; Apr. p. 30; June p. 26; Sept. p. 46; Nov. p. 25; Dec. p. 26; 1951 Apr. p. 32; Sept. p. 45; Oct. p. 32; Dec. p. 34; 1952 Jan. p. 40; Mar. p. 34, 36, 38; Apr. p. 37; 1953 Aug. p. 40; Sept. p. 51; Nov. p. 50, 51; 1954 Mar. p. 29-33; Apr. p. 45; June p. 64; Dec. p. 54; 1955 Sept. p. 78; Dec. p. 54; 1956 Jan. p. 44, 45; Mar. p. 49; Apr. p. 72; Aug. p. 49; Oct. p. 56, 58; Nov. p. 61, 62; 1957 Jan. p. 58, 64; Feb. p. 56, 57; July p. 64; Sept. p. 106; Nov. p. 45, 47; 1958 Jan. p. 44; Feb. p. 40; Mar. p. 52; Apr. p. 49, 64; May p. 52, 73; July p. 47; Sept. p. 171, 172, 85; 1959 Jan. p. 62; Feb. p. 58; Apr. p. 42; Aug. p. 60; 1960 Feb. p. 68; June p. 82; July p. 74, 81; 1961 Jan. p. 78; Feb. p. 67; Aug. p. 62; Sept. p. 84; 1962 Feb. p. 56; Sept. p. 94; 1963 Apr. p. 82; May p. 74; Sept. p. 82; 1964 Feb. p. 35, 94; Sept. p. 84; Oct. p. 56; Nov. p. 33; Dec. p. 32; 1965 Mar. p. 54; May p. 79; June p. 101; July p. 19-24; 1966 Jan. p. 34; July p. 48; Sept. p. 102; Nov. p. 41; 1967 Jan. p. 55; Mar. p. 50; 1968 Apr. p. 20; June p. 27; Oct. p. 58; Nov. p. 97; 1969 Apr. p. 84; 1970 Feb. p. 20; Mar. p. 53; Aug. p. 45; 1971 Apr. p. 75; Sept. p. 80; Oct. p. 40; 1972 Apr. p. 34, 65; June p. 52; Dec. p. 27, 26, 33; 1973 Nov. p. 102, 104, 46; 1974 Feb. p. 44; Sept. p. 74; 1975 July p. 45; 1976 Apr. p. 33-35, 37; May p. 50; Nov. p. 64; 1977 May p. 52; June p. 37; Sept. p. 96; Oct. p. 34, 36-41; 1978 Feb. p. 62, 74; Mar. p. 69; Apr. p. 94.

National Science Teachers Association, 1958 Apr. p. 64.

National Society for Medical Research, 1963 June p. 71; 1964 Oct. p. 58; 1966 Mar. p. 55; Nov. p. 65.

National Steel Corporation, 1963 Dec. p. 86; 1976 Nov. p. 106.

National Weather Improvement Association, 1951 Mar. p. 29.

National Welfare Rights Organization, 1972 Oct. p. 20.

National Wildlife Federation, 1972 Sept. p. 68.

Native American Church, 1951 Oct. p. 38; 1960 Mar. p. 145.

N.A.T.O., see: North Atlantic Treaty Organization.

Natowitz, Joseph B., 1978 June p. 71. Natta, Giulio, 1958 Aug. p. 66; 1963 Jan. p. 98; Dec. p. 64; 1967 Nov. p. 28; 1971 Dec. p. 50.

Natta, Guilio, 1957 Sept. p. 98, 104. Natter, R. E., 1969 July p. 52.

Naudet, Roger, 1976 July p. 43. Naudin, Charles, 1959 May p. 63.

Naugle, John E., 1963 May p. 87. Nauta, Walle J. H., 1977 June p. 89. Nauts, Helen C., 1977 May p. 76.

Navaho Scholarship Committee, 1960 Feb. p. 42.

Navarre, Prince of, 1967 May p. 74. Navarro, J. M. de, 1960 Jan. p. 56.

Naves, Yves R., 1951 Oct. p. 33. Navier, Louis, 1959 Dec. p. 122.

Nayak, Debi P., 1972 Jan. p. 28.

Naylor, Alfred, 1971 Feb. p. 46.

Naylor, Aubrey W., 1952 May p. 49, 56; Nov. p. 50; 1957 June p. 90; 1958 Apr. p. 109; 1960 Dec. p. 56.

Naylor, Ernst, 1975 Feb. p. 72, 74, 75. Naylor, G. W., 1967 June p. 26.

Nazerian, Keyvan, 1973 Oct. p. 28.

Nazia, Daniel C., 1957 May p. 63. Neal, John R., 1959 Jan. p. 120, 123; 1969 Feb.

p. 20.

Neal Mitchell Associates Inc. 1271 Mos. p. 21.

Neal Mitchell Associates Inc., 1971 Mar. p. 21, 23-25.

Neal, Victor T., 1973 Feb. p. 75. Neale, R. E., 1969 Nov. p. 34, 39.

Nealson, Kenneth, 1977 Mar. p. 110, 112, 114. Nebel, Bernard, 1951 Apr. p. 56; 1970 Feb.

Nebuchadnezzar, 1954 Apr. p. 56; 1968 Oct. p. 115.

Necheles, Hans, 1961 July p. 58.

Necker, Louis A., 1964 Oct. p. 103; 1968 Nov. p. 66, 68, 70, 72, 76; 1971 Dec. p. 63, 66, 67, 70; 1974 July p. 98, 99, 101, 102.

Neddermeyer, Seth H., 1948 June p. 28; 1950 Sept. p. 29; 1952 Jan. p. 25; 1961 July p. 46.

Nedospasov, A. V., 1967 July p. 83. Needham, A. E., 1965 Feb. p. 56.

Needham, Dorothy, 1953 Apr. p. 90. Needham, John T., 1954 Aug. p. 45; 1958 Sept.

p. 100.
 Needham, Joseph, 1952 Aug. p. 66; 1953 Sept.
 p. 109; 1959 Oct. p. 86; 1963 Nov. p. 110;

1964 Feb. p. 68. Needham, Lesley, 1975 Aug. p. 59. Needham, Paul R., 1953 May p. 81.

Neednam, Paul K., 1933 May p. 81. Neel, James V., 1950 Jan. p. 35; 1951 Aug. p. 58; 1958 Jan. p. 68; 1968 June p. 45; 1971 Nov. p. 38; 1974 Sept. p. 81; 1978 Jan. p. 66.

Neel, Louis, 1960 June p. 98; 1967 Feb. p. 48, 49; Sept. p. 228, 230, 234; 1970 Dec. p. 38, 95. Ne'eman, Yuval, 1964 Jan. p. 54; Feb. p. 89;

Apr. p. 60; June p. 55; Sept. p. 128, 130; Oct. p. 36; 1965 Mar. p. 52; 1969 Mar. p. 48; 1974 Feb. p. 72; July p. 55; 1975 Oct. p. 40; 1976 Nov. p. 49.

Neer, Robert, 1975 July p. 73. Neergaard, Karl von, 1962 Dec. p. 122.

Neet, Kenneth, 1970 Aug. p. 46. Nef, John U., 1952 Mar. p. 35; 1974 Aug. p. 93-95; 1977 Nov. p. 140.

Nefertiti, Queen, 1968 Nov. p. 64; 1971 June p. 37.

Neff, Lawrence R., 1961 Jan. p. 140. Neff, William D., 1961 Oct. p. 141. Neganov, B. S., 1969 Dec. p. 28. Nehemiah, 1965 July p. 89. Nehemias, J. V., 1954 Nov. p. 50. Neher, Erwin, 1977 Feb. p. 113, 114. Neher, H. Victor, 1963 July p. 84; 1966 May p. 62.

Neher, R., 1970 Oct. p. 45. Nehru, Jawaharlal, 1954 May p. 47; 1963 Sept.

p. 194; 1975 Apr. p. 20, 24. Nehru, Pandit, 1950 Jan. p. 30.

Neiburger, Morris, 1969 Jan. p. 52, 61. Neidergerke, R., 1958 Nov. p. 74.

Neidigh, Rodger V., 1967 July p. 79, 81. Neilson, Francis, 1964 Apr. p. 94. Neiman, Paul E., 1973 Sept. p. 69.

Neish, A. C., 1964 June p. 86. Neison, E., 1949 July p. 21.

Neisser, Ulric, 1964 June p. 100; 1974 Dec. p. 24, 29.

Nell, M. B., 1969 Apr. p. 33.

Nelsen, Judith M., 1969 Feb. p. 44; Dec. p. 20, 24.

Nelson, D., 1969 Nov. p. 39. Nelson, D. F., 1961 June p. 61. Nelson, David, 1953 Mar. p. 88.

Nelson, David F., 1975 Sept. p. 161. Nelson, Donald F., 1963 July p. 34, 37.

Nelson, Frieda, 1971 Oct. p. 42. Nelson, Gaylord, 1972 May p. 29.

Nelson, Howard J., 1956 Apr. p. 68. Nelson, Jack, 1971 May p. 100.

Nelson, Judith, 1968 Feb. p. 91.

Nelson, Leonard, 1960 May p. 145; 1961 Sept. p. 202.

Nelson, N. C., 1951 Jan. p. 14; 1954 June p. 83; 1960 July p. 133.

Nelson, Oliver E., 1965 Aug. p. 44; 1969 Nov. p. 58; 1971 Aug. p. 35.

Nelson, P. G., 1975 Oct. p. 94.

Nelson, Richard S., 1968 Mar. p. 91, 93, 96. Nelson, Robert A. Jr., 1949 June p. 27; 1973 Nov. p. 56, 64.

Nelson, Wilbur, 1959 Jan. p. 122. Ne-ma 'et-Rê', 1952 Aug. p. 24. Nemes, Marjorie, 1971 July p. 27. Némethy, George, 1973 Oct. p. 56. Nemiroff, Martin J., 1977 Aug. p. 57. Nemzek, Thomas A., 1976 May p. 50.

Nenquin, Jacques, 1977 Apr. p. 109. Nepi, Emma d., 1957 Mar. p. 126. Neprochnov, Yuri, 1978 May p. 55.

Nerales, Dorornauch, 1960 Nov. p. 166.Nernst, Walther H., 1950 Sept. p. 22, 34; 1952Mar. p. 51; 1967 Nov. p. 26; 1969 May p. 30.

Nernst, Weather, 1961 Dec. p. 124. Nero, 1949 June p. 41; 1958 Apr. p. 77. Nersesov, I. L., 1975 May p. 16, 18.

Nervi, Pier L., 1961 Nov. p. 154. Nesbitt, L. M., 1970 Feb. p. 34. Neshyba, Steve, 1973 Feb. p. 75.

Nesmeyanov, Alexander N., 1956 Aug. p. 30; 1958 Feb. p. 41.

Ness, Norman F., 1965 Mar. p. 63; Dec. p. 58; 1973 Oct. p. 75; 1975 Sept. p. 64

Nestel, Paul J., 1973 May p. 43. Nestor, King of Pylos, 1954 Jan p. 46; 1958 May p. 111, 112, 114, 118.

Neter, Erwin, 1964 Mar. p. 42. Netherlands, 1977 Jan. p. 24.

Netherlands Antilles Veterinary Service, 1955 Oct. p. 52.

Netherlands Cancer Institute, 1977 June p. 109 Netherlands Department of Health Statistics, 1968 Jun. p. 25.

Netherlands Foundation for Radio Astronomy, 1975 Aug. p. 28

Netherlands Geological Survey, 1970 Jan p 77 Netherlands National Medical Biological Laboratory, 1957 Oct. p. 60. Netherlands Plant Protection Service, 1969 Apr. p. 97.

Netherlands Rijksinstituut voor de Volksgezondheid, 1976 Oct. p. 29. Nettleton, Lewis L., 1961 Feb. p. 98. Nettley, P. T., 1967 Sept. p. 186. Network Analysis Corporation, 1970 July p. 94, 96.

Neuberg, Carl, 1949 Sept. p. 14; 1960 Feb. p. 141.

Neuberger, Albert, 1974 May p. 81. Neugebauer, Gerry, 1963 July p. 84; 1965 Oct. p. 42; 1967 June p. 52; Aug. p. 36; 1968 Dec. p. 43, 44; 1972 Aug. p. 59; 1973 Mar. p. 52, 56; Apr. p. 28; Oct. p. 75; 1974 Apr. p. 70, 72; 1978 Apr. p. 116. Neugebauer, M. M., 1963 July p. 84.

Neugebauer, Otto, 1956 July p. 41. Neuman, William F., 1957 Aug. p. 56. Neumann, A. C., 1969 Sept. p. 203. Neumann, John von, 1948 Nov. p. 14; 1949 Apr. p. 30; May p. 23; July p. 11; 1952 Aug. p. 36; Sept. p. 147; 1954 Aug. p. 21; Dec. p. 52; 1955 Feb. p. 62, 78, 80, 82; Apr. p. 58, 64, 66, 67; May p. 50, 90; Aug. p. 42; Oct. p. 76; 1956

May p. 50, 90; Aug. p. 42; Oct. p. 76; 1956 Oct. p. 118, 119; 1957 Apr. p. 68; 1958 Sept. p. 66; 1959 June p. 105, 110, 129; 1962 Dec. p. 108, 118; 1964 Sept. p. 118, 150, 152, 154, 156-158, 203; 1966 Sept. p. 68; 1967 Nov. p. 110; 1971 Sept. p. 180.

Neurath, Hans, 1949 Sept. p. 15; 1959 Aug. p. 125; 1961 Feb. p. 91; 1968 Apr. p. 49; 1974 July p. 74, 77.

Neurath, Marie, 1949 Dec. p. 52, 53; 1972 Sept. p. 91.

Neurath, Otto, 1952 Nov. p. 76; 1972 Sept. p. 91.

Neuringer, Leo, 1965 Apr. p. 78. Neurosciences Research Program, 1978 Feb. p. 103.

Neutra and Alexander, 1968 Sept. p. 194. Neutra, Marian, 1970 Oct. p. 86.

Neva, Franklin A., 1962 Sept. p. 104; 1966 July p. 32, 34.

Nevenzel, Judd C., 1975 Mar. p. 77. Nevers, Noel de, 1966 Feb. p. 22; Mar. p. 58. Neveu, André, 1975 Feb. p. 67; 1978 Feb.

p. 136. Nevins, James L., 1976 Feb. p. 83; 1978 Feb. p. 63, 67.

Nevis Laboratory, see: Columbia University Nevis Laboratory.

New England Medical Center, 1948 Oct. p. 7-12. New Jersey Agricultural Experimental Station, 1955 June p. 85; 1958 July p. 70.

New Jersey Central Power & Light Company, 1968 Feb. p. 26, 27, 30.

New Jersey Department of Health, 1964 Oct. p. 58.

New Jersey Society for the Prevention of Cruelty to Animals, 1966 June p. 56. New Jersey State Department of Health, 1966

June p. 56. New Jersey Turnpike Authority, 1966 Sept.

p. 180. New Jersey Zine Company, 1954 July p. 36. New Mexico Institute of Mining and

Technology, 1955 Sept. p. 78 New Mexico School of Mines, 1952 Jan. p. 20. New Mexico State Museum, 1963 Feb. p. 89. New School for Social Research, 1958 Aug.

p. 72; 1963 Apr. p. 128. New York Academy of Medicine, 1948 May p. 25; 1952 Mar. p. 42; 1955 Aug. p. 50; 1969

Jan. p. 23.New York Academy of Sciences, 1953 Apr.p. 42; 1961 Mar. p. 81; 1964 Dec. p. 64; 1971

Aug. p. 85. New York Air Brake Co., 1968 Sept. p. 196. New York Aquarium, 1963 Mar. p. 52. New York Blood Center, 1977 July p. 44.

New York Botanical Garden, 1966 Dec. p. 112; 1977 May p. 96, 100, 104.

New York City, 1977 Jan. p. 23, 24.

New York City Health Department, 1951 Apr. p. 36.

New York City Traffic Dept., 1970 Feb. p. 14. New York County Medical Society, 1955 Feb. p. 58.

New York Grand Central Station, 1964 July p. 48.

New York Memorial Hospital, 1949 Dec. p. 28. New York Metropolitan Rapid Transit Commission, 1965 Sept. p. 145.

New York Port Authority, 1963 Dec. p. 36, 38, 40; 1965 Sept. p. 136-137, 144-147, 174, 187; 1966 Dec. p. 74; 1968 Oct. p. 80, 85, 87.

New York Public Health Research Institute, 1977 Dec. p. 90.

New York Public Library, 1974 June p. 50. New York Regional Plan Association, 1965 Sept. p. 138, 143, 144.

New York State Athletic Commission, 1952 Oct. p. 46.

New York State Board of Health, 1956 May p. 62.

New York State Board of Regents, 1951 June p. 17.

New York State Building Code Council, 1971 Mar. p. 24.

New York State College of Medicine, 1958 Feb. p. 27.

New York State Committee for Equality in Education, 1952 Aug. p. 40.

New York State Court of Appeals, 1966 Dec. p. 66.

New York State Department of Education, 1952 Feb. p. 38; Mar. p. 42.

New York State Experimental Station, 1953 Aug. p. 38.

New York State Joint Hospital Survey and Planning Commission, 1948 Aug. p. 32.

New York State Legislature, 1952 Apr. p. 40. New York State Mental Health Commission, 1954 Mar. p. 42.

New York State University, 1964 Mar. p. 93. New York State Willard Asylum for the Insane, 1978 Feb. p. 49.

New York Teachers' Guild, 1952 Mar. p. 44. New York Telephone Company, 1953 Apr. p. 50.

New York University, 1953 Sept. p. 68; 1955 Nov. p. 54; 1956 Sept. p. 110; 1957 Dec. p. 84; 1958 May p. 71; Oct. p. 37, 39; 1964 Oct. p. 63, 69; 1965 Sept. p. 187; Oct. p. 21; 1966 Mar. p. 58; 1967 Aug. p. 23; 1972 Nov. p. 49.

New York University Courant Institute, 1966 Sept. p. 86.

New York University Medical Center, 1963 Mar. p. 45, 47; 1977 Mar. p. 47.

New York University School of Medicine, 1962 Oct. p. 66; 1963 Mar. p. 83, 84; May p. 72; June p. 87, 88, 90; 1964 Mar. p. 40, 44; 1966 July p. 34; Oct. p. 60; 1977 July p. 44.

New York University-Bellevue Consultation Clinic for Alcoholism, 1953 Apr. p. 48. New York Yacht Club, 1974 Dec. p. 64. New York Zoological Society, 1969 Apr. p. 114.

New York-La Guardia Airport, 1960 Dec. p. 55. New Zealand Department of Internal Affairs, 1970 Nov. p. 34.

New Zealand Royal Society, 1970 Nov. p. 74.

Newborn, Monroe M., 1974 Nov. p. 52. Newbould, B. B., 1963 Nov. p. 100, 104. Newcomb, Eldon H., 1970 Sept. p. 122; Nov. p. 24; 1975 Apr. p. 80, 93.

Newcomb, Simon, 1949 Dec. p. 56; 1950 Sept. p. 24; 1951 Mar. p. 48; 1955 Aug. p. 66; 1959 June p. 78; 1961 Apr. p. 67; 1971 Dec. p. 80. Newcombe, Howard B., 1951 May p. 24.

Newcomen Society for the Study of the History of Engineering and Technology, 1964 Jan. p. 98.

Newcomen, Thomas, 1964 Jan. p. 98, 100-105, 107; 1969 Apr. p. 104; 1974 Aug. p. 95, 96. Newcomer, Mark H., 1977 Nov. p. 116, 120. Newell, Allen, 1960 Aug. p. 60; 1962 Dec.

p. 110; 1966 Sept. p. 247, 250. Newell, Homer E. Jr., 1957 May p. 66. Newell, K. W., 1968 Apr. p. 77. Newell, Norman D., 1972 Dec. p. 30. Newell, Reginald E., 1970 Sept. p. 57; 1971 Jan. p. 32.

Newfoundland Department of Provincial Affairs, 1970 June p. 113.

Newfoundland Memorial University, 1971 Dec. p. 85.

Newgard, John J., 1960 Mar. p. 73; 1961 Mar. p. 57.

Newkirk, Gordon A., 1957 Apr. p. 144.
Newkirk, Gordon Jr., 1973 Oct. p. 75.
Newkirk, Marc, 1973 Jan. p. 20.
Newman, Arnold, 1956 June p. 72.
Newman, Ezra, 1972 May p. 45.
Newman, Horatio H., 1950 Sept. p. 55; 1959
Jan. p. 121, 122, 130; 1962 Aug. p. 67; 1970

Oct. p. 28; 1972 Feb. p. 42. Newman, Ian A., 1977 Nov. p. 138. Newman, James R., 1953 Feb. p. 84; July p. 66; 1954 Nov. p. 31; 1955 Aug. p. 64; 1958 Dec. p. 112: 1962 Aug. p. 64; 1966 Aug. p. 61; 1967

p. 112; 1962 Apr. p. 94; 1966 Aug. p. 61; 1967 Dec. p. 106; 1971 Mar. p. 56; Aug. p. 93; 1973 May p. 82; 1975 May p. 51. Newman, Marshall T., 1954 Apr. p. 46.

Newman, Melvin M., 1967 Dec. p. 58; 1972 Jan. p. 50.

Newman, Murray A., 1966 Nov. p. 74. Newman, R. A., 1967 Sept. p. 92. Newsome, A. E., 1977 Aug. p. 81. Newton, Humphrey, 1951 Dec. p. 20; 1955 Dec. p. 76.

Newton, Isaac, Sir, 1948 May p. 21, 38; June p. 34; Aug. p. 36, 38, 43; Oct. p. 16, 43; Nov. p. 15; 1949 Jan. p. 44, 45; Mar. p. 53, 54; Apr. p. 32; May p. 31, 32; Sept. p. 29; Nov. p. 11; Dec. p. 15; 1950 Feb. p. 24; Apr. p. 13, 14, 15, 16; May p. 48, 51, 50; Aug. p. 36; Sept. p. 28, 40, 41; 1951 Feb. p. 20, 60; Apr. p. 66; Oct. p. 57; 1952 Mar. p. 48, 63; Apr. p. 66; May p. 26, 72; June p. 45; Oct. p. 53, 55; Dec. p. 41; 1953 Jan. p. 52, 56; Mar. p. 36; Oct. p. 91, 98; Nov. p. 65, 93; 1954 Apr. p. 84; May p. 36, 82; June p. 77, 81; Aug. p. 45; Sept. p. 59, 60; Dec. p. 96-98; 1955 June p. 31; July p. 69-72; Sept. p. 164; Oct. p. 100, 38; Dec. p. 73-76, 78, 80; 1956 Jan. p. 59; Aug. p. 107, 108; Sept. p. 224, 228, 230, 79, 81; Nov. p. 104; 1957 Feb. p. 99, 102, 104; June p. 99; July p. 68; Dec. p. 37; 1958 Apr. p. 56, 64; June p. 74; Sept. p. 107, 162, 60, 62, 76, 82, 96; 1959 Apr. p. 68; May p. 149, 151, 152, 154, 84, 87, 88; Sept. p. 158; Oct. p. 113, 114, 122, 160, 166; Dec. p. 122; 1960 Mar. p. 64, 65; July p. 47; Sept. p. 182, 184; 1961 Mar. p. 94, 96; Dec. p. 86; 1962 Apr. p. 114, 126; 1963 Feb. p. 110, 144; Apr. p. 86; May p. 45, 46; Sept. p. 55, 88; Oct. p. 42; 1964 May p. 112; Aug. p. 38; Sept. p. 113, 133, 43, 51; Nov. p. 108; 1966 Jan. p. 110; June p. 35; Sept. p. 164; Oct.

p. 88: 1967 Apr. p. 106; May p. 129, 134; Sept. p. 181, 239, 248, 74; Oct. p. 69, 70; Nov. p. 91; Dec. p. 97; Aug p. 98, 101; 1968 May p. 96, 97, 98; June p. 34, 50, 91, 92; Sept. p. 50, 51, 55, 72, 74, 75, 81, 82, 97; Dec. p. 105; 1969 Jan. p. 131; 1970 Mar. p. 115, 38; May p. 119, 120; Aug. p. 94; 1971 June p. 63; Aug. p. 93; Dec. p. 82; 1972 Feb. p. 63, 64; Mar. p. 106; June p. 78, 80, 81, 82; Aug. p. 84. 87: Dec. p. 91: 1973 Mar. p. 103: Apr. p. 44: May p. 75; June p. 43; July p. 24; Dec. p. 87. 101; 1974 Apr. p. 93; Nov. p. 25; Dec. p. 35; 1975 June p. 49, 74; Nov. p. 102; Dec. p. 60; 1976 Feb. p. 44, 51; Mar. p. 65; Apr. p. 65; May p. 108, 89, 90, 98, 101; Aug. p. 74, 77, 90-93; 1977 Jan. p. 34; Apr. p. 116, 119-121; May p. 82; June p. 125, 32; July p. 123, 124, 128; Nov. p. 151; Dec. p. 126; 1978 Feb. p. 126. 128; Apr. p. 110. Newton, James R., 1961 Nov. p. 82. Newton, Robert R., 1972 Apr. p. 47; 1977 Oct. p. 80. Newton, Roger, 1966 Nov. p. 109. Ney, Edward P., 1949 Mar. p. 34: 1950 Oct. p. 15; 1951 Dec. p. 36; 1957 Feb. p. 64; 1960 June p. 69. Neyman, Jerzy, 1957 May p. 63; 1977 May p. 122. Neynaber, Roy H., 1968 Oct. p. 48. Nezahualcóyoti, King, 1964 July p. 98. Nezrick, Frank A., 1975 July p. 46. Ng, N. W., 1968 Sept. p. 132. Ng, Won K., 1964 Apr., p. 48, 49. Niacet Chemicals Corporation, 1949 Jan. p. 18. Niagara Mohawk Power Corporation, 1968 Feb. p. 30. Niall, Hugh, 1970 Aug. p. 40; 1973 Sept. p. 41. Niazi, Mansour, 1973 Mar. p. 30. Nicely, Vincent, 1977 July p. 98. Nichiporovich, A. A., 1955 Oct. p. 42. Nichmansohn, David, 1949 Sept. p. 16. Nicholas II, Czar, 1949 Dec. p. 17; 1965 Aug. p. 88, 93. Nicholas of Autrecourt, 1973 Apr. p. 92. Nicholas of Cusa, 1972 June p. 78, 80, 86; 1973 Apr. p. 90, 91. Nicholl, James, 1976 Aug. p. 24. Nicholls, John G., 1970 July p. 67. Nichols, Edward, 1953 Oct. p. 43. Nichols, Ernest F., 1950 Aug. p. 18; 1957 May p. 51; June p. 101; 1972 Feb. p. 63. Nichols, J. Burton, 1951 June p. 43, 50. Nichols, John R., 1964 Mar. p. 46. Nichols, Kenneth D., 1953 Nov. p. 50; 1954 July p. 42; 1955 June p. 48. Nicholson, A. J., 1953 Feb. p. 32. Nicholson, C., 1975 Jan. p. 71. Nicholson, Garth, 1974 Feb. p. 36. Nicholson, John F., 1978 Jan. p. 66. Nicholson, Seth B., 1953 Feb. p. 20; May p. 70; 1965 Apr. p. 113; Aug. p. 23, 27. Nicholson, William, 1960 June p. 106, 108; 1965 Jan. p. 89. Nickel, Louis G., 1952 Oct. p. 48. Nickerson, Rita J., 1977 Jan. p. 43. Nickerson, Walter J., 1960 Feb. p. 144; 1968 June p. 46. Nicol, J. A. C., 1971 Jan. p. 65. Nicol, P., 1973 Nov. p. 64. Nicolai, Jürgen, 1974 Oct. p. 93. Nicolaides, Ernest D., 1962 Aug. p. 114. Nicolaier, Arthur, 1968 Apr. p. 71. Nicolle, Charles J. H., 1953 Feb. p. 86; 1955 Jan. p. 74; 1964 Jan. p. 80, 81; 1967 Nov. p. 27. Nicolson, Garth L., 1974 Mar. p. 32, 33; 1975 Oct. p. 32; 1976 May p. 38; 1977 June p. 115,

116, 118. Nicolson, Mariorie H., 1977 June p. 122. Nicon, 1957 Mar. p. 105. Nicot, Jean, 1962 July p. 39. Nie. Norman, 1971 Dec. p. 18. Niebuhr, Carsten, 1969 Dec. p. 36. Nieburg, H. L., 1968 June p. 42. Niedergerke, R., 1965 Dec. p. 20; 1975 Nov. p. 38 Niedrach, Leonard W., 1963 June p. 78. Niedrach, R. J., 1953 Oct. p. 100. Niel, C. B. van, 1948 Aug. p. 34; 1951 Nov. p. 69; 1959 Oct. p. 96; 1960 Nov. p. 106, 114; 1962 June p. 90, Niels Bohr Institute, 1976 Nov. p. 58. Nielsen, Betty, 1965 Oct. p. 33. Nielsen, Diane, 1973 June p. 76. Nielsen, E. Steemann, 1956 Jan. p. 104. Nielsen, Holger B., 1952 Jan. p. 35; 1975 Feb. p. 64; 1976 Nov. p. 58. Nielsen, Karl O., 1968 Mar. p. 98. Nielsen, N., 1956 Aug. p. 54. Nielsen, N. A., 1966 Feb. p. 76-79. Nielsen, Paul, 1968 Apr. p. 20. Nielsen, Steeman, 1957 Nov. p. 55. Nielsen, Steemann, 1949 Oct. p. 18. Nielsen, T. W., 1966 June p. 100. Nielson, Duncan R. Jr., 1970 July p. 63. Nielson, E. T., 1963 Dec. p. 134. Nielson, J. M., 1948 Oct. p. 27, 34, 36. Nielson, Torsten, 1967 May p. 99. Niemala, L., 1962 Aug. p. 36. Niemann, Carl, 1964 Dec. p. 71. Niemi, Richard G., 1976 June p. 25. Niemitz, Carsten, 1976 Aug. p. 84. Niepce, J. Nicéphore, 1952 Nov. p. 30. Niepce, Joseph N., 1976 Aug. p. 72, 74. Nier, Alfred O. C., 1949 Aug. p. 48; 1953 Mar. p. 72, 74; 1958 Dec. p. 54; 1960 Nov. p. 174; 1977 July p. 37. Nieto, Michael M., 1976 May p. 96. Nieuwenhuizen, Peter van, 1977 July p. 59; 1978 Feb. p. 126, 142 Nieuwenhuys, R., 1975 Jan. p. 71. Nieuwpoort, W. C., 1966 Apr. p. 39. Niewodniczanski, H., 1949 Dec. p. 42. Nigerian Citizens National Convention, 1963 Sept. p. 171. Nigerian Federal University, 1963 Sept. p. 171. Nigerian Northern Peoples Congress, 1963 Sept. p. 171. Nigerian United Peoples Party, 1963 Sept. p. 171. Nigerian University of Ibadan, 1977 Apr. Niggli, Paul, 1958 Feb. p. 54. Nightingale, Florence, 1967 Feb. p. 27; 1973 Sept. p. 128. Nije, L. J. J., 1971 Feb. p. 19. Nikara, Tosaku, 1972 Aug. p. 90 Nikator, Seleukos, 1966 Feb. p. 106. Nikitin, V. N., 1961 Aug. p. 117, 118. Nilausen, Karlin, 1973 Junel p. 87. Nilson, L. F., 1951 Nov. p. 30. Nilsson, Gösta, 1969 Apr. p. 63, 64. Nilsson, Inga M., 1961 Feb. p. 62. Nilsson, Marianne, 1960 Feb. p. 128. Nilsson, R., 1961 June p. 139. Ninian, Saint, 1960 Nov. p. 154, 155. Nininger, H. H., 1965 Oct. p. 29, 30, 33. Niordson, Frithiof I., 1968 July p. 55. Nippon Sheet Glass Co., Ltd., 1977 Aug. p. 46. Nippon Telegraph and Telephone Public Corporation, 1977 May p. 47. Nirenberg, Marshall W., 1961 Dec. p. 81; 1962 Feb. p. 49, 76; Mar. p. 68, 69; July p. 78; Oct. p. 66, 74; 1963 Mar. p. 76; Aug. p. 50; Dec.

p. 44, 45; 1964 Sept. p. 82; Oct. p. 47, 51, 52; 1966 Feb. p. 37; Apr. p. 102, 106-108; Oct. p. 56, 57; 1967 Apr. p. 48; May p. 94; 1968 Jan. p. 36; Dec. p. 48; 1969 Oct. p. 28; 1977 Mar. p. 54, 55. Nisenoff, Martin, 1963 July p. 42; 1964 Apr. p. 42. Nishida, Atsuhiro, 1965 Mar. p. 64. Nishijima, Kazuhiko, 1957 July p. 84; 1959 Apr. p. 68; 1962 Jan. p. 53; May p. 74; 1963 Dec. p. 130; 1964 Feb. p. 83. Nishijima, Yasunori, 1965 Aug. p. 72. Nishikawa, O., 1967 May p. 127. Nishimura, Shimpe, 1948 Aug. p. 34. Nishimura, Susuma, 1965 June p. 57. Nishioka, David, 1977 Nov. p. 138. Nishioka, Kusuya, 1973 Nov. p. 56. Nisioka, Taizo, 1973 Apr. p. 20. Nisman, Bernard, 1963 Mar. p. 84. Nisonoff, Alfred, 1973 July p. 52, 59. Nissen, Cathy H., 1955 Feb. p. 75, 76. Nissen, Hans J., 1978 June p. 50. Nissen, Henry W., 1955 Feb. p. 67, 68, 73, 75; 1960 Sept. p. 83; 1962 May p. 134; 1972 July Nissl, Franz, 1948 Oct. p. 30; 1971 July p. 48. Nitowsky, Harold, 1977 Feb. p. 82. Nitowsky, Harold M., 1963 Nov. p. 72. Nitsch, Jean, 1954 May p. 40. Nitzan, David, 1976 Feb. p. 86. Niu, M. C., 1957 Nov. p. 79, 86. Nix, J. R., 1965 Aug. p. 53. Nixon, H. L., 1953 July p. 62; 1964 Oct. p. 46. Nixon, P. H., 1978 Apr. p. 127, 128. Nixon, Richard M., 1969 Apr. p. 18; Aug. p. 21, 24, 27; 1970 Jan. p. 21, 48; Feb. p. 43; Apr. p. 44, 45; May p. 15, 21, 54; June p. 17, 19, 20, 22, 23, 46; Sept. p. 80; Dec. p. 40; 1971 Jan. p. 44; Mar. p. 44, 48; Apr. p. 17, 20, 21, 24, 48; 1972 June p. 15, 24; July p. 48; Sept. p. 136, 40; Oct. p. 19; Nov. p. 18; Dec. p. 40; 1973 Mar. p. 44; July p. 20; Sept. p. 169, 171; 1974 May p. 20, 23; Oct. p. 55; 1975 Jan. p. 34; Mar. p. 47; Apr. p. 20, 30; 1976 Apr. p. 54; July p. 60; Nov. p. 27; Dec. p. 25; 1977 Nov. p. 43-45, 50; 1978 May p. 46. Nizery, André, 1956 July p. 104. Nkrumah, Kwame, 1961 Oct. p. 80. No. Lorente de, 1948 Nov. p. 15. Nó, Rafel L. de, 1970 July p. 58. Noah, 1959 Jan. p. 128; 1963 Sept. p. 57; 1967 Mar. p. 38. Nobécourt, Pierre, 1950 Mar. p. 49. Nobel, Alfred, 1949 May p. 34; Dec. p. 11-13, 15-17; 1957 Sept. p. 87; 1966 Dec. p. 56; 1970 Dec. p. 38. Nobel Foundation, 1949 Dec. p. 13, 17; 1951 June p. 45; 1967 Nov. p. 25-30, 33. Nobel Institute for Physics, 1957 Aug. p. 58; 1963 Apr. p. 70. Nobel, Park S., 1964 July p. 33. Nobel, Robert, 1949 Dec. p. 13. Nobert, F. A., 1952 June p. 48. Nobes, M. J., 1972 Oct. p. 89. Nobili, Leopoldo, 1953 Oct. p. 93. Noble, John, 1971 Mar. p. 98, 100. Noble, Joseph, 1969 Feb. p. 46. Noble, Robert L., 1964 May p. 93. Noble, W. C., 1969 Jan. p. 114. Nobs, Malcolm A., 1965 Dec. p. 77; 1973 Oct. p. 93. Nocard, E. I. E., 1962 Mar. p. 117. Noddack, Ida, 1958 Feb. p. 78; 1963 Oct. p. 65. Noddack, Walter, 1963 Oct. p. 65 Noel-Baker, Philip J., 1972 Nov. p. 23 Noell, Werner K., 1966 Oct. p. 84 Noelpp, B., 1952 Aug. p. 30.

Noelpp, I., 1952 Aug. p. 30. Noguchi, Hideyo, 1951 May p. 43. Noirot, Charles, 1961 July p. 138. Nolder, R. L., 1963 Aug. p. 78; 1967 Sept. p. 218, 97. Noll, A. Michael, 1966 Sept. p. 73. Noll, Hans, 1963 July p. 66; Dec. p. 46; 1964 Mar. p. 45, 55. Noll, Marcus, 1977 Nov. p. 72. Noll, Michael, 1974 May p. 61. Noller, Carl H., 1976 Sept. p. 75. Noller, Carl R., 1955 Jan. p. 57. Nollet, Antoine Abbé, 1965 Jan. p. 82. Nollet, F., 1961 May p. 115. Nomura, Masayasu, 1964 May p. 49; 1968 Sept. p. 86; Nov. p. 56; 1975 Dec. p. 33. Nonidez, Jose F., 1970 Oct. p. 44. Nooker, Eugene, 1964 Jan. p. 116. Norax, 1959 Dec. p. 63. Norberg, R. A., 1975 Nov. p. 87. Norberg, Richard E., 1957 June p. 76. Norberg, Ulla, 1975 Nov. p. 87. Nord, F. F., 1959 July p. 118. Nordberg, Gunnar, 1971 Aug. p. 47. Nordberg, M. E., 1961 Jan. p. 98. Nordberg, William, 1963 June p. 57. Nordenskiöld, Erland, 1967 July p. 93. Nordenskjöld, N. A. E., 1961 May p. 91. Nordheim, Lothar, 1964 Jan. p. 108; 1973 Dec. p. 55. Nordin, Albert, 1973 July p. 53. Nordland, W. A., 1967 May p. 56. Nordtvedt, Kenneth Jr., 1974 Nov. p. 28. Norlyn, Jack, 1976 Aug. p. 44D. Norman, A. Geoffrey, 1956 July p. 48. Norman, Irwin, 1955 Jan. p. 46. Normann, Richard, 1973 Jan. p. 76. Normet, L., 1954 Dec. p. 46. Norris, Earl R., 1949 Feb. p. 29. Norris, John F., 1969 Feb. p. 18, 21. Norris, K. H., 1960 Dec. p. 60. Norris, Louisa, 1962 June p. 100. Norris, Richard, 1962 June p. 100. Norris, W. P., 1955 Aug. p. 39. Norrish, R. G. W., 1953 May p. 31, 32; Dec. p. 76; 1960 May p. 137, 145; 1964 July p. 101; 1967 Dec. p. 48; 1968 Sept. p. 164, 176. Norrman Company, 1957 Dec. p. 41. Norsk Hydro, 1951 Dec. p. 31. Norstad, Lauris, 1971 Mar. p. 44. North, A. C. T., 1965 July p. 46; 1966 Nov. North American Air Defense Command, 1966 Sept. p. 88; 1973 Aug. p. 12. North American Aviation, Incorporated, 1949 May p. 38; 1953 Oct. p. 36; Nov. p. 67; 1954 May p. 50; 1957 Jan. p. 105; 1962 June p. 66; 1963 Feb. p. 50; 1964 June p. 35; 1972 Oct. p. 59. North American Philips Corporation, 1975 May p. 45. North American Rockwell, 1969 Sept. p. 95; 1971 Sept. p. 157; 1973 June p. 71; 1974 Nov. p. 35. North Atlantic Treaty Organization, 1962 Apr. p. 52; 1963 Apr. p. 80; 1966 Jan. p. 46; 1970 May p. 24, 56; 1973 Aug. p. 11; 1974 Oct. p. 55; 1977 May p. 52; 1978 May p. 44-51. North Carolina Agricultural Experiment Station, 1971 Nov. p. 96. North Carolina State College, 1950 Dec. p. 29; 1957 May p. 62; Dec. p. 66. North Carolina State University, 1956 Sept. p. 110; 1971 Nov. p. 96; 1973 July p. 48. North Carolina Tree Improvement Cooperative, 1971 Nov. p. 103. North, Harper Q., 1959 June p. 123.

North, Tony C. T., 1964 Nov. p. 71. North Vietnam Government, 1970 June p. 21. Northampton Dental Society, 1955 Feb. p. 36. Northampton Non-Political Anti-Fluoridation Committee, 1955 Feb. p. 37. Northcote, Donald, 1969 Feb. p. 107. Northeast Illinois Natural Resource Service Center, 1971 Feb. p. 86. Northeast Utilities, Inc., 1968 Feb. p. 29. Northeastern University, 1963 June p. 55. Northern General Hospital in Edinburgh, 1963 Nov. p. 102. Northern Rhodesia National Monuments Commission, 1958 July p. 78. Northover, W. R., 1969 Nov. p. 32. Northrop, F. S. C., 1956 May p. 70. Northrop, John H., 1948 Nov. p. 24; Dec. p. 31, 32; 1949 Dec. p. 14; 1950 June p. 33; 1951 Dec. p. 45, 46; 1956 Oct. p. 82; 1959 Aug. p. 119; 1961 Sept. p. 77; 1967 Nov. p. 27. Northwestern University, 1956 Apr. p. 60; 1957 May p. 55; 1958 July p. 52; 1962 Jan. p. 53; 1963 Aug. p. 110; 1964 Dec. p. 72, 73; 1965 Sept. p. 200; 1974 Nov. p. 51; 1978 Jan. p. 49, 50. Northwood, T. D., 1960 Apr. p. 92. Nortman, Dorothy, 1968 Dec. p. 50. Norton, Allen C., 1964 Dec. p. 64. Norton Company, 1965 Oct. p. 32; 1974 Dec. p. 92. Norton, Grady, 1954 June p. 36. Norton, James J., 1971 Feb. p. 53. Norton, Kenneth A., 1948 Dec. p. 27. Norton, Paul, 1975 Nov. p. 40. Norton, S. H., 1965 Nov. p. 43, 44, 46. Norton, Thomas, 1952 Oct. p. 74. Norwegian Bureau of International Whaling Statistics, 1966 Aug. p. 20. Norwegian Computing Center, 1977 Sept. p. 232. Norwegian Geotechnical Institute, 1963 Nov. p. 133. Norwood, W. D., 1966 May p. 47. Nosanchuk, T. A., 1974 June p. 56. Nosanow, L., 1967 Aug. p. 89. Nosco, Henri, 1974 Nov. p. 87. Noshkin, Victor E. Jr., 1975 June p. 90. Nossal, G. J. V., 1973 July p. 56, 59; 1974 Nov. p. 59. Noteboom, E., 1961 Apr. p. 68, 71. Notestein, Frank W., 1960 Sept. p. 98. Nöthiger, Rolf, 1968 Nov. p. 113. Noton, David, 1971 June p. 35; 1972 July p. 88. Nottebohm, Fernando, 1972 Apr. p. 76. Nottingham, Wayne B., 1962 Mar. p. 78. Noufflard, Henriette, 1949 Oct. p. 38. Nouguier, Emile, 1974 Feb. p. 96. Nouy, Pierre L. du, 1950 Nov. p. 52. Novacky, Anton, 1975 Jan. p. 87. Novaco, Anthony, 1973 May p. 37. Novak, Arthur F., 1972 Apr. p. 95. Novara, Comenicus M. de, 1966 Oct. p. 98. Novelli, G. David, 1961 July p. 66; 1963 Mar. p. 83, 85. Nover, A., 1964 Oct. p. 86. Novey, T. B., 1957 Oct. p. 56; 1959 Mar. p. 82. Novick, Aaron, 1948 June p. 25; 1951 May p. 23, 24; Oct. p. 24, 25; 1955 Nov. p. 64; 1965 Apr. p. 40; 1967 Feb. p. 36. Novick, David, 1960 Feb. p. 70. Novick, Richard P., 1967 Dec. p. 26. Novick, Robert, 1968 Sept. p. 124; 1975 Dec. p. 40. Novikoff, Alex B., 1949 Dec. p. 54; 1963 May p. 67, 69. Novikoff, Igor D., 1974 Dec. p. 40. Novikov, Igor D., 1967 Nov. p. 97.

Novogrodsky, Abraham, 1977 June p. 118. Novy, Frederick G., 1953 Mar. p. 54. Nowell, Peter C., 1961 Nov. p. 70; 1964 Feb. p. 61; May p. 90; 1977 June p. 116; 1978 Feb. p. 119. Noyce, Robert N., 1977 Sept. p. 63. Noyes, Arthur A., 1949 May p. 16, 17, 19. Noyes, Richard M., 1974 June p. 85. Noyes, Robert W., 1973 Oct. p. 74; 1978 Apr. p. 116. Noyes, W. A., Jr., 1968 Sept. p. 164. Nozaki, Mitsuhiro, 1960 Nov. p. 105. N.R.C. Equipment Corporation, 1962 Mar. p. 90. N.S.F., see: National Science Foundation. NSU, 1972 Aug. p. 14, 16, 23. Nuckolls, John H., 1973 Mar. p. 46; Nov. p. 48; 1974 June p. 24. Nuclear Development Corporation of America, 1956 Dec. p. 54. Nuclear Fuel Services Inc., 1976 Dec. p. 30, 36. Nuclear Power Group, Inc., 1955 July p. 48. Nudel, Uri, 1976 Aug. p. 69. Nuffield Foundation, 1952 Apr. p. 64; 1965 Mar. p. 42. Nuffield Institute for Medical Research, 1952 July p. 72, 73; 1965 Aug. p. 62. Nuffield, Lord, see: Morris, William. Nukiyama, Shiro, 1954 June p. 64, 66. Nundinio, 1973 Apr. p. 87, 88. Nunn, Joseph, 1957 Dec. p. 41. Nüno, Hiroshi, 1969 Oct. p. 48. Nur, Amos M., 1975 May p. 17. Nurmi, Paavo, 1976 June p. 114. Nurmia, Matti, 1970 June p. 48. Nussenzveig, H. Moijsés, 1974 July p. 70; 1977 Apr. p. 116. Nutrilite Products, Inc., 1969 Aug. p. 50. Nutrition Foundation, 1949 May p. 19. Nutt, D. C., 1956 Mar. p. 57; 1967 July p. 108. Nuttall, George H. F., 1951 July p. 63; 1964 July p. 78. Nutting, J., 1963 Aug. p. 80, 81; 1966 Feb. p. 75, Nutting, M. D. F., 1974 July p. 77. Nybelin, Orvar, 1965 Nov. p. 108. Nye, J. F., 1955 July p. 81. Nye, William P., 1963 Apr. p. 150. Nygaard, Kristen, 1977 Sept. p. 232. Nylin, K. G. V., 1961 Apr. p. 91. Nyquist, H., 1949 July p. 11. Nyswander, Marie, 1968 Sept. p. 86. Oak Ridge National Laboratory, 1948 Sept. p. 28; 1949 Nov. p. 30; 1952 June p. 21; July p. 35; 1953 May p. 53; Aug. p. 27, 28; 1954

p. 28; 1949 Nov. p. 30; 1952 June p. 21; July p. 35; 1953 May p. 53; Aug. p. 27, 28; 1954 July p. 40; 1955 July p. 50; Oct. p. 33, 59, 62, 64, 66; Nov. p. 54; 1956 Apr. p. 72; 1957 Dec. p. 84; 1958 Mar. p. 73; June p. 46; 1960 Jan. p. 87; Apr. p. 148, 153, 88; Oct. p. 58; 1962 Dec. p. 136, 137, 138; 1963 Mar. p. 107, 116, 83; Apr. p. 76; 1964 May p. 49, 91; 1965 Aug. p. 74, 76; 1966 Sept. p. 231; 1969 Apr. p. 66; 1970 Mar. p. 60; Nov. p. 14; 1971 Feb. p. 55, 58; May p. 18; June p. 28, 29, 31; 1973 Aug. p. 95; 1977 June p. 54.
Oakland University, 1964 Mar. p. 83.
Oakley, Kenneth P., 1954 Jan. p. 38; 1958 July

Oakley, Kenneth P., 1954 Jan. p. 38; 1958 July p. 77; 1966 Nov. p. 52; 1971 Mar. p. 47. Oates, L. E. C., 1962 Sept. p. 65. Oatley, C. W., 1971 Apr. p. 27; 1972 Jan. p. 56. Obermaier, Hugo, 1959 Nov. p. 170. Oberon, Merle, 1972 Dec. p. 91, 92.

Oberth, Hermann, 1949 May p. 35, 36; 1957 Nov. p. 67; 1959 May p. 50. O'Brian, Brian J., 1964 June p. 76, 79; 1965 Mar. p. 67; Dec. p. 55. O'Brien, Herbert, 1954 May p. 48. O'Brien, Hugh, 1977 Feb. p. 103. O'Brien, James C., 1950 Sept. p. 46. O'Brien, John, 1971 Nov. p. 36, 41. O'Brien, John S., 1973 Aug. p. 94. O'Brien, Lawrence C., 1961 Oct. p. 66. O'Brien, Morrough P., 1960 Aug. p. 83. O'Brien, Patricia J., 1972 Sept. p. 68. O'Brien, Robert T., 1966 July p. . O'Brien, Vivian, 1972 June p. 99. Obusek, Charles J., 1970 Dec. p. 30, Occhialini, G. P. S., 1948 June p. 28; 1949 Nov. p. 42; 1950 Dec. p. 27; 1953 Sept. p. 63; 1963 Mar. p. 63. O'Ceallaigh, C., 1969 Feb. p. 53; June p. 38. Ocean Systems, Inc., 1966 Mar. p. 27. Oceanography International Corp., 1973 Sept. Ochiai, Kunitaro, 1967 Dec. p. 20. Ochoa, Severo, 1953 Nov. p. 82; 1954 Jan. p. 36; 1956 June p. 54; Sept. p. 114; 1957 Sept. p. 188; 1959 Dec. p. 78; 1962 Feb. p. 43, 76; Mar. p. 68, 69; Oct. p. 66, 74; 1963 Mar. p. 84; Aug. p. 50; 1964 July p. 46; Sept. p. 82; 1966 Oct. p. 60; Nov. p. 65; 1967 Nov. p. 28; 1968 Jan. p. 40; Oct. p. 67. Ochsenfeld, R., 1966 May p. 31; 1967 Mar. p. 116; 1971 Mar. p. 75; Nov. p. 22. Ochsman, Robert B., 1975 Mar. p. 40. Ochsner, Alton, 1962 July p. 39, 41. O'Connell, D. J. K., 1960 Jan. p. 112; 1973 Dec. p. 99. O'Connell, Daniel T., 1953 Apr. p. 37. O'Connell, Donald N., 1962 Jan. p. 47; 1968 Sept. p. 206. O'Connor, Frank, 1977 May p. 124. O'Connor, Garrett J., 1965 May p. 48. O'Connor, Michael, 1970 Apr. p. 89. O'Connor, Neil, 1973 Mar. p. 76. Octavian, see: Augustus, Caesar. Oda, Takuzo, 1963 June p. 77; 1964 Jan. p. 73. O'Day, William R. Jr., 1967 Sept. p. 98. O'Dell, A. C., 1960 Nov. p. 154, 157. O'Dell, Boyd L., 1968 May p. 106. Odell, Floyd A., 1964 Jan. p. 116. Odian, Allen C., 1967 Oct. p. 43. Odilo, 1951 Oct. p. 65. Odishaw, Hugh, 1958 Mar. p. 54; 1959 Feb. p. 59. Odland, George F., 1966 Aug. p. 52; 1969 June p. 43. Odlum, Doris, 1951 Mar. p. 30. Odoacer, 1965 Sept. p. 63. Odoi, Hiroshi, 1955 Feb. p. 72, 73. Odum, Eugene P., 1969 Jan. p. 111; 1971 Sept. p. 129, 130. Odum, Howard T., 1964 Mar. p. 59; 1971 Sept. p. 91, 99, 100, 127. O.E.C.D., see: Organization for Economic Cooperation and Development. Oehler, E., 1969 May p. 24. Oehlert-Lorenz, Beatrice, 1961 Dec. p. 116. Oen, Ordean S., 1959 Sept. p. 201; 1968 Mar. p. 91. Oenslager, George, 1956 Nov. p. 77. Oerskov, J., 1951 Feb. p. 51. Oersted, Hans C., 1953 Oct. p. 91, 92; 1954 July p. 73; 1955 June p. 64; 1958 Feb. p. 29; Nov. p. 31; 1961 May p. 107-109. Oesterhelt, Dieter, 1976 June p. 41-43. Dettinger, Anthony G., 1956 Jan. p. 30, 32; 1966 Sept. p. 161, 168, 193.

Ogata, Shoitsu, 1960 Nov. p. 105. Ogawa, I., 1957 Sept. p. 107. Ogedei, Khan, 1963 Aug. p. 55, 58-60. Ogg, Richard, 1967 Feb. p. 79. Ogilvie, R. E., 1965 Oct. p. 29. Ogston, Alexander, 1968 Feb. p. 84, 93. Oh, K. P., 1975 July p. 60. O'Hanlon, James F., 1974 Apr. p. 51. O'Hara, Charles E., 1953 Feb. p. 58. O'Hare, Robert, 1954 Oct. p. 73. Ohio Agricultural Experiment Station, 1953 Aug. p. 37, 38. Ohio Agricultural Research and Development Center, 1975 Nov. p. 60; 1977 Jan. p. 31, 33. Ohio State University, 1949 Nov. p. 30; 1956 Apr. p. 60; July p. 32, 33; Oct. p. 56, 57; 1958 Mar. p. 73; 1963 Feb. p. 48; June p. 124; 1964 July p. 83; 1966 Mar. p. 58. Ohio State University Hospital, 1960 May p. 81. Ohio State University Radio Observatory, 1977 Aug. p. 34. Ohio-Nuclear, 1975 Oct. p. 57. Ohkawa, T., 1967 July p. 88. Ohlin, Bertil, 1977 Dec. p. 84. Ohm, Georg S., 1954 July p. 73, 76; 1958 Apr. p. 61; 1969 Jan. p. 131; 1970 Oct. p. 67. Ohman, Olof, 1958 Dec. p. 64. Ohnishi, Kunihiko, 1976 Mar. p. 31. Ohno, Susumo, 1963 July p. 61. Ohnuki, Yasushi, 1970 Feb. p. 108. Ohring, George, 1964 Mar. p. 70. Ohtaki, Tetsuya, 1967 Nov. p. 54. Ohtsuka, Eiko, 1965 June p. 57. Ohtsuki, Iwao, 1975 Nov. p. 38, 40, 45. Ohtsuki, Mitsuo, 1971 Nov. p. 22, 31. Ohwaki, Sonoko, 1961 Apr. p. 76. Oigarden, Tarald, 1970 Dec. p. 41. Oil Shale Corporation, 1966 Feb. p. 26, 27, 29. Ojala, Eric, 1972 Jan. p. 46. Okabe, Hiromi, 1973 Sept. p. 69. Okada, Shintaro, 1973 Aug. p. 94. Okada, Tadashi, 1975 Feb. p. 46. Okada, Y., 1969 Apr. p. 30. Okamoto, S., 1967 Dec. p. 26. Okazaki, Kayo, 1977 Apr. p. 83, 86, 92. Okazaki, R., 1968 Aug. p. 43. Oke, J. B., 1963 May p. 77; Dec. p. 58; 1967 Dec. p. 50; 1969 Jan. p. 30, 31; 1974 May p. 60; 1975 Dec. p. 50; 1976 Dec. p. 92, 98. O'Keefe, J. A., 1959 Mar. p. 61. O'Keefe, John, 1977 June p. 89, 92, 93, 96, 98. O'Keeffe, Mary, 1965 Mar. p. 89. Okellus, 1949 Apr. p. 44. Oken, Donald E., 1962 Aug. p. 100. Oklahoma Mining and Agricultural College, 1957 Feb. p. 58. Oklahoma State University, 1958 July p. 52; 1971 Sept. p. 157. Okochi, K., 1977 July p. 44. Okotie-Eboh, Festus S., 1963 Sept. p. 169. Okrent, David, 1976 June p. 48. Okubo, Susumu, 1964 Apr. p. 61. Okunuki, Kazuo, 1972 Apr. p. 67. Olaf, King, 1967 May p. 73, 75, 76. Olaf, Saint, 1967 July p. 44. Olbers, Heinrich W. M., 1954 Mar. p. 55-57; 1965 Apr. p. 115; Oct. p. 29; 1974 Aug. p. 26. Olconius, 1958 Apr. p. 71. Olcott, William T., 1949 Dec. p. 53. Old, B. S., 1948 May p. 57. Old, Donald, 1966 Apr. p. 107. Old, Lloyd J., 1973 Oct. p. 32; 1974 Nov. p. 63; 1976 May p. 37; 1977 May p. 62; Oct. p. 97. Old, William D., 1954 Dec. p. 42, 43. Oldenburg, Henry, 1954 Dec. p. 95, 97; 1967 Aug p. 98; 1968 May p. 98. Oldham, R. D., 1955 Sept. p. 56, 57; 1973 Mar.

p. 24. Oldham, William G., 1977 Sept. p. 68, 111, 135. Olds, Elizabeth, 1949 Dec. p. 57. Olds, James, 1956 June p. 55; Oct. p. 72; Nov. p. 109; 1957 Jan. p. 56; Feb. p. 58; 1958 Jan. p. 78; 1964 June p. 60; 1971 Nov. p. 48. Olds, Leland, 1951 Nov. p. 20. Olds, R. E., 1973 Mar. p. 88. Oldstone, Michael B. A., 1973 Jan. p. 28; 1974 Feb. p. 37. O'Leary, B. T., 1965 Aug. p. 26. O'Leary, Brian, 1975 Sept. p. 144. Olesen, P., 1976 Nov. p. 58. Olins, Ada L., 1975 July p. 48. Olins, Donald E., 1975 July p. 48. Oliphant, Marcus L. E., 1949 Nov. p. 42, 43; 1951 Feb. p. 23; 1957 Sept. p. 106, 107. Olive, Edgar, 1949 June p. 44. Oliver, Bernard M., 1968 Mar. p. 103; 1974 Jan. p. 52; 1975 May p. 86; 1977 Sept. p. 180; Dec. Oliver, Douglas, 1950 Sept. p. 88. Oliver, Edward J., 1962 Sept. p. 135. Oliver, Francis W., 1978 Feb. p. 104. Oliver, Jack, 1960 Aug. p. 77; 1962 July p. 57; 1965 Nov. p. 30, 36. Olivera, Baldomero M., 1968 Oct. p. 75. Olivetti, S.p.A., 1978 Feb. p. 70. Ollis, W. D., 1954 Dec. p. 58. Olmo, Harold P., 1974 June p. 115. Olmstead, David L., 1971 May p. 46. O'Loughlin, J. L. N., 1952 Apr. p. 44. Olsen, G. J., 1969 Nov. p. 45 Olsen, Jorgen L., 1971 Apr. p. 87, 92. Olsen, Kai, 1972 July p. 99. Olsen, Karl M., 1954 July p. 39; 1962 June p. 65. Olsen, Kenneth H., 1973 Oct. p. 75. Olsen, Marlow W., 1956 May p. 64; 1961 Feb. p. 72. Olsen, Sigurd, 1967 Jan. p. 44, 47, 48, 51, 52. Olsen, Steinar, 1965 Nov. p. 109, 110. Olshansky, Phyllis, 1974 Jan. p. 80. Olson, Erik, 1963 Dec. p. 76, 83. Olson, Harry F., 1961 Aug. p. 76. Olson, John M., 1970 Sept. p. 114. Olson, Loren K., 1961 May p. 74. Olton, David S., 1977 June p. 82. O'Maeley, Bert W., 1972 Mar. p. 42. O'Mahoney, Joseph C., 1949 July p. 26. O'Malley, Bert W., 1976 July p. 49. Omar Khayyam, 1949 Jan. p. 42, 44; 1969 Nov. Omnidata Services, Inc., 1966 Sept. p. 180. Oncley, John L., 1951 June p. 50; 1974 Feb. Onderdonk, Andrew B., 1978 Jan. p. 91, 94. O'Neill, Gerard K., 1962 Aug. p. 36; 1963 Mar. p. 69; 1966 Nov. p. 107, 110, 114; 1967 Oct. p. 40; 1975 June p. 54. O'Neill, Lawrence H., 1957 Oct. p. 57. O'Neill, Mary, 1973 Mar. p. 28. O'Neill, William L., 1974 Sept. p. 137, 139. Onetor, 1963 June p. 115. Onias III, 1973 Jan. p. 85. O'Nions, R. K., 1977 Mar. p. 99, 100. Onnard, C. E., 1976 Feb. p. 54B. Onnes, Heike, see: Kamerlingh Onnes, Heike. Onondaga Indian Reservation, 1971 Feb p. 42. Onsager, Lars, 1948 Oct. p. 17; 1956 Aug. p. 108; 1958 June p. 34; 1966 Dec. p. 122, 124; 1968 Dec. p. 48; 1973 May p. 33, 37; 1977 Dec. p. 82. Onslow, Muriel W., 1964 June p. 85. Ontario Cancer Institute, 1977 Jan. p. 50 Ontario Hydroelectric Commission, 1964 May p. 40; 1975 July p. 45; Oct. p. 17, 20. Ontario Provencial Government, 1961 June

Offa of Mercia, King, 1966 Feb. p. 106.

p 153 Ontano Royal Museum, 1964 Apr p 94, 1965 Ontario Veterinary College, 1966 June p 100 Onyango-Abuje, J., 1978 Apr p 96 Ooi, Tatsuo, 1975 Nov p 44 Oort, Abraham H, 1964 Mar p 69, 1970 Sept p 54, 64 Oort, Jan H., 1948 May p 36, 1950 Feb p 35, 1951 July p 22, 23, 1953 Dec p 46, 1954 July p 32, Sept. p 138, 1955 May p 46, 47, Nov p 73, 1956 Jan p 48, Feb p 39, 1957 Mar p 53, 1958 Apr p 35, Oct p 44, 1959 Dec p 95, 103, 1960 June p 86, 1961 Feb p 54, Dec p 76, 1962 Mar p 44, 1964 Aug p 14, 1967 Oct p 111, 1971 July p 77, 1974 Feb p 54, 56, Apr p 70, 1975 Aug p 29, Sept p 40, 41, Oct p 56 Oparin, A. I., 1954 Aug p 45, 51, 1958 Sept p 100, 1962 Nov p 49, 1967 Jan p 42, 1971 May p 30, 1972 June p 41, 45 Opdycke, Leonard Jr, 1952 Apr p 86 Opdyke, Neil D, 1967 Feb p 53, 54, July p 33, 1968 Apr p 57 OPEC, see Organization of Petroleum **Exporting Countries** Operations Research Society of America, 1953 Jan p 32, 1971 Nov p 48 Opfinger, Elizabeth, 1955 Aug p 60 Opik, Ernst, 1951 July p 22, 1953 May p 72, 1964 Feb p 50, 51, 55, 1965 Oct p 26, 36, 1966 Apr p 67, 1975 Jan p 25, Sept p 156 Opler, Marvin K., 1962 Aug p 72 Opler, Paul, 1973 Apr p 97 Oponnus, 1948 May p 29 Oppenheim, A Leo, 1978 June p 52 Oppenheim, Leo A, 1963 Nov p 125 Oppenheimer, Carl H, 1961 Aug p 45 Oppenheimer, Ella H, 1977 June p 104 Oppenheimer, Frank, 1949 Mar p 34, 1950 Oct p 15 Oppenheimer, J Robert, 1948'June p 27, Sept p 28, Oct p 25, 1949 Mar p 35, July p 28, 39, 42, 43, 1950 Mar p 13, 14, June p 12, Sept p 21, 1951 May p 36, June p 31, 1953 Apr p 44, 1954 Mar p 33, June p 44, July p 42, Aug. p 36, Dec p 52, 1955 May p 54, 1964 June p 38, 1965 Dec p 39, 1966 Oct p 44, 1967 Nov p 90, 1969 June p 23, 1970 Apr p 57, 1971 Jan p 50, 1972 May p 38, 39, 1973 Dec p 55, 1975 Oct p 107-112, 1977 Oct p 48 Oppenheimer, Valerie K., 1974 Sept p 141, 143 Oppers, V M, 1968 Jan p 25 Oppers, Victor, 1973 Sept p 42 Oppert, Jules, 1957 Oct p 71, 72 Optel Corporation, 1973 June p 71 Optical Coating Laboratory, 1976 Aug. p 80 Optical Society of America, 1948 Sept p 29, 1949 Feb p 29, 1976 Oct p 93 Optics Technology Incorporated, 1963 July p 42 Optniker, Jeremiah P. 1971 Jan p 48 Orbach, Jack, 1955 Feb p 74 Orbach, Ruth, 1955 Feb p 74 Orci, Lelio, 1978 May p. 144, 145 Ord, Munel, 1952 Apr p 59, 1959 Sept p 96 Ordal, George W, 1976 Apr p 44 Ordstrand, Howard S van, 1958 Aug. p 29 Orear, Jay 1960 Apr p 82 Oregon Regional Primate Research Center, 1976 Oct p 96-98 Oregon State University, 1967 Apr p 52, 1978 Feb p 57 O Reilly, J., 1950 Jan p 45 O Railly, Naville, 1974 Oct. p. 82 Orekhovich, V. N., 1961 May p. 122

Orellana, 1948 May p 12, 13 Oresme, Nicole, 1949 Jan p 42, 43, 45, 1959 Oct p 163, 1966 Oct p 88, 1973 May p 85 Organization for Comparative Social Research, 1961 Dec p 47 Organization for Economic Cooperation and Development, 1966 July p 49, 1968 Mar p 48, 1969 Apr p 48, June p 19, 1970 Aug p 56, 1971 Aug p 44, 1974 Jan p 50, 1976 Sept p 204, 1978 Apr p 50 Organization of African Unity, 1975 Nov p 30 Organization of Petroleum Exporting Countries, 1974 July p 47, 1976 Sept p 44, 48, 204, 1977 May p 53, 1978 Mar p 45-49 Orgel, Leshe E, 1959 Dec p 58, 1968 Mar p 37, 1973 Oct p 51 Orians, Gordon H, 1970 July p 48 Original Plastic Bike Co, The, 1973 May p 43 Ormoco Mining Company, 1965 Sept p 123, 129 Orkin, Philip A, 1957 Dec p 119 Orland, Frank J, 1957 Dec p 112 Orlando, A., 1960 Aug p 141 Orlanski, Isidoro, 1970 July p 80 Orleans, Cherubin d', 1963 Apr p 132, 137 Orleans, Duc d', 1976 Jan p 115 Orleans, Leo A, 1973 Nov p 50 Orlovsku, G N, 1976 Dec p 74 Orme-Johnson, William H, 1977 Mar p 73 Ormerod, M G, 1970 Aug p 76 Ormiston, Kenneth G, 1969 Feb p 21 Ornstein, Leonard, 1964 Aug p 79, 1972 June p 33 Ornstein, Severo, 1973 Apr p 44 Oro, Juan, 1972 June p 43, 45, Oct p 87 Orosius, Paulus, 1953 Oct p 88 Orowan, Egon, 1955 July p 80, 81, 1958 June p 81, 1961 Oct p 107, 1963 Aug p 72, 1968 Apr p 62, 1975 Apr p 117 Orrall, Frank Q, 1973 Oct p 75 Orsini, Margaret W, 1963 Jan p 127 Ortho Research Foundation, 1966 June p 56 Orton, Glenn S, 1976 Mar p 52 Orton, Samuel T, 1971 Mar p 100 Orvieto, Ugolino d', 1967 Dec p 97 Orville, Howard T, 1954 Feb p 47 Orwell, George, 1953 Dec p 37, 1958 Sept p 104 Osaki, Shigemasa, 1968 May p 111 Osawa, S., 1969 Oct p 35 Osborn, Fairfield, 1950 Aug. p 11 Osborn, Frederick, 1949 Jan p 28, Dec p 26 Osborn, Henry F, 1956 June p 97, 1959 May p 61, 1969 Mar p 54 Osborne, D W, 1949 June p 37, 1958 June Osborne, Thomas B, 1950 June p 35, 1971 Aug. p 35 Osborne, W. Zack, 1975 Oct. p. 52 Oscar II, King, 1949 Dec p 13 Oscarsson, Olov, 1975 Jan p 65 Oschenfeld, R., 1965 Oct p 57, 58 Oseen, C W, 1964 Aug. p 79 Oserezki, N I 1953 Oct. p 60 Osgood Edwin B, 1969 Dec p 34, 35 Osgood, Edwin E., 1963 July p 56 O Shaughnessy, Laurence F, 1968 Oct p 36 Osheroff, Douglas D. 1974 Dec p 66, 1976 Dec. p 67 Oshman, M. K., 1968 Sept. p. 134 Osiander, Andreas, 1966 Oct p 88, 1973 Dec p 97-99 Osiecki, J. H., 1971 Nov. p. 30-32. B P, 1963 Nov p 53 in, V. 1964 Aug. p. 14 thriham G. 1973 Nov p 61, 65 Villiam, Sir. 1948 May p 25, 1949 Jan

p 53, 1961 Sept p 53, 1967 Jan p 116, 1973 Sept p 56 Osokina, D N, 1961 Feb p 106 Ostenso, Ned A., 1960 Mar p 86, 1962 Sept Oster, Gerald, 1954 Nov p 50, 1957 Sept p 139, 1968 Sept. p 176, 1970 Feb p 83, 1974 Mar p 45 Osterbrock, Donald E., 1955 May p 46, 1959 Dec p 94, 1963 Jan p 76, 1965 Feb p 94, 96, 100 Osterburg, James W, 1953 Feb p 58 Osterhout, Suydam, 1961 Sept p 75 Osterman, Justus, 1963 Nov p 137 Ostrach, Simon, 1964 Feb p 56 Ostriker, Jeremiah P, 1968 Oct p 34, 1971 Feb p 24, 1973 Feb p 101, 1977 Oct p 51, 53 Ostroff, Eugene, 1966 Dec p 65 Ostrom, John A., 1975 Apr p 70, 71 Ostrom, John H, 1973 Aug. p 44 Ostwald, Wilhelm, 1949 Dec p 15, 35, 1952 Nov p 32, 1955 July p 72, 1967 Nov p 26, 33, 1969 Mar p 68 O'Sullivan, A., 1969 June p 38 O'Sullivan, Cornelius, 1959 Aug p 120 O'Sullivan, D, 1969 Feb p 53 Oswald, Victor A, 1956 Jan p 30 Ons, R. M., 1949 Mar p 30 Ott, Hugh H, 1967 June p 26 Otten, Jack, 1972 Aug p 105 Ottinger, Richard L, 1976 June p 24 Otto, Ditmar, 1974 Aug p 35 Otto, John, 1965 Aug. p 88 Otto, Nicolaus A, 1949 Dec p 35, 1950 Feb p 17, 1967 Mar p 102-110, 112, 1969 Feb p 90, 93, Aug. p 111, 112, 115, 116, 1972 May p 102, Aug. p 14, 16, 23 Ottolenghi, Elena, 1969 Jan p 41 Ottolenghi, Michael, 1977 July p 96 Ouchterlony, Orjan, 1960 Mar p 131, 133, 134, 136, 1977 July p 46 Oudin, Jacques, 1960 Mar p 131, 133, 134, 1970 Aug p 41, 1973 July p 55, 58 Oura, Hikokichi, 1964 Mar p 55 Outboard Marine Corporation, 1972 Aug p 16, 17 Ovdath, King, 1956 Apr p 42 Over, Ray F, 1976 Dec p 45 Overath, Peter, 1972 Feb p 37 Overbeek, J T G, 1958 Mar p 122 Overbeek, J van, 1949 May p 42, 1952 May p 55, 1957 Apr p 126 Overberger, Charles G, 1955 Oct. p 48 Overhauser, Albert W, 1966 July p 74, 1976 Jan. p 61 Overholser, Winfred, 1974 June p 20 Overseas Development Council, 1976 Sept Overseth, Oliver E., 1975 Dec p 58 Overton, E., 1957 Jan p 75, 1958 Dec p 87 Ovid, 1973 Apr p 88 Ovshinsky, Stanford R., 1968 Feb p 52, 1969 Nov p 30, 32, 33, 37, 1972 Mar p 40, 1977 May p 36, 40-42, 44-47 Ovtsin, 1961 May p 89 Owen, David I, 1971 Apr p 53 Owen, George, 1967 Nov p 110 Owen, John J T, 1974 Nov p 64, 67, 69, 1976 May p 33 Owen, Oliver E., 1971 Oct p 17 Owen, Ray D. 1957 Apr p 64, 1959 July p 67, 1966 Nov p 65, 1972 June p 30, 1973 July p 55 Owen, Richard, Sir, 1949 Mar p 40, 1954 Feb p 85, 1956 Feb p 62, June p 92, 95, 98, 1959 Aug. p 103, 1961 Apr p 56 Oven, Tobias C, 1977 July p 38

Owens, Albert H Jr, 1974 Apr p 43
Owens, Ella U, 1952 Aug p 52, 1955 Dec p 40, 1977 June p 100, 101
Owens, L D, 1969 July p 54.
Owens, Wayne, 1974 Oct p 55
Owens, William, 1955 Dec p 40
Owens, William C, 1977 June p 100, 101, 103
Owens-Corning Fiberglass Corporation, 1961
Jan p 101, 1962 Jan p 124
Oxley, C L, 1960 Mar p 108
Oyama, Vance I, 1972 Oct p 84, 1977 Nov p 58
Ozaki, M, 1969 Oct p 33
Ozernoi, Leonid, 1970 June p. 34
Ozguc, Tahsin, 1971 June p 110

P

Paál, A, 1949 May p 40 Pacchiani, 1960 June p 109, 110 Pace, Nello, 1956 Mar p 34, 1970 Feb p 53 Pacheco, Anthony L, 1973 Mar p 95 Pacific Gas and Electric Company, 1953 July p 40; 1958 May p 58, 1972 Jan p. 71 Pacific Power and Light Company, 1973 Dec Pacific Science Center, 1965 Nov p 48 Pacini, Franco, 1971 Jan p 52, 56, 1976 Oct p. 78 Pacinotti, Antonio, 1961 May p 116 Packard, A S, 1955 May p 101 Packard, Charles, 1949 Sept p 15 Packard, David, 1969 Aug p 18-21, 25, 28 Packard, Martin, 1948 Sept p 23, 1958 Aug p 62, 63 Packard, Vance, 1958 June p 29, 1971 Nov Packer, D M, 1959 June p 55 Paczynski, Bogdan, 1975 Mar p 29, 30 Paddock, Charles, 1976 June p 118 Paddock, Franklin, 1969 Mar p 52 Paddock, John, 1967 June p 45 Paderewski, Ignace J., 1949 June p 50 Padgett, Billie L, 1974 Feb p 35 Padgett, George A, 1967 Jan p 115, 116 Padilla, S G, 1950 July p 16 Padlan, Eduardo A, 1977 Jan p 53 Paffanhofer, G A, 1976 July p 100 Paffenhofer, G A, 1975 Mar p 80 Paganelli, Charles V, 1960 Dec p 149, 1968 Aug p 68. Paganini, Nicolo, 1949 Oct p 31 Page, Charles G, 1971 May p 81, 82 Page, Don N , 1977 Jan p 39 Page, Irvine H, 1957 Dec p 52, 1958 Feb p 44; 1961 Feb p 74, 1962 Mar p 65, 1965 Oct p 84, 1967 Feb p 67, 1974 Feb p 84 Page, John, 1974 Dec p 40 Page, Sally G, 1965 Dec p 26 Page, Thornton, 1963 Jan p 78 Pagenstecher, Johann S, 1963 Nov p 96, 97 Paget, Richard, 1972 Feb p 48 Paget, Stephen, 1950 Jan p 14, 1955 June p 71, 1965 Aug p 89 Pain, Janine, 1972 Apr p 96 Paine, I O, 1957 Jan p 62 Paine, Thomas, 1959 Feb p 73, May p 63 Painter, T S, 1961 Nov. p 68, 1964 Apr p 50 Painter, William, 1972 Dec p 89 Pais, Abraham, 1957 July p 82, 1965 Mar p 53; 1976 Jan p 53 Paivarinta, Pekka, 1976 June p 110, 111 Pak, William L, 1973 Dec p 28 Pake, George E., 1963 June p 67, 1965 Apr p 66, 1970 Aug p 73

Pakiser, L C, 1963 Oct p 56 Pakistan Department of Archeology, 1966 May Pakistan-SEATO Cholera Research Laboratory, 1971 Aug p 20 Pakter, Jean, 1971 Oct p 42 Pakula, Roman, 1969 Jan p 44 Pal, Yash, 1973 Nov p 43 Palacio, Joseph O, 1977 Mar p 117 Palade, George E, 1953 Nov p 80, 81, 1954 Jan p 33, 1957 July p 131, 132, 137, 1958 Mar p 118, Sept p 137, 1959 Dec p 55, 1960 Feb p 51, 1961 Sept p 57, 64, 79, 1962 Apr p 71, 1965 Jan p 70, Oct p, 1969 Feb p 103, Mar p 39, June p 46, 1972 Feb p 38, 1974 Dec p 56, 1975 Oct p 31, 1978 May p 141 Palay, Sanford L , 1958 Sept p 137, 1962 Apr p 71, 1975 Jan p 61 Paleg, L. G, 1968 July p 79 Palerm, Angel, 1964 July p 98 Palestrina, Giovanni, 1959 Dec p 112, 113 Palevitz, B A, 1975 Apr p 80 Paley, William S, 1952 Sept p 70 Palfrey, John G, 1962 Sept p 100, 1964 May p 60 Palissy, Bernard, 1950 Nov p 16 Palka, John M, 1974 Aug p 44 Palladu, Archimandrite, 1963 Aug p 56 Palladio, Andrea, 1954 Nov p 63, 1961 Feb p 123, 1967 Dec p 97 Pallas, Peter S, 1967 Jan p 79 Pallottino, Massimo, 1962 Feb p 87 Palm, Theobald, 1970 Dec p 79, 89 Palmen, Erik H, 1952 Oct p 29, 1955 Sept p 117, 120, 122, 1970 Sept p 63 Palmer, Carroll E, 1948 June p 13, 14, 1955 Jan p 44 Palmer, H E, 1967 Mar p 29 Palmer, H P, 1961 Feb p 76, 1963 Dec p 56 Palmer, J F, 1970 May p 84 Palmer, Patrick, 1968 Dec p 43, 1969 May p 54, 1973 Mar p 60, 1974 May p 110 Palmer, Samuel, 1958 Sept p 166 Palo Alto Medical Research Foundation, 1963 July p 42, 1973 Sept p 132, 1977 May p 76 Palsson, Pall A, 1967 Jan p 113 Palumbo, G G C, 1976 Oct p 70 P'An, S Y, 1955 Aug p 49 Pan-American Health Organization, 1962 May p 93, 96, 1975 Feb p 19, Oct p 53 Pan-American Sanitary Bureau, 1948 Aug p 31, 1962 May p 90, 1976 Oct p 28 Pan-American Union, 1964 July p 98 Pan-American World Airways, Inc., 1968 Oct p 85, 86, 1970 Mar p 84, 86 Paneth, F A, 1948 May p 35, 1949 Jan p 33, 1950 Apr p 44, 1953 Dec p 75, 1954 Nov p 39-41, 1957 Apr p 89, 1960 Nov p 172 173, 1973 July p 67 Panhard, Rene, 1972 May p 102 Panini, 1958 Oct p 66 Panish, Morton B, 1970 Oct p 54, 1971 July p 32, 1973 Nov p 33 Panitz, John A., 1968 Mar p 53 Pankhurst, R. J., 1977 Mar p 98, 99, 101 Panofsky, Erwin, 1974 Sept p 53 Panofsky, Hans A, 1976 Mar p 50, 51 Panofsky, Wolfgang K H, 1958 Mar p 67, 1960 Jan p 70, 1961 Nov p 49, 1966 Nov p 111, 1969 Aug p. 21, 1971 June p 61, Nov p 48, 1975 June p 52, Sept p 53 Panousis, Peter, 1963 July p 118 Pansky, Ben, 1963 Jan p 127 Pantin, C F A., 1962 Feb p 115 Pantle, Allen, 1977 Jan p 72 Pantindge, J F. 1968 July p 26

Pao, Yen-Ching, 1975 Oct p 67 Paoincare, Henri, 1958 Sept p 130 Paoletti, E., 1972 Jan p 29 Paolillo, D J., 1974 Dec p 70 Paolini, Frank R, 1963 Aug p 34, Dec p 67, 1964 June p 36, 1967 Dec p 37 Papadimitriou, Christos H, 1978 Jan p 96, Mar p 128 Papadimitriou, John, 1954 Dec p 74, 75, 1963 Junep 111 Papaliolios, C D, 1971 Jan p 51 Papanastassiou, Dimitri A , 1974 July p 47, 1975 Jan p 31 Papenfuss, Émma, 1957 Dec p 120, 122 Papermaster, Ben, 1966 Feb p 90 Papert, Seymour A, 1975 Apr p 34, 35 Papez, James W, 1956 Oct p 106, 1964 June p 66, 67 Papi, Floriano, 1954 Oct p 76, 78, 1974 Dec p 104 Papin, Denis, 1964 Jan p 100, 103, 1970 Aug p 97, Oct p 117 Pappas, George D, 1959 Jan p 54, 1961 Apr p 120, 126, 126, 128, Sept p 59, 64, 1962 Pappenheimer, Alwin Jr, 1960 Apr p 131, 1970 Dec p 88 Pappenheimer, John R, 1960 Dec p 149, 155, 1967 Oct p 56 Pappus, 1949 Jan p 42, 44 Papworth, Neil, 1976 Aug p 60 Paracelsus, Philippus A, 1949 May p 16, 1952 Oct p 76, 1956 Jan p , 1965 Feb p 80, 1967 Sept p 73, 1969 Jan p 130, 1973 Apr Paramount Pictures Corporation, 1951 Nov p 33 Paraskevopoulos, John S, 1952 July p 47, 48, 1964 Jan p 36 Pardee, Arthur B, 1957 Feb p 67, 1962 Jan p 81, 1965 Apr p 38, 40, 45 Pardi, L., 1954 Oct p 76, 78 Pardies, Father, 1955 Dec p 76 Pardue, Mary Lou, 1973 Aug p 29 Pare, Ambroise, 1951 Mar p 42, 1956 Jan p 90-92, 94, 96, 1961 Feb p 46, 1964 Feb p 116 Pare, Jacqueline R., 1956 Jan p 94 Pare, Jeanne M, 1956 Jan p 91 Parenago, P P, 1949 Dec p 20, 1958 Nov p 48, 1959 July p 48, 1965 Feb p 101 Parent, Antoine, 1971 Oct p 96 Parent, Robert J, 1969 Sept p 77 Parent-Teacher Association, 1956 Jan p 45 Pareto Vilfredo 1951 Oct p 15 Parham, R A , 1974 Apr p 53 Parijsky, Yuri N 1970 June p 33 Paris, Matthew, 1963 Aug p 55 Park, C R, 1958 May p 104 Park Chan M, 1969 July p 87 Park, Edwards A 1949 June p 14 1970 Dec p 82, 88 Park, James T 1957 Mar p 70, 1969 May p 97 98 Park John H 1969 Jan p 46 Park, Julian 1963 Mar p 118 124 Park Kwangjai 1964 Apr p 46 Park, Mark, 1971 May p 106 Park, Mungo 1962 May p 86 Park Robert A 1963 July p 74 Park, Roderick B 1965 July p 75 83 Park, Roswell, 1963 Mar p 122 124 126 128 130 Park, Stephen K., 1978 Mar. p. 87 Park, Thom is 1960 Feb p 66 Park, William, 1952 Oct p 34 Parke, Davis and Company 1949 Aug. p. 32

1962 Aug. p. 114, 117; 1963 Nov. p. 104, 106. Parker, Bruce C., 1968 Oct. p. 60. Parker, D. M., 1966 Mar. p. 107. Parker, E. N., 1965 Mar. p. 58; Dec. p. 58; 1975 Mar. p. 49; Sept. p. 164. Parker, Earl R., 1955 July p. 86; 1958 Apr. p. 50; 1968 Nov. p. 36. Parker, Frank W., 1965 Jan. p. 51; 1966 Aug. Parker, George H., 1962 July p. 64; 1971 May p. 99. Parker, George W., 1950 Apr. p. 43; 1956 May Parker, Harley, 1968 Aug. p. 92. Parker, James W., 1949 Feb. p. 28. Parker, John, 1953 July p. 59. Parker, K. D., 1968 June p. 105. Parker, Marion, 1952 May p. 53. Parker, Marion L., 1972 May p. 100. Parker, Marion W., 1960 Dec. p. 56. Parker, Peter D., 1969 July p. 36. Parker, Travis J., 1961 Feb. p. 98. Parker, William H., 1970 Oct. p. 62. Parkes Observatory, 1966 June p. 31. Parkin, Curtis W., 1971 Aug. p. 63. Parkin, David T., 1975 Aug. p. 59. Parkinson, C. N., 1951 Oct. p. 57; 1958 Sept. p. 172. Parkinson, James, 1970 July p. 40. Parkinson, John S. Jr., 1976 Apr. p. 41. Parkinson, Truman B., 1977 July p. 39. Parkinson, William A., 1973 Oct. p. 74. Parkman, Paul D., 1966 June p. 55; July p. 32, 37; 1969 June p. 54. Park-Ross, G. A., 1962 May p. 89. Parks, John, 1972 Aug. p. 101. Parks, Perry, 1962 Sept. p. 163. Parks, R. D., 1971 Mar. p. 75. Parlov, Ivan, 1950 Nov. p. 22. Parmenides, 1971 Mar. p. 50. Parnas, Jakob, 1962 June p. 96. Parnell, R. W., 1954 Nov. p. 52. Parpart, Arthur K., 1957 Jan. p. 97. Parpola, Asko, 1969 Nov. p. 62. Parpola, Simo, 1969 Nov. p. 62. Parr, Albert E., 1956 Jan. p. 101, 102; 1962 June p. 134. Parrent, George Jr., 1965 June p. 35; 1968 Feb. p. 43. Parrish, John A., 1975 July p. 73. Parrish, R. G., 1961 Dec. p. 109. Parry, Albert, 1965 Mar. p. 57. Parry, David A. D., 1975 Nov. p. 40. Parry, H. B., 1956 Dec. p. 62. Party, J. V. L., 1956 Feb. p. 50; 1957 Feb. p. 76. Parry, William, Sir, 1978 Apr. p. 148. Parsignault, D. R., 1976 Aug. p. 44B. Parsons, Charles A., 1955 Nov. p. 44; 1969 Apr. p. 101, 104, 105. Parsons, Clifford G., 1962 Aug. p. 34. Parsons, Donald F., 1968 Feb. p. 35. Parsons, James J., 1965 May p. 80, 81. Parsons, John, 1969 Feb. p. 22. Parsons, William, 1953 Sept. p. 90; 1965 Aug. p. 23; 1973 June p. 30. Parsons, William B., 1971 Feb. p. 101. Partridge, Robert B., 1967 May p. 54; June p. 28; 1969 Apr. p. 50; 1970 June p. 34; 1973 Oct. p. 48; 1978 May p. 69. Partridge, S. M., 1951 Mar. p. 41; 1971 June Pasadena Foundation for Medical Research, 1970 Feb. p. 100. Pascal, Blaise, 1950 May p. 20; Oct. p. 44; 1955 Jan. p. 82, 83, 85, 86; Feb. p. 80; 1959 Oct. p. 160, 173, 66; 1964 Jan. p. 100; Sept. p. 203, 204, 92; 1966 Sept. p. 67; 1967 Aug p. 99;

1968 May p. 97; 1972 June p. 80; 1976 Apr. p. 104, 113. Pascual, Camilo, 1959 May p. 73. Pashley, D. W., 1967 Sept. p. 96. Pasik, Pedro, 1972 Dec. p. 75. Pasik, Tauba, 1972 Dec. p. 75. Pasqualini, Gioacchino, 1962 Nov. p. 87. Pastan, Ira, 1973 Oct. p. 54; 1974 June p. 62. Pasternak, Gavril W., 1977 Mar. p. 46, 50. Pasteur Institute, 1959 Mar. p. 65; July p. 67; 1960 Nov. p. 108; 1963 Mar. p. 83, 84; Nov. p. 106; 1964 Mar. p. 36, 44; Nov. p. 76; 1965 Apr. p. 36, 38, 39, 45; 1969 Apr. p. 35; 1970 June p. 36, 43; 1976 Dec. p. 103; 1977 Feb. p. 111-113. Pasteur Institute of Tunis, 1964 Jan. p. 80. Pasteur, Louis, 1948 Oct. p. 21; Dec. p. 30, 31, 33; 1949 July p. 16; Aug. p. 27-29; 1950 Sept. p. 32, 63; Nov. p. 45; 1951 Feb. p. 48; May p. 43; 1952 Jan. p. 68; Aug. p. 63; Oct. p. 32; 1953 Mar. p. 54; Apr. p. 85; 1954 Feb. p. 32, 34; Aug. p. 45, 46, 68; 1955 May p. 31; Oct. p. 38; 1956 Aug. p. 97; 1957 Nov. p. 48; Dec. p. 110; 1958 Sept. p. 100, 102; 1959 June p. 90, 96; 1960 Feb. p. 140, 142; Nov. p. 63; 1961 Aug. p. 33; 1962 Mar. p. 117; Nov. p. 48; 1963 Mar. p. 122; 1964 July p. 78; Aug. p. 46; 1965 Jan. p. 52; 1966 July p. 57; 1967 Jan. p. 111; 1968 Oct. p. 64; 1970 Sept. p. 113; 1972 Dec. p. 91, 93; 1973 Sept. p. 105, 106, 129; Oct. p. 26. Pastore, Annibale, 1952 Mar. p. 70. Pastore, John O., 1954 Nov. p. 35. Pastore, Nicholas, 1968 June p. 68. Pastori, Tullio, 1970 Feb. p. 34. Pate, John S., 1978 Feb. p. 107. Patel, C. K. N., 1963 July p. 38; 1965 Apr. p. 58; 1968 Sept. p. 129. Patel, M. D., 1964 Nov. p. 53, 54. Patel, V. L., 1965 Mar. p. 65. Paterson, Mabel, 1958 Dec. p. 37, 38. Paterson (N.J.) City Traffic Dept., 1970 Feb. Pathania, N. S., 1958 Nov. p. 56. Patlach, A., 1961 July p. 51. Patnaik, B., 1952 Aug. p. 40; 1956 Dec. p. 52. Patnode, Winton, 1948 Oct. p. 51. Paton, Gillian, 1967 Nov. p. 70. Paton, Noel, 1970 Dec. p. 80. Patrick, A. J. R., 1975 Aug. p. 94. Patrick, J. C., 1956 Nov. p. 79. Patrick, Thomas E., 1974 Nov. p. 96. Patston, G. E., 1964 Aug. p. 19. Patt, Harvey M., 1960 Apr. p. 153. Patten, Bradley M., 1959 Mar. p. 90, 96; 1967 Mar. p. 35. Patten, David, 1972 Apr. p. 76. Patterson, Bryan, 1967 Mar. p. 52; 1969 June p. 56; 1971 Apr. p. 52; 1976 Feb. p. 54B. Patterson, Claire C., 1954 Jan. p. 42; 1957 Apr. p. 83, 89, 90; 1966 May p. 42; 1971 Feb. p. 23. Patterson, John L. Jr., 1974 Nov. p. 96. Patterson, John T., 1950 Jan. p. 33; 1951 June p. 32. Patterson, John W., 1978 Apr. p. 78. Patterson, Robert, 1978 May p. 114, 116. Patterson, Thomas C., 1965 Oct. p. 68; 1967 Nov. p. 46, 49; 1971 Apr. p. 45. Patterson, Thomas N. L., 1964 Apr. p. 75. Pattison, I. H., 1967 Jan. p. 113 Pattle, Richard, 1973 Apr. p. 79. Patton, H. D., 1948 Oct. p. 34. Patton, H. P., 1967 June p. 26. Patton, Melvin, 1952 Aug. p. 52, 54. Patton, Robert G., 1972 July p. 78, 79, 82. Patton, Stuart, 1972 Oct. p. 71. Patuxent Wildlife Research Center, 1970 Apr.

p. 73, 74. Patz, Arnall, 1955 Dec. p. 44; 1977 June p. 103. Paucker, Kurt, 1977 Apr. p. 44. Paul Ehrlich Institute for Vaccines, 1948 July p. 31. Paul, Gordon L., 1967 Mar. p. 84. Paul, Grand Duke of Russia, 1965 Aug. p. 89; 1976 Jan. p. 116. Paul, Hermann, 1973 Dec. p. 110. Paul II, Pope, 1968 Oct. p. 117. Paul, J. H., 1955 Mar. p. 60. Paul, John, 1975 Feb. p. 52, 54. Paul, John R., 1950 Aug. p. 26; 1955 Mar. p. 63; 1965 July p. 93. Paul, K. S., 1969 May p. 66. Paul, Lewis, 1972 Dec. p. 51. Paul, Miles R., 1977 Nov. p. 135. Paul, Robert, 1973 Dec. p. 37; 1974 Aug. p. 42. Paul, Saint, 1949 June p. 43; 1954 Nov. p. 104; 1962 Apr. p. 86; 1964 Jan. p. 56; 1973 Jan. Paul, Vincent de, 1972 Feb. p. 97, 98. Paul, W., 1962 Mar. p. 90; 1965 May p. 72. Paul, William, 1977 May p. 42. Paulet, Pedro, 1968 Dec. p. 95. Pauli, Wolfgang, 1948 June p. 28, 29, 32; 1949 July p. 42; Dec. p. 14, 17; 1950 Sept. p. 30; 1951 Mar. p. 23, 26; 1952 Jan. p. 24-26; Dec. p. 41, 43, 44; 1953 Nov. p. 50; 1954 May p. 87; 1955 Dec. p. 89; 1956 Jan. p. 60; Aug. p. 48; 1957 July p. 74, 76, 83, 88; 1958 Sept. p. 79; 1959 Jan. p. 75, 77; Mar. p. 76; July p. 74-78, 80, 82, 85, 86; 1962 Aug. p. 92; 1963 Mar. p. 60; 1964 Oct. p. 36; 1965 Feb. p. 23; 1966 Feb. p. 40; 1967 June p. 64; Sept. p. 198, 200, 202, 83; Nov. p. 27; 1968 Sept. p. 57; 1969 July p. 29, 78; Aug. p. 73; 1971 Feb. p. 24; 1972 May p. 38; 1973 Aug. p. 30; 1975 June p. 60; Sept. p. 45; 1976 June p. 33; Nov. p. 51; 1977 May p. 37; Oct. p. 47; 1978 Feb. p. 132, 137. Paulikas, G. A., 1967 July p. 83. Paulin, Robert, 1975 July p. 41, 42. Pauling, Crellin, 1967 Feb. p. 42. Pauling, Linus, 1948 Oct. p. 16; 1949 May p. 16, 17, 19, 20; 1950 June p. 37; Sept. p. 21, 32, 34; 1951 Aug. p. 32, 56, 57, 58; 1952 July p. 38; Sept. p. 72; 1953 Sept. p. 100, 102; 1954 June p. 71, 74; Nov. p. 78; Dec. p. 52; 1955 May. p. 54; 1956 Apr. p. 88; Oct. p. 86; 1957 Sept. p. 173; 1958 Jan. p. 68; Dec. p. 53; 1959 Jan. p. 62; 1961 Jan. p. 58; Sept. p. 77; Dec. p. 108; 1962 July p. 84, 88; 1963 Nov. p. 65; Dec. p. 64; 1964 May p. 68; Aug. p. 40; Nov. p. 72; 1965 May p. 115, 116; 1966 June p. 47; July p. 106; Nov. p. 85; Dec. p. 121, 122; 1967 June p. 69, 74; Nov. p. 28; 1968 July p. 65; 1969 Aug. p. 93, 94; 1972 Apr. p. 64; Dec. p. 41; 1974 Sept. p. 81; 1975 Apr. p. 46; Nov. p. 37; 1976 Sept. p. 51; 1978 Feb. p. 76. Pauliny-Toth, Ivan I. K., 1965 Mar. p. 54; 1966 Dec. p. 48; 1969 Jan. p. 36. Paulson, D. N., 1974 Dec. p. 66. Paulus, J. M., 1968 Oct. p. 52. Pauly, H., 1977 Apr. p. 123, 124. Paulze-Lavoisier, Marie A. P., 1956 May p. 85, Pausanias, 1950 Aug. p. 49; 1954 Dec. p. 72. Pauson, P. L., 1973 Dec. p. 50. Paust, Joachim, 1968 July p. 50. Pavan, Clodowaldo, 1961 Sept. p. 130; 1964 Apr. p. 53, 54, Paviour-Smith, Kitty, 1969 Jan. p. 112. Pavlov, Ivan P., 1948 Sept. p. 46; 1949 Sept. p. 44-47; Dec. p. 17, 54; 1950 Mar. p. 39; Sept. p. 71; 1951 Aug. p. 60; Oct. p. 59, 60; 1954 Jan. p. 48, 49, 52-55, 57; 1955 Mar. p.

47; 1958 Jan. p. 78; Sept. p. 60; 1959 Aug. p. 91, 92, 95; 1961 Feb. p. 42; 1963 Feb. p. 55; Apr. p. 118; Nov. p. 43; 1966 June p. 94; Aug. p. 85; 1967 Nov. p. 26; 1969 Dec. p. 104; 1970 Mar. p. 66; 1971 Mar. p. 99, 100; 1976 Dec. p. 79. Pavlovsky, Evgeny N., 1960 May p. 163. Pawley, James, 1972 Jan. p. 54; Sept. p. 35. Pawlik, Kurt, 1963 Mar. p. 98. Pawsey, Joseph L., 1975 Aug. p. 26. Paxton, Hugh C., 1959 June p. 86. Paxton, Joseph, 1955 Mar. p. 44. Payem, Anselme, 1958 Oct. p. 104. Payman, W., 1949 Nov. p. 18. Payne, A. M. M., 1959 Aug. p. 65. Payne, Eugene, 1949 Aug. p. 32. Payne, Frank, 1955 Dec. p. 43. Payne, Jerry A., 1966 Jan. p. 51. Payne, Roger, 1965 Apr. p. 99. Payne-Gaposchkin, Cecilia H., 1956 Apr. p. 57. Peabody Coal Company, 1975 Dec. p. 28, 29. Peabody Museum, 1956 Aug. p. 63. Peabody, Robert S., see: R.S. Peabody Foundation. Peach, P. A., 1962 Oct. p. 47. Peacham, Henry, 1973 Dec. p. 110. Peacock, George, 1952 Apr. p. 66. Peacock, N. J., 1969 Dec. p. 52. Peakall, David B., 1969 Feb. p. 44; 1970 Apr. Peale, Rembrandt, 1960 Oct. p. 159. Peale, Stanton J., 1968 July p. 33; 1975 Sept. Peano, Giuseppe, 1950 Sept. p. 40; Dec. p. 22; 1954 Apr. p. 85; 1964 Sept. p. 57; 1973 Mar. p. 101, 103, 105. Pearce, Dick, 1952 Feb. p. 31. Pearce, Joseph A., 1952 Aug. p. 36. Pearce, Morton L., 1969 Sept. p. 98. Pearl, Raymond, 1950 Apr. p. 58, 59; 1952 July p. 61; 1962 July p. 39. Pearle, David L., 1975 Dec. p. 55. Pearmain, G., 1964 Feb. p. 61. Pearsall, W. H., 1971 July p. 86. Pearse, A. G. E., 1970 Oct. p. 42, 44. Pearse, C. A., 1959 Aug. p. 41. Pearson, A. D., 1969 Nov. p. 32. Pearson, Bradford D., 1962 Aug. p. 106. Pearson, Carl M., 1963 Nov. p. 104. Pearson, Claude E., 1969 Mar. p. 28. Pearson, David, 1973 Sept. p. 32. Pearson, Drew, 1950 Mar. p. 24. Pearson, Egon S., 1977 May p. 122. Pearson, F., 1976 Jan. p. 62. Pearson, Fred, 1955 Aug. p. 63, 66. Pearson, Gerald L., 1973 Aug. p. 50. Pearson, Karl, 1950 Apr. p. 60; 1954 Jan. p. 73, 74, 76; 1964 Sept. p. 146. Pearson, Keir, 1976 Dec. p. 72; 1978 Feb. p. 100. Pearson, Lester B., 1949 Dec. p. 26; 1967 Nov. Pearson, Oliver P., 1950 Mar. p. 35; 1953 Jan. p. 69; 1954 Aug. p. 66; 1955 Mar. p. 96; 1957 Nov. p. 111; 1959 Apr. p. 105. Pearson, Raiph G., 1965 Aug. p. 46. Pearson, T. A., 1977 Feb. p. 82. Peart, W. S., 1959 Mar. p. 56; 1963 June p. 88. Peary, Robert E., 1954 Nov. p. 36; Dec. p. 41, 43; 1961 May p. 91; 1976 Jan. p. 102, 109, 111. Pease, Daniel C., 1958 Oct. p. 43; 1960 Aug. p. 101. Pease, F. G., 1972 Feb. p. 72; 1973 June p. 30. Pease, Francis G., 1955 Aug. p. 63, 66. Pease, Josephine Van Dolzen, 1949 Dec. p. 55,

Pease, Paul L., 1972 June p. 97. Peat, S., 1957 Sept. p. 168. Peay, Austin, 1969 Feb. p. 18. Pechet, Maurice M., 1970 Oct. p. 42; Dec. p. 89. Peck, Charles H., 1975 Mar. p. 93. Peck, Merton, 1967 June p. 23. Peck, N., 1953 Aug. p. 37. Pecker, Charlotte, 1954 June p. 48. Pecora, William T., 1966 Nov. p. 66. Pecora, William, T., 1969 Dec. p. 94. Pecquet, Jean, 1967 Aug p. 99. Pedersen, Charles J., 1977 July p. 98. Pederson, Harry, 1961 Aug. p. 45. Pederson, P. O., 1968 Nov. p. 88, 89. Pederson, Vern, 1961 Aug. p. 45. Pedler, C. M. H., 1962 Nov. p. 121. Pedro II, Dom, 1963 Sept. p. 214. Peebles, Florence, 1957 Dec. p. 120. Peebles, James E., 1977 Nov. p. 76. Peebles, P. J. E., 1965 July p. 46; 1966 May p. 54; 1967 Mar. p. 48; 1968 Feb. p. 79; 1969 Feb. p. 59; Apr. p. 50; 1970 June p. 29, 33, 34; 1974 Jan. p. 70; May p. 108; Aug. p. 29; 1978 May p. 69. Peebles, Thomas C., 1963 May p. 74. Peek, Bertrand M., 1968 Feb. p. 78, 80; 1976 Mar. p. 48, 54, 55. Peel, Robert, Sir, 1952 Jan. p. 29; 1974 June p. 19. Pegg, John H., 1963 Apr. p. 84. Pegram, George B., 1948 Oct. p. 24; 1949 Feb. p. 17. Pehek, John O., 1976 Dec. p. 53. Pehl, Richard, 1969 July p. 52; 1972 Nov. p. 104. Pei, Wen-chung, 1970 Jan. p. 78. Peierls, Ronald E., 1956 Aug. p. 30; 1962 June p. 80; 1973 May p. 30. Peierls, Rudolf E., 1949 Nov. p. 41, 43; 1967 Sept. p. 186-188; 1973 Nov. p. 39. Peimbert, Manuel, 1967 Nov. p. 61. Peirce, Charles S., 1972 Mar. p. 93; Sept. p. 73, 76, 77, 76, 77, 80. Peixoto, José P., 1973 Apr. p. 51, 53, 60. P'ei-Yuan, Chou, 1972 Dec. p. 16. Pekas, Jerome C., 1966 June p. 97. Pekeris, Chaim L., 1955 Sept. p. 132; 1965 Nov. p. 30; 1969 Nov. p. 107. Pelc, C. R., 1958 Nov. p. 56. Pelc, S. R., 1966 June p. 56. Pelikan, Edward W., 1965 June p. 113. Pell, Claiborne, 1968 Apr. p. 42. Pell, E. M., 1962 Oct. p. 83. Pellam, John R., 1949 June p. 30, 34; 1957 Mar. p. 92, 94. Pellas, Paul, 1969 June p. 35. Pellegrino, Michele, 1972 June p. 34, 35. Pelletan, Pierre, 1957 Mar. p. 40. Pelling, Claus, 1964 Apr. p. 54, 55; 1965 June p. 44. Peltier, Jean C. A., 1958 Nov. p. 32, 35; 1961 Dec. p. 126. Pelzer, H., 1966 Nov. p. 88. Pemberton, Henry, 1964 Sept. p. 132. Pempey, Sextus, 1963 Dec. p. 115. Peña, Hornos de la, 1953 Aug. p. 32. Penbharkkul, Saree, 1964 Oct. p. 78. Penefsky, Harvey, 1968 Feb. p. 32; 1978 Mar. p. 113. Penfield, Hayes, 1968 Dec. p. 43. Penfield, Wilder, 1948 Oct. p. 27, 34; 1960 Sept. p. 74; 1961 Oct. p. 135; 1965 Mar. p. 45; 1970 Feb. p. 86; 1977 Oct. p. 139. Peng, H. W., 1949 Mar. p. 36. Pengelley, Eric T., 1968 Mar. p. 115, 118. Pengelly, Eric T., 1971 Apr. p. 72. Pengelly, William, 1959 Nov. p. 172-175.

Penman, H. L., 1970 Sept. p. 99, Penman, Sheldon, 1961 July p. 51; 1963 Dec. p. 51. Penn, Robert D., 1970 May p. 86. Penn, William, 1958 Mar. p. 94; 1967 June Pennak, Robert W., 1959 July p. 98. Pennell, Maynard L., 1964 June p. 34. Penney, Richard L., 1966 Oct. p. 105. Penney, W. G., 1952 Dec. p. 34. Penney, William, Sir, 1960 Jan. p. 70. Penning, F. M., 1973 Feb. p. 94, 95, 97. Pennington, James E., 1971 Feb. p. 47. Pennington, Keith S., 1968 Sept. p. 156. Pennsylvania Agricultural Experiment Station, 1953 Aug. p. 38. Pennsylvania Athletic Commission, 1952 Oct. p. 46. Pennsylvania Electric Company, 1964 May p. 40. Pennsylvania State College, 1949 Nov. p. 46; 1954 May p. 58, 59. Pennsylvania State Medical Society, 1951 Oct. Pennsylvania State University, 1956 Sept. p. 110; 1966 Sept. p. 208; 1970 Feb. p. 52; 1974 Sept. p. 76. Penny, Richard L., 1964 Feb. p. 97. Pennycuick, Colin, 1965 May p. 85, 86. Penrose, Lionel S., 1952 Feb. p. 66; 1956 Dec. p. 127; 1958 Feb. p. 27; 1959 Sept. p. 225 1960 Sept. p. 217; 1962 Aug. p. 66; 1964 Sept. p. 149, 156; 1968 Nov. p. 70, 72; 1974 July p. 101; 1978 Feb. p. 119. Penrose, Roger, 1959 June p. 105; 1967 Nov. p. 97, 98; 1968 Nov. p. 70, 72; 1974 July p. 101; Dec. p. 32. Pense, J., 1976 Apr. p. 91. Penso, Guiseppe, 1965 July p. 97. Penston, M. V., 1968 Aug. p. 59. Penston, Michael, 1976 Dec. p. 92. Penswick, John R., 1965 May p. 48; 1966 Feb. p. 35. Penzias, Arno A., 1965 July p. 31, 45; 1966 May p. 54; Aug. p. 36; 1967 June p. 28, 30, 32; 1969 Feb. p. 59; 1970 June p. 33, 49; 1973 Mar. p. 60; 1974 May p. 112, 113; Aug. p. 29; 1976 Mar. p. 63, 65; 1978 May p. 64, 66. People's Republic of China, 1966 July p. 48; Nov. p. 37; 1969 Apr. p. 17, 20; 1970 Jan. p. 19-21; May p. 24; June p. 46; 1972 Nov. p. 51; Dec. p. 17; 1975 Sept. p. 56; Oct. p. 106; 1977 Jan. p. 21. People's Republic of China Academia Sinica, 1961 Feb. p. 68; 1970 Jan. p. 78; 1978 Feb. People's Republic of Chuna Academy of Sciences, 1966 Nov. p. 47. People's Republic of China Chinchu People's Commune, 1978 Feb. p. 84, 89 People's Republic of China Department of Science and Technology, 1978 June p. 74 People's Republic of China Department of State Science and Technology, 1966 Nov p 39 People's Republic of China Geological Institute. 1977 Apr. p. 39. People's Republic of China Kweyang Institute of Geochemistry, 1978 Feb p 84 People's Republic of China National Institute of Science and Technology, 1966 Nov p 39 People's Republic of China National Science Department, 1966 Nov. p 39 People's Republic of China National Vaccine and Serum Institute, 1964 Jan p 81, 1977 People's Republic of China Northwest College of Agriculture, 1975 June p 16

People's Republic of China Peking University, 1978 Feb. p. 84. People's Republic of China Song-Chiang County Commune, 1972 Dec. p. 17. Peoples, Joe W., 1969 Oct. p. 50. Pepin, Robert O., 1963 Oct. p. 68. Pepin the Short, 1970 Aug. p. 95. Peppers, N. A., 1963 July p. 42. Pepys, Samuel, 1953 June p. 25, 31; 1954 Feb. p. 54; Dec. p. 94, 95; 1955 Dec. p. 76; 1963 Sept. p. 88; 1964 Feb. p. 117; 1968 Dec. p. 105. Peracchia, Camillo, 1978 May p. 147, 150. Percival, Elizabeth, 1968 June p. 105. Percival, John, 1951 Apr. p. 57. Perdeck, A. C., 1969 Dec. p. 103, 104. Peregrinus, Peter, 1958 Feb. p. 29. Pereira, H. G., 1960 Dec. p. 93-95. Peretz, Bertram, 1970 July p. 70. Perey, M., 1950 Apr. p. 44. Pergamon Institute, 1958 Jan. p. 46. Pericles, 1949 Jan. p. 40; 1954 Nov. p. 99; 1965 Feb. p. 111; 1974 Sept. p. 95. Perkin, George F., 1957 Feb. p. 111. Perkin, Thomas, 1957 Feb. p. 118. Perkin, William H. Jr., Sir, 1951 Sept. p. 46; 1955 July p. 60; 1956 Nov. p. 81; 1957 Feb. p. 117, 110-112, 114, 118, 118; 1964 June p. Perkin-Elmer Corporation, 1952 July p. 47, 48; 1957 Sept. p. 108; Dec. p. 41; 1959 May p. 54; 1961 Jan. p. 93; 1963 Aug. p. 31; 1970 Mar. p. 41; Nov. p. 74. Perkins, David, 1949 June p. 46. Perkins, Dexter Jr., 1964 Apr. p. 97; 1970 Mar. p. 52. Perkins, H. R., 1969 May p. 97. Perkins, Herbert, 1950 Aug. p. 30. Perkins, Walton A. III, 1966 Dec. p. 26. Perl, M. L., 1956 May p. 59; 1957 Apr. p. 46. Perl, Martin L., 1975 June p. 54, 56; 1978 Mar. p. 50, 72. Perle, George, 1961 May p. 149. Perlman, I., 1950 Apr. p. 47; 1951 Nov. p. 29; 1956 Dec. p. 67. Perlman, Robert, 1972 Aug. p. 100. Perloff, A., 1966 July p. 107. Perlow, G. J., 1971 Oct. p. 92. Perlow, M. R., 1971 Oct. p. 92. Perlow, William H., 1976 Mar. p. 30. Perlstein, Meyer A., 1971 Feb. p. 22. Pernis, Benvenuto, 1973 July p. 56, 58, 59; 1974 Nov. p. 70, 72; 1976 May p. 35, 37, 38. Pernter, Josef M., 1974 July p. 60. Pero, R. W., 1977 Feb. p. 83, 84. Perola, Cesare, 1975 Aug. p. 33. Peron, Juan D., 1951 May p. 32; 1974 Sept. p. 118. Perot, Alfred, 1968 Sept. p. 77-82. Perrault, Claude, 1964 May p. 113. Perrault, Pierre, 1950 Nov. p. 16. Perrelet, Alain, 1978 May p. 144. Perret, Frank, 1951 Nov. p. 52. Pern, Fausto, 1975 Sept. p. 39, 41. Perrier, C., 1950 Apr. p. 41; 1956 May p. 36. Perrin, Francis, 1952 Feb. p. 34; 1955 Oct. p. 30. Pernn, Jean B., 1950 Oct. p. 32; 1967 Nov. p. 27; 1969 Mar. p. 68, 69; 1974 Mar. p. 93. Perring, J. K., 1964 Dec. p. 62. Perronet, Jean, 1954 Nov. p. 63, 64. Perrot, Jean, 1970 Mar. p. 52. Perry, A. S., 1952 Oct. p. 25; 1959 Nov. p. 174. Perry, Dennis G, 1978 June p. 71. Perry, John, 1973 June p. 40. Perry, Josephine, 1949 Dec. p. 56. Perry, Ray, 1968 Jan. p. 66. Perry, Samuel V., 1975 Nov. p. 38.

Perry, Wilbur, 1952 June p. 50. Perryman, P. W., 1975 July p. 74. Persham, Peter S., 1963 July p. 42; 1964 Apr. Persky, Harold, 1963 Mar. p. 102. Person, Ethel, 1965 Aug. p. 46. Persons, Warren, 1975 Jan. p. 17. Pert, Candace B., 1977 Feb. p. 50; Mar. p. 45, Perthes, Boucher de, 1959 Nov. p. 172-176. Perthes, Jacques B. de, 1954 Jan. p. 69. Peru Ministry of Public Health, 1967 Oct. p. 27. Perutz, Max F., 1954 July p. 59; 1959 June p. 77; 1961 Feb. p. 88; Dec. p. 104, 110; 1962 Dec. p. 66; 1964 Dec. p. 77; 1965 Apr. p. 44, 45; May p. 113; July p. 46; 1966 June p. 42; Sept. p. 161; Nov. p. 83, 85; 1967 Mar. p. 49; June p. 64; Nov. p. 28; 1968 July p. 70; 1969 Aug. p. 91; Oct. p. 48; 1971 Feb. p. 90; 1972 Apr. p. 70; 1973 Oct. p. 58; 1974 July p. 77. Peruvian Air Force, 1955 Mar. p. 99. Peruvian Government, 1957 Jan. p. 41. Peruvian Institute of Andean Biology, 1955 Dec. p. 60-63, 66-68; 1958 June p. 30; 1970 Feb. p. 53. Peruvian National Housing Authority, 1967 Oct. p. 25, 26. Peruvian Sea Institute, 1977 July p. 62. Pesce, Gennaro, 1975 Feb. p. 81. Peschanskii, V. G., 1973 Jan. p. 97. Pescor, Frank, 1965 Feb. p. 86. Peshkov, V. P., 1949 June p. 34; 1958 June p. 34. Pestka, S., 1966 Apr. p. 107. Pétard, H., 1957 May p. 91. Peter, Apostle, 1954 May p. 85. Peter Bent Brigham Hospital, 1949 July p. 29; 1961 July p. 61. Peter of Colechurch, 1954 Nov. p. 62. Peter the Great, 1961 May p. 89; 1965 May p. 102; 1968 May p. 97; Dec. p. 105; 1976 Jan. p. 116. Peter, Walter G. III, 1971 Jan. p. 46. Péterfi, Tibor, 1950 Oct. p. 49. Peterlin, Anton, 1964 Nov. p. 80. Peters, Bernard, 1950 Mar. p. 26. Peters, C. Wilbur, 1962 Jan. p. 62; 1963 July p. 42; 1964 Apr. p. 39, 40, 43. Peters, D. B., 1959 May p. 78. Peters, G. A., 1957 Dec. p. 60. Peters, Hans M., 1954 Dec. p. 80. Peters, Henry N., 1952 Mar. p. 42; 1957 Nov. Peters, Rudolph, Sir, 1959 Nov. p. 82, 83; 1966 May p. 40. Peters, S., 1949 Mar. p. 34. Petersen, C. G. J., 1951 Jan. p. 53. Petersen, D. H., 1952 May p. 40. Petersen, H., 1976 Apr. p. 96. Petersen, Jerry, 1974 July p. 43. Petersen, Kurt E., 1977 May p. 44-46, 48. Petersen, N., 1972 Nov. p. 51. Petersen, Robert C., 1977 Nov. p. 75. Petersen, Val, 1954 May p. 48. Petersen, W. E., 1957 Oct. p. 124. Peterson, Allen M., 1955 Sept. p. 136; 1960 Aug. p. 50. Peterson, Bruce A., 1966 Feb. p. 51; Dec. p. 43-45. Peterson, Charles M., 1975 Apr. p. 45. Peterson, D. D., 1969 Feb. p. 53; June p. 38. Peterson, Donald R., 1968 July p. 25. Peterson, Elbert A., 1958 Aug. p. 50. Peterson, Etta, 1972 June p. 42 Peterson, Jane A., 1975 Apr. p. 72. Peterson, Lloyd R., 1964 Mar. p. 94; 1966 July p. 90; 1971 Aug. p. 86.

Peterson, Margaret J., 1964 Mar. p. 94; 1971

Aug. p. 86. Peterson, Osler L., 1977 Jan. p. 43. Peterson, Peter G., 1971 Mar. p. 44. Peterson, R. L., 1967 Sept. p. 103. Peterson, Raymond D. A., 1974 Nov. p. 61. Peterson, Roger T., 1969 Nov. p. 133. Petford, A. D., 1973 Oct. p. 77. Pethica, B. A., 1970 Nov. p. 70. Pethick, Christopher J., 1970 Feb. p. 45; 1971 Feb. p. 30. Petit, Alexis, 1960 Oct. p. 158; 1967 Sept. p. 182, 183. Petit, M., 1964 Aug. p. 14. Petrarch, 1948 May p. 30. Petrick, Stanley R., 1976 Oct. p. 64. Petrides, George A., 1960 Nov. p. 133. Petrie, Flinders, 1957 July p. 106. Petrie, Flinders, Sir, 1954 Apr. p. 78; 1963 Nov. p. 125; 1973 Aug. p. 82-84. Petris, Stefanello de, 1976 May p. 31, 35, 36, 37, Petronius, 1949 June p. 41; 1954 Nov. p. 98; 1963 Dec. p. 116. Petrovich, Slobodan, 1972 Aug. p. 31. Petrovsky, Boris V., 1972 Apr. p. 55. Petrunkevitch, Alexander, 1950 July p. 53; 1970 Sept. p. 53. Petrusewiczowa, E., 1960 Apr. p. 119. Petruska, Frantisek, 1976 Aug. p. 86. Petruska, John A., 1965 June p. 61; 1970 Oct. p. 46. Petsas, Photios, 1965 Apr. p. 83. Petschek, Harry, 1954 Sept. p. 132. Pettengill, Gordon H., 1962 Aug. p. 60; 1965 Dec. p. 40; 1968 July p. 29, 31, 33, 35; 1969 Mar. p. 84; 1975 Sept. p. 61. Pettersson, Hans, 1950 Dec. p. 55; 1954 Feb. p. 78; 1958 Feb. p. 57; 1960 Feb. p. 123, 126; Dec. p. 65, 68; 1963 June p. 55. Pettigrew, John D., 1968 Feb. p. 52; 1977 Jan. p. 71. Pettigrew, Thomas J., 1970 Nov. p. 96. Pettijohn, David, 1967 Feb. p. 39. Pettijohn, Francis J., 1975 Sept. p. 85. Pettinato, Giovanni, 1977 Sept. p. 101. Pettingill, Gordon H., 1965 June p. 58. Pettit, Edison, 1953 May p. 70; 1965 Aug. p. 23, 27. Petty, William, Sir, 1970 May p. 117-119. Petzold, Gary L., 1977 Aug. p. 113. Petzval, Józef M., 1976 Aug. p. 77. Peucer, Casper, 1973 Dec. p. 99. Peugeot, Armand, 1972 May p. 102, 107. Peurbach, Georg, 1966 Oct. p. 89, 92. Pevsner, A., 1962 Feb. p. 74. Peyrony, Denis, 1964 Aug. p. 86. Pezzi, 1955 Dec. p. 43. Pfaff, Donald W., 1976 July p. 49, 50, 53. Pfann, W. G., 1954 Apr. p. 50; July p. 39; 1961 Oct. p. 110. Pfeffer, Arnold Z., 1953 Apr. p. 48. Pfesser, Robert, 1972 Oct. p. 29. Pfeffer, Wilhelm, 1976 Apr. p. 40. Pfeiffer, Carroll A., 1966 Apr. p. 85, 86. Pfeiffer, E. W., 1970 July p. 48. Pfeiffer, John E., 1952 Mar. p. 68; 1956 June p. 76. Pfeisser, R. A., 1962 Aug. p. 29, 30. Pfeiffer, Richard F. J., 1977 Dec. p. 89. Pfennig, Norbert, 1975 Aug. p. 38. Pfenninger, Werner, 1954 Aug. p. 77. Pfiffelmann, J. P., 1976 July p. 41. Pfizer and Company, Inc., see: Charles Pfizer and Company, Inc., Pfleegor, Robert L., 1968 Sept. p. 55. Pfleiderer, Jorg, 1973 Dec. p. 44, 45, 47. Pfleumer, F., 1961 Aug. p. 79.

Pfost, Gracie, 1955 Feb. p. 56. Phanes, 1964 Nov. p. 116. Phearman, Leo, 1951 Sept. p. 45. Pheidippides, 1965 May p. 96. Phelps, Harvey W., 1961 Oct. p. 55. Phelps, John B., 1954 June p. 30. Phelps, William H. Jr., 1954 Mar. p. 79, 81. Phidias, 1958 Sept. p. 60. Philadelphia Academy of Natural Sciences, 1965 Nov. p. 114; 1966 June p. 105. Philadelphia Electric Power Company, 1974 Nov. p. 35. Philadelphia, Thea, 1956 July p. 40. Philco Corporation, 1954 Feb. p. 47. Philco-Ford Corporation, 1971 Aug. p. 68. Philétas of Cos, 1969 June p. 66. Philip IV, King, 1973 Sept. p. 35. Philip, King, see: Metacomet. Philip of Macedonia, 1948 May p. 30; 1961 Mar. p. 114; 1966 Dec. p. 99, 101; 1969 Sept. p. 59; 1973 Oct. p. 41. Philip, Princess of Saxe-Coburg-Gotha, 1965 Aug. p. 89. Philip V, King, 1966 Dec. p. 104, 105. Philippe, M., 1965 Aug. p. 93. Philippina, 1969 July p. 43. Philippine Republic, 1970 Dec. p. 17. Philips Chemical Company, 1957 Sept. p. 146, 152. Philips N.V., 1950 July p. 26; 1951 June p. 20; 1971 Feb. p. 88. Philips Research Laboratories, 1948 July p. 52; 1960 June p. 98; 1965 Apr. p. 121; 1966 Mar. p. 60, 65; Aug. p. 29; 1968 Aug. p. 30; Sept. p. 115; 1970 Dec. p. 96; 1972 Aug. p. 46. Philips, Roxane, 1969 June p. 54. Philipson, Agneta, 1975 Feb. p. 40. Phillips, Anthony, 1966 May p. 112. Phillips, Bruce A., 1975 May p. 25. Phillips, C. W., 1951 Apr. p. 24, 25. Phillips, Carey, 1965 July p. 48. Phillips, Charles, 1978 Feb. p. 94, 95. Phillips, David C., 1961 Dec. p. 98, 109; 1965 July p. 46; 1966 Nov. p. 87, 78; 1967 June p. 64; 1968 July p. 70. Phillips, David M., 1974 Sept. p. 54. Phillips, Llad, 1963 Apr. p. 70. Phillips, Norman A., 1956 Dec. p. 44. Phillips, O. M., 1975 Mar. p. 53. Phillips, Philip, 1952 Mar. p. 23, 24. Phillips, Robert A., 1971 Aug. p. 17. Phillips, Teregrine, 1971 Dec. p. 49. Phillips, Thomas G., 1976 June p. 34. Phillips, Vance, 1969 Mar. p. 109. Phillips, W. C., 1978 May p. 150. Phillips, Wendell, 1949 Nov. p. 22; 1969 Dec. Phillipson, D. W., 1977 Apr. p. 106. Philolaus, 1949 Apr. p. 44; 1967 Dec. p. 96. Philoponos, John, 1949 Aug. p. 44; 1974 Jan. p. 104. Philoponus, John, 1950 May p. 51. Philostratus, 1950 Aug. p. 49. Philpot, J. St. L., 1951 Dec. p. 49. Phinney, Bernard O., 1956 Oct. p. 72; 1957 Apr. p. 132; 1968 July p. 76. Phinney, Robert A., 1973 Mar. p. 30. Phleger, Fred B. Jr., 1950 Aug. p. 44. Phygepris, 1972 Oct. p. 37. Physics International Company, 1969 May p. 61; 1972 Apr. p. 27-29; 1973 July p. 48. Piaget, Jean, 1950 Sept. p. 81; 1953 Nov. p. 74-79; 1957 Mar. p. 46; 1964 Nov. p. 122; 1966 Aug. p. 84; 1972 Mar. p. 82; 1973 Mar. p. 105. Piantanida, Thomas, 1975 Mar. p. 74. Piasecki Helicopter Corporation, 1960 Aug.

Piazza, A., 1974 Sept. p. 88. Piazzi, Giuseppi, 1965 Apr. p. 108, 115; 1977 July p. 128. Picard, Charles E., 1957 May p. 91. Picard, Jean, 1953 Aug. p. 64, 65; 1968 June p. 53. Picard, Robert, 1953 Mar. p. 40. Picasso, Pablo, 1950 Jan. p. 18; 1952 Mar. p. 69; 1969 Nov. p. 98; 1972 Dec. p. 85, 89; 1974 July p. 103; Sept. p. 137. Picatinny Arsenal, 1977 May p. 44. Piccard, Auguste, 1958 Apr. p. 27; 1960 July p. 128. Piccard, Jaques, 1958 Apr. p. 27. Piccioni, Oreste, 1956 Nov. p. 64. Piccolomini, Enea S., 1963 Sept. p. 52, 61. Pichotka, Josef, 1952 Feb. p. 56; 1955 Dec. p. 44. Pick, Herbert Jr., 1967 May p. 97. Pick, Ruth, 1977 Feb. p. 78. Pickels, Edward G., 1950 June p. 36; 1951 June p. 45-47, 50. Pickering, Edward C., 1949 Dec. p. 16; 1950 Sept. p. 24; 1977 Feb. p. 30, 32. Pickering, Howard, 1966 Feb. p. 76. Pickering, Ray, 1961 Oct. p. 119. Pickering, S. C., 1949 Mar. p. 48. Pickering, William H., 1959 Apr. p. 86, 90, 93; 1966 Apr. p. 66; 1967 Apr. p. 50; 1971 Aug. p. 47; 1975 Sept. p. 131. Pickersgill, Barbara, 1977 Mar. p. 127. Pickett, James M., 1969 Dec. p. 54. Pickett, Richard A., 1971 Aug. p. 39. Pickett-Heaps, J. P., 1969 Feb. p. 107. Pickford, Grace E., 1969 Mar. p. 21. Pickford, R. W., 1970 Apr. p. 48. Picou, D., 1976 Sept. p. 54. Pictet, Amé, 1959 July p. 113. Pidd, Robert W., 1959 Jan. p. 66; 1961 July p. 54; 1968 Jan. p. 79. Piddington, J. H., 1965 Dec. p. 58. Piearcey, B. J., 1967 Feb. p. 60. Piel, Gerard, 1950 May p. 26; 1970 Feb. p. 13; 1972 Nov. p. 71; 1974 Sept. p. 173. Pienkowski, Stefan, 1949 Dec. p. 40-42. Pierce, Barry, 1963 Jan. p. 123. Pierce, Charles, 1952 Mar. p. 73. Pierce, Cynthia H., 1949 Oct. p. 39. Pierce, G. Barry Jr., 1965 Nov. p. 81. Pierce, G. W., 1950 Aug. p. 52 Pierce, John A., 1951 June p. 24, 25, 27. Pierce, John R., 1954 Mar. p. 84; Oct. p. 52; 1957 June p. 76; 1958 Sept. p. 64; 1959 Dec. p. 112; 1961 Oct. p. 80; 1962 Aug. p. 114; 1965 Dec. p. 42; 1966 Sept. p. 145; Nov. p. 112; 1968 Mar. p. 103; 1972 Sept. p. 136, 34, 43; 1975 Apr. p. 56; 1977 Feb. p. 58. Pierce, Nathaniel F., 1971 Aug. p. 18 Piéron, Henri, 1964 Nov. p. 116; 1967 Oct. p. 56; 1976 Aug. p. 24, 25, 28. Pierpont Morgan Library, 1960 Sept. p. 178. Pierre, François, 1977 Oct. p. 69. Pierrepont, Mary, 1976 Jan. p. 112, 114. Pierson, Willard J. Jr., 1959 Aug. p. 76. Piette, Edouard, 1953 Aug. p. 32 Piette, Lawrence H., 1970 Aug. p. 74. Piez, Karl A., 1963 Apr. p. 106; 1971 June p. 51. Pigafetta, Marco A., 1956 Apr. p. 53. Pigalayev, I. A., 1955 Oct. p. 38. Piggott, Stuart, 1959 Aug. p. 70; 1966 May p. 93; 1974 Sept. p. 72, 94. Pigman, Ward, 1957 Feb. p. 58. Pignocco, Arthur J., 1965 Mar. p. 36. Pigón, Andrew, 1971 Dec. p. 32, 33. Pipper, Adrianus, 1975 Aug. p. 39. Pike, John E, 1971 Nov. p. 84. Pike, Lawrence H., 1973 June p. 75, 77.

Pike, M., 1973 Oct. p. 29. Pike, Sumner T., 1949 July p. 33; 1950 May p. 27; June p. 27; July p. 26; Aug. p. 28; Oct. p. 24; Dec. p. 27; 1952 Feb. p. 32; Mar. p. 34. Pikelner, S. B., 1967 Oct. p. 111; 1969 Feb. Pilar, Guillermo R. J., 1970 July p. 59, 60. Pilat, Albert, 1975 Mar. p. 100. Pilâtre de Rozier, Jean F., 1951 Dec. p. 68. Pilbeam, David R., 1970 Jan. p. 82; 1974 July p. 108; 1976 May p. 56; 1977 May p. 30, 31. Pilcher, Cal B., 1976 May p. 111, 114. Pilcher, Carl, 1975 Sept. p. 152. Pilgrim, G. E., 1964 July p. 56, 62. Pilgrim, Guy, 1972 Jan. p. 94, 98. Pilgrim State Hospital, 1962 Aug. p. 68. Pilkington Brothers Limited, 1961 Jan. p. 105; 1971 Apr. p. 52. Pilkington, J. D. H., 1968 Apr. p. 42. Pillemer, Louis, 1954 Oct. p. 50; 1955 May p. 34; 1973 Nov. p. 57, 60. Pillinger, Colin T., 1975 Jan. p. 72. Pillinger, Sally, 1966 July p. 37. Piltch, Martin, 1973 Feb. p. 89. Pimentel, David, 1974 Sept. p. 169; 1976 Sept. p. 168. Pimentel, George C., 1965 Apr. p. 58; Aug. p. 26; 1966 Apr. p. 32. Pinard, Jacques, 1968 Sept. p. 82. Pinching, Anthony, 1978 Feb. p. 96. Pinchot, Gifford B., 1964 Jan. p. 73; 1967 Mar. p. 52; 1970 Dec. p. 15. Pincus, Gerald, 1970 Dec. p. 59. Pincus, Gregory, 1949 July p. 44, 45; 1950 Mar. p. 36; 1955 June p. 35; 1966 Aug. p. 77. Pindar, 1968 Aug. p. 85. Pine, Milton R., 1975 Sept. p. 36. Pinel, Philippe, 1973 Sept. p. 119. Pines, David, 1963 July p. 114; Nov. p. 53; 1970 Feb. p. 45; 1971 Feb. p. 30. Pinkerton, Frederick, 1975 Jan. p. 88. Pinkerton, H., 1978 Apr. p. 122. Pinkerton, Richard C., 1956 May p. 66; 1959 Dec. p. 112. Pinkham, Roger S., 1969 Dec. p. 112, 118, 120. Pinotti, Mario, 1962 May p. 94. Pinsker, Harold, 1970 July p. 64. Pinsker, M. S., 1978 June p. 120, 123, 124. Pinsky, Lawrence S., 1975 Oct. p. 52. Pinson, W. H. Jr., 1968 Apr. p. 59. Piore, Emanuel R., 1964 Oct. p. 56. Piore, Nora, 1972 Feb. p. 41; 1974 Feb. p. 45; 1977 Apr. p. 52. Piotrowsky, S., 1975 Jan. p. 25. Pippard, A. B., 1963 July p. 111, 119. Pippenger, Nicholas, 1978 June p. 114. Piranesi, Giambattista, 1957 Mar. p. 122; 1962 Feb. p. 84. Piranesi, Giovanni B., 1974 July p. 101, 102. Pirani, M. von. 1965 May p. 63. Piria, 1963 Nov. p. 96. Pirola, Romano C., 1976 Mar p. 32. Pirquet, Clemens von, 1948 July p. 26-28; 1973 Jan. p. 22, 26, 31. Pirrotta, Vincenzo, 1970 June p. 42; 1976 Jan. p. 71, 74, 75 Pisa, E. J., 1969 Oct. p. 37. Pisani, T. M., 1949 July p 18 Piscator, Magnus, 1971 Aug. p. 47 Piscopo, Irene, 1971 Feb. p 88. Pisharody, R., 1971 Nov p 30 Pitakpaivan, Kaset, 1961 Nov p 65 Pitha, Paula M., 1977 Apr. p. 47 Pitman, Gary B., 1966 Dec. p. 65 Pitman, Walter C. III, 1967 July p. 35; 1963 Apr. p. 57; 1969 Sept. p. 138, 1972 May p. 63, 1973 Aug. p. 65; 1977 Apr p. 32; Aug. p. 63.

Pitman-More Company, 1966 June p 96, 97 Pitochelli, A. R., 1966 July p. 107 Pitot, Henri, 1954 Aug p 73 Pitt, F H G, 1962 Nov p 128 Pitt, G A J, 1967 June p 72 Pitt, William, 1969 July p 41 Pitt, William the Younger, 1965 Sept p 153 Pittendrigh, Colin S, 1963 Feb p 86, 1973 Dec p 27, 1976 Feb p 118 Pitt-Rivers, Rosalind, 1960 Mar p 122 Pitts, Ferris N Jr, 1968 Feb p 54, 1972 Feb p 88 Pitts, Walter H, 1948 Nov p 14, 1950 Dec p 22, 24, 1955 Apr p 60, 1964 Mar p 113, Sept p 150, 1966 Sept p 247, 1971 June p 37 Putsburgh Consolidation Coal Co, 1955 July p 67 Pitzer, Kenneth S, 1949 June p 29, July p 26, 33, 36, 1970 Jan p 58, 63 Pitzkhelaun, G Z, 1973 Sept p 48 Pius II, Pope, 1963 Sept p 52 Pius XII, Pope, 1959 Apr p 52 Pixu, Hyppolyte, 1961 May p 113 Pizarro, Francisco, 1950 Sept p 90, 1952 Apr p 21, 1954 Aug p 34 Pizzarello, Donald J, 1963 Mar p 78 Pizzichini, G, 1976 Oct. p 70 Placet, P, 1968 Apr p 53 Placzek, George, 1973 Nov p 39 Plake, E, 1951 Feb p 58 Planck, Max, 1948 May p 51, June p 28, July p 31, Sept p 17, 1949 Mar p 53, 55, Oct p 13, Dec p 13, 1950 July p 51, Aug p 17, Sept p 22, 23, 30, 1951 Mar p 23, 1952 Mar p 47-50, Dec p 42, 1953 Jan p 51, Sept p 52, 54, 56, 60, Oct p 43, 44, 48, 1954 May p 86, 87, Sept. p 145, Dec p 52, 1955 June p 31, July p 72, Aug p 49, 1957 Jan p 86, 1958 Jan p 51, Feb p 77, Mar p 97, Apr p 56, Sept p 144, 63, 64, Dec p 42, 1959 Jan p 75, 1961 June p 55, 1963 May p 46, 48. Dec p 64, 1965 May p 60, 1966 May p 37, July p 68, 1967 Sept p 183, 83, Nov p 108, 26, 1968 May p 15, Sept p 53, 54, 56, 1969 Jan p 131, Apr p 102, Aug p 62, 1970 Oct p 63, 70, 1971 June p 64, 71, Sept p 51, 1973 June p 43, 1976 Apr p 97, May p 88, Nov p 49 Planned Parenthood Federation of America, 1953 Aug. p 48, 1954 Apr p 32, 1969 Jan p 23, 1971 Oct p 42, 1972 Oct p 46 Planned Parenthood-World Population, 1973 Mar p 45 Plano, R. J., 1957 July p 74 Plant, Thomas, 1953 Dec p 32 Plapinger, Linda, 1976 July p 57, 58 Plasil, Franz, 1978 June p 71 Plaskett, H H 1968 Jan p 111, 1975 Apr p 114 Plasmadyne Corporation, 1961 Mar p 59 Plass, Gilbert N. 1953 July p 44, 1970 Sept p 183 Plate, Charles 1975 Dec. p 34 Plateau, Felix, 1958 Dec p 95 Plateau, Joseph 1949 Oct. p 42, 1958 Dec p 95, 1976 July p 82, 89, 91, 93, Dec p 42 Plater, Felix, 1964 May p. 110 Plath, Warren J 1976 Oct p 60 Plato, 1948 June p 18, Aug p 46, 1949 Apr p 44, Aug p 46, 1950 May p 48, 50, 1952 Aug p 66 1953 Jan p 51, 1954 May p 74 Aug p 61 1958 Der p 69, 1959 June p 66, 1964 May p 116 Sept p 69, 1965 Feb p 111, 1966 Jan p 70, 1967 Jan p 102, 106, Dec p 93, 97, 98, 1965 May p 95, 98, 1969 Jan p 21, Nov p 95, 1970 May p 118, 1972

Feb p 95, 1973 Dec p 111, 1974 July p 98, 1975 Dec p 69, 1977 June p 121, July p 124, 1978 Jan p 68 Platt, J B, 1948 June p 27 Platt, John R., 1960 June p 121 Platt, Joseph B, 1972 Nov p 104 Platt, Robert B, 1963 June p 43, 45, 46, 48 Plattner, Stuart, 1975 May p 66 Platzman, Robert L, 1959 Sept p 180, 95, 1963 Apr p 83, 1967 Feb p 79, 80 Plaut, Walter S, 1956 Mar p 57, Apr p 66 Plautus, Titus Maccius, 1962 Apr p 84 Plavec, Miroslav, 1975 Mar p 29 Playfair, John, 1964 Sept p 66, 1967 Dec p 113, 115 Playfair, Lyon, Sir, 1957 Feb p 111, 117 Plenderleith, H J, 1960 Nov p 157 Plendl, J N, 1974 Aug p 64 Plesch, J, 1955 Aug. p 38 Plimpton, Samuel J, 1976 May p 91, 95, 96 Pliny the Elder, 1948 May p 46, Oct p 50, 1949 Aug p 17, 1952 Jan p 28, 1954 Nov p 98, 1958 Apr p 69, 1959 Dec p 140, 1960 Jan p 52, Mar p 119, 1968 Oct p 114, 118, 1969 Dec p 40, 41, 1975 July p 50, 1976 June p 100, 1977 May p 96 Pliny the Younger, 1958 Apr p 69 Plotkin, Henry H., 1970 Mar p 38, 41 Plotkin, Stanley A, 1966 July p 34, 36, 1969 June p 55 Plott, Charler R., 1976 June p 26 Plotz, H, 1955 Jan p 76 Plowden, William, 1963 May p 125 Plucker, Julius, 1970 May p 116, 1971 May p 86, 1974 Mar p 92, 93 Plumb, Robert K., 1951 Feb p 30 Plumier, Charles, 1963 Apr p 137-139 Plummer, Norman, 1955 Jan. p 48 Plummer, William T, 1965 Jan. p 33, 1970 Feb Plumstead, Edna, 1968 Apr p 61 Plutarch, 1949 June p 42, 50, Nov p 49, 1952 Mar p 66, 1959 July p 100, 1961 Mar p 115, 1963 July p 89, 1966 Feb p 102, 1972 Dec p 89, 1977 June p 64 Plyler, E K., 1955 Aug p 65-67 Plymale, C E, 1960 Dec p 110 Plymouth Marine Laboratory, 1960 July p 128 Pneuman, Gerald W, 1973 Oct p 75 Pneumatic Breakwaters Ltd, 1959 Jan p 70 Priewski, Jerzy, 1962 Jan p 50, 51, 53 Poag, William, 1951 May p 66 Pocahontas, 1960 Feb p 37 Pochhammer, L., 1973 July p 24 Pockels, F, 1968 June p 19, 21 Pocklinton, Roger, 1975 June p 93, 96 Pocock, Mary A , 1950 May p 53, 54 Podolak Morris, 1975 Sept p 36 Poe, Edgar A. 1950 Feb p 48, 1956 Jan p 75, 1967 Oct. p 107, 1972 Sept p 77 Poggendorff, Johann, 1968 Nov p 68 Pohl, Herbert A., 1960 Dec. p. 107, 1972 Mar. Pohl, Julius, 1966 Nov p 135 Pohl, R., 1955 Jan p 54 Pohl, R. W. 1967 Sept p 86 Pohl, Robert O, 1962 Dec p 97, 99, 1970 May Poincare, Henri, 1948 June p 54, Aug. p 54-57, 1949 Oct p 42, Dec p 16, 1950 Jan. p 2 24, Sept p 24, 28 40, 42, Oct p 46, 1952 Nov p 79, 1953 Nov p 75, 1955 June p 68, 1958 Sept p 69, 73, 1964 Sept p 46-48, 95. 108, Nov p 114, 1967 Dec p 112, 1968 June p 39, 1973 Nov p 84, 1976 Aug p 98, 1977 Apr p 125, 1978 Feb p 134-137 Poincare Raymond, 1948 Aug. p. 54

Poiseuille, Jean L M, 1960 Dec p 149 Poisson, Albert, 1952 Oct p 72 Poisson, Simeon D, 1953 Nov p 93, 1954 June p 80, 1965 Nov p 30, 1971 July p 103 Pokrovsku, Yaroslav E., 1976 June p 30, 31, 34 Polacca, Tom, 1957 June p 127, 136 Polach, Jaroslav G, 1963 Sept p 126 Polani, Paul E., 1963 July p 60 Polanyi, J C, 1966 Apr p 37, 39, 1968 Oct p 49 Polanyi, Michael, 1952 Mar p 35, 1953 May p 31, 30, 1961 Oct p 107, 1963 Aug p 72, 1971 Dec p 54, 1972 Dec p 86, 88, 1975 Feb p 97, Apr p 117 Polaroid Corporation, 1958 May p 69, 1976 Oct. p 80, 94 Polder, D, 1960 July p 49, 52, 53 Pole, Robert V, 1976 Oct p 95 Polezhayev, L W, 1958 Oct p 88 Polge, Christopher, 1956 June p 106, 1966 Aug p 78 Polge, Hubert, 1972 May p 100 Polhem, Christopher, 1963 Apr p 139 Polish, Edwin, 1958 Oct p 100 Polish Institute of the History of Material Culture, 1978 Jan p 112 Polish Jagellonian University, 1977 Nov p 77, Polish Ministry of Education, 1949 Dec p 40, 42, 43 Polish Physical Education Research Institute, 1968 Jan p 27 Polissar, Milton J, 1954 Sept p 66; 1958 Oct. Politecnico di Milano, 1957 Sept p 101, 104, 1961 Aug p 33 Politoff, Alberto, 1970 May p 82 Politzer, H David, 1974 July p 58, 1975 June p 62, Oct p 47, 1976 July p 60, Nov p 56, 1977 Oct p 66 Poljak, Roberto J, 1965 July p 46, 1966 Nov p 84, 1977 Jan p 53 Pollack, Gerald L, 1966 Oct p 64, 1967 Aug Pollack, Henry N, 1977 Aug p 60 Pollack, James B, 1969 Mar p 86, 1975 Sept p 150, 29, 1976 May p 113, 1977 Feb p 35, 1978 Mar p 76, 89 Pollack, L W, 1949 Oct p 13, 14 Pollack, William, 1966 Mar p 58, 1968 Nov p 50 Pollard, Ernest C, 1954 Apr p 50, June p 30, 1956 Oct p 68 Pollard, Richard B , 1976 Nov p 70 Pollard, W G, 1954 Dec p 53 Polley, Howard F, 1950 Mar p 33 Pollister, Arthur W, 1949 Sept p 30 Pollock, Frederick, Sir. 1953 Feb p 78, 84 Pollock, H C, 1957 Mar p 53 Pollock, H E. D., 1955 May p 85 Pollock, Lady, 1953 Feb p 78, 82. Polnarev, Andrei, 1974 Dec p 40 Polo, Marco, 1949 Dec p 56, 1963 Aug. p 57, 1964 Feb p 40, 1970 Aug. p 96, 1977 Oct. Polonius, 1949 June p 55 Polt, James M., 1965 Apr p 46 Polunin, Ivan, 1976 May p 74, 75, 79, 83 Polyal, S L, 1960 June p 121 Polyakov, Alexander M., 1977 Mar p 64 Polybius, 1954 Nov p 99, 1968 Apr p 95, 1973 Oct p 38, 1977 June p 64 Polycasta, 1958 May p 111, 115 Polycrates, 1964 June p 104, 106 Polytechnic Institute of Brooklyn, 1965 Aug. Polzunov, I I, 1970 Oct p 114

Pomeranchuk, Isaak Ya, 1956 Aug p 33, 1969 Dec p 27, 31-35, 1973 May p 42, 1975 Feb p 66 Pomerantz, Martin A, 1964 Dec p 62 Pomerat, Charles M, 1961 Nov p 70 Pommery, Madame, 1954 Feb p 34 Pompeiano, Ottavio, 1967 Feb p 70 Pompey, 1954 Nov p 102, 1956 July p 39, 41, 1965 Sept p 63 Poncelet, Jean V, 1955 Jan p 83, 1964 Sept p 65 Pond, Wilson G, 1966 June p 97 Ponder, Enc, 1957 Jan p 95 Pondiczery, E S, 1957 May p 89 Ponnamperuma, Cyril A, 1963 Aug p 52, 1971 May p 30, 42, 1972 June p 42, Oct p 85 Ponte, Antonio da, 1954 Nov p 63 Pontecorvo, Bruno M, 1953 Oct p 51, 1956 Jan p 66, 1961 May p 78, 1962 Aug p 98, 1963 Mar p 68, 1969 July p 32, 36, 37 Pontecorvo, Guido, 1960 May p 124, 1974 July p 36 Ponting, Herbert G, 1964 Feb p 94, 96 Pontoppidan, H, 1969 Nov p 27 Ponzo, Mario, 1968 Nov p 68, 69, 71 Poole, D F G, 1972 Feb p 42 Poole, J H J, 1952 Oct p 60 Poole, John, 1977 Feb p 81 Pooley, Anthony C, 1976 Apr p 118, 122 Pope, Albert A, 1973 Mar p 88 Pope, Alexander, 1954 Aug p 24, 1955 Dec p 80, 92, 1966 July p 107 Pope, Clifford H, 1949 Dec p 55 Pope, Daniel H, 1977 June p 52 Pope, Martin, 1969 May p 56 Popham, E J, 1975 Aug p 57, 58 Popjak, G, 1957 Oct p 128 Popov, Fedot, 1961 May p 89 Poppaea, wife of Nero, 1969 Dec p 40 Popular Democratic Party, 1966 Oct p 24 Population Council, 1960 Sept p 212, 1972 Nov p 50, 1973 Mar p 15, Nov p 49, 1974 Sept p 182, 33, 54, 59 Population Council of New York, 1966 June p 56 Population Reference Bureau, 1966 Nov p 71 Poquelin, Jean B, 1957 Aug p 80, 1963 Sept Porai-Koshits, E A, 1961 Jan p 97 Porath, Jerker O, 1970 Aug p 38, 1971 Mar p 26 Porcello, Leonard J, 1977 Oct p 84 Porcius, M., 1954 Nov p 98 Porsche, Ferdinand, 1977 Aug p 103 Porsild, M P, 1951 Mar p 42, 43 Porta, Giambattista della, 1964 May p 110 Portal, Guy, 1975 Feb p 42 Porter, David D., 1973 Jan p 22, 29 Porter, George, 1955 Jan p 46, 1960 May p 137, 138, 1964 May p 91, 1965 June p 37 43, 1967 Dec p 48, 1968 Sept p 164, 1969 Feb p 39 Porter, Helen K, 1960 Nov p 114 Porter, J., 1960 Feb p 49 Porter, Keith R , 1948 Aug p 35, 1958 Nov p 40, 1961 Feb p 114, 116, Sept p 108, 144, 145, 56, 57, 1962 Mar p 60, 64, Apr p 71, 1965 June p 82, 1966 Nov p 65, 1970 Apr p 85, 86, Nov p 26, 1971 Oct p 77, 1974 Jan p 55, 59, Feb p 64, Oct p 45, Dec p 56, 1975 Oct p 31, 1978 Jan p 68, May p 145 Porter, Neil A, 1977 Jan p 39 Porter, R R., 1958 Nov p 58, 1970 Aug p 34. 35, 1973 July p 55, Nov p 54, 1974 Nov Porter, Richard D , 1970 Apr p 74

Porter, Richard W, 1957 Dec p 39 Porter, Robert R, 1972 June p 108, 1976 May p 37 Porter, Rodney R, 1964 Dec p 114, 1972 Dec p 41, 1977 Jan p 51 Porter, Russell W, 1948 Aug p 13, 17 Porter, Rutherford B, 1963 Mar p 98 Porter, Stephen C, 1970 June p 101 Porter, William, 1965 Sept p 210 Porter, William A, 1950 Nov p 42 Porter, William N , 1952 June p 32 Porterfield, James S, 1961 May p 52 Portis, A R. Jr., 1978 Mar p 122 Portland Cement Association, 1964 Apr p 82, Porto, Esecchia di, 1957 Mar p 124 Porto, Sergio P S, 1968 Sept p 124 Posada, Rafael, 1976 Sept p 192 Poseidonius, 1967 Oct p 68 Poskanzer, Arthur M, 1969 July p 34, 1978 June p 60, 66, 67 Poskanzer, David C, 1961 Sept p 88, 1967 Jan p 113, 1970 July p 43 Posner, E, 1968 July p 55 Post, Austin S, 1970 June p 101 Post, Emil, 1971 Mar p 58, 1973 Nov p 85, 90 Post, Emily, 1955 Apr p 84 Post, Helen M, 1960 Feb p 38 Post, Lennart von, 1954 Feb p 88, 1958 Oct Post, Richard F, 1956 Nov p 60, 1957 Dec p 73, 1958 Feb p 28, Mar p 50, June p 46, Oct p 28, 1963 Mar p 107, 1966 Dec p 21, 1967 July p 76, 1971 Feb p 58, 60, 1973 July p 48, 1975 Jan p 43 Post, Stephen F, 1975 Jan p 43 Posternak, Theo, 1970 Oct p 48 Postgate, John, 1958 Aug p 80 Postgate, John R, 1977 Mar p 81 Posthumus, K, 1961 May p 158 Postic, Bosko, 1971 July p 27 Postman, Leo, 1971 Aug p 84, 1974 Dec p 25 Postumus, Emperor, 1974 Dec p 121, 130 Potalos, 1973 Oct p 41 Pottasch, Stuart R., 1962 Feb p 55 Potter, Andrey A, 1950 Dec p 26 Potter, Charles F, 1959 Jan p 122, 125 Potter, David D, 1970 May p 79, 80, 84, July p 60, 1978 May p 146, 147, June p 112 Potter, Humphry, 1964 Jan p 101 Potter, John, 1973 Mar p 88, 91 Potter, John M, 1977 Jan p 49 Potter, Ralph K , 1948 July p 34, 1956 May p 128, 1969 Nov p 128 Potter, Richard, 1977 Apr p 121 Potter, Truman S, 1970 Mar p 92 Potter, Van R, 1955 Dec p 68, 1958 July p 61 Potts, John T Jr, 1970 Oct p 44 Potts, Renfrey B, 1963 Dec p 35 Potts, Willis J., 1950 Jan p 17 Pouchet, Felix, 1954 Aug p 46 Pouchon, M., 1966 Nov p 64 Poulik, Dave, 1977 Oct p 101 Poulsen, Valdimar, 1961 Aug p 79 Poulson, Donald F, 1973 Dec p 32 Poulson, Thomas L 1971 Apr p 75, 77 Poulson, Vladimar, 1965 Mar p 96 Poulter, Thomas C, 1965 May p 45 Poultry Science Association, 1966 July p 57 Pound, Robert V, 1948 Sept p 22, 1954 Sept p 62, 63, 1960 Jan p 72, Mar p 84, Apr 80, May p 88, Dec p 78, 1963 Oct p 41. 1965 Jan p 108, 1974 Nov p 28, 30, 31 Pounds, Kenneth A, 1977 Oct p 55 Pourbus, Pieter the Elder, 1978 Mar p 137 Poussin, Charles de la V. 1958 Dec p 108 Pouyanne, A., 1966 Jan p 74

Powdermaker, Hortense, 1957 Jan p 60 Powell, A . 1975 Aug p 59 Powell, B L, 1975 Feb p 73, 74 Powell, Cecil F, 1948 June p 28, 1950 Dec p 27, 1951 May p 28, 1952 Jan p 25, 1953 Sept p 63, 1955 Apr p 46, 1956 May p 42, 1957 Sept p 107, 1963 Mar p 63, 1967 Nov p 28 Powell, David C, 1977 Mar p 108 Powell, Diane S, 1975 Mar p 73 Powell, George, 1972 July p 80 Powell, H M, 1951 July p 32, 1962 July p 82 Powell, James, 1973 Oct p 22, 23 Powell, Richard, 1969 July p 42 Powell, Robert L, 1965 June p 35, 1968 Feb p 45, 46 Powell, Thomas P S, 1971 July p 55, 1978 Feb p 93-96 Powell, Wilson, 1952 Jan p 24, 1958 Apr p 37, 1959 July p 84 Power, Henry, 1964 May p 108 Power, Ramon, 1966 Oct p 25 Power Reactor Development Co, 1967 Nov p 59 Power, Wilson, 1948 June p 27, 37 Powers, Charles F, 1966 Nov p 95 Powers, Francis G, 1973 Feb p 17 Powers, John B, 1967 Aug p 55 Powers, T C, 1964 Apr p 86 Powers, William E, 1956 Feb p 96 Powhatan, 1960 Feb p 37 Poynting, John H, 1949 Nov p 41, 1970 May p 120, 1972 Feb p 63 PPG Industries, Inc., 1968 Sept p 191, 1971 Apr p 52 Pradenne, Vayson de, 1975 Feb p 41 Pradilla, Alberto G, 1971 Aug p 41 Praetorius, Michael, 1962 Nov p 78 Prairie, Richard L, 1968 Feb p 38 Prakash, Satya, 1970 Mar p 104 Prall, E D, 1952 June p 52 Pramer, David E, 1957 May p 120, 1958 July Prampero, Pietro di, 1972 Mar p 88 Prandtl, Ludwig, 1954 Aug p 72, 73, 75, 76, 1959 Dec p 130, 1962 Nov p 74, 1967 Jan p 66, 1975 Nov p 85 Prasad, R N, 1972 Sept p 47 Prasky, Charles, 1966 June p 58 Prast, G, 1965 Apr p 124 Pratt and Whitney Aircraft, 1953 Nov p 67, 68 Pratt, Christopher J, 1970 May p 63 Pratt, Joseph H, 1948 Oct p 9-12, 1965 June p 116 Pratt, Vaughan, 1978 Jan p 104 Pravaz, Charles G, 1971 Jan p 96 Prechtl, Heinz, 1971 Oct p 31 Precision Instrument Company, 1971 Feb p 83 Preece, William H., 1950 Oct p 33, 1969 Mar p 106, 107 Preele, William, Sir, 1959 Nov p 103 Preer, John R Jr, 1950 Nov p 37 Preger, Paul D Jr, 1976 Feb p 56 Pregl, Fritz, 1967 Nov p 26 Prehn, Richmond T, 1977 May p 64 Preisendorfer, Rudolph W. 1971 Jan p 65 Preiss, Frank, 1971 Dec p 87 Preload Company Incorporated, 1958 July p 30 Prelog Vladimir, 1962 Nov p 94, 1975 Dec Premack, David 1971 July p 44, 1972 Sept Prendergast, Kevin H., 1974 Apr. p. 72, 77 Prentiss, Thomas 1967 Aug. p 74 Preparatory Commission for the Denuclearization of Latin America, 1975

Nov p 27 Prepost, R., 1966 Apr p 96, 98 Prescott, David M, 1961 Sept p 178, 1973 June p 87, 1974 Jan p 55, 59 Present, R. D, 1948 June p 34 Press, Frank, 1953 Apr p 50, 1959 Mar p 138, 1960 Sept p 106, 1965 Nov p 52, 1972 Apr p 43, 1973 Mar p 30, 1978 Mar p 69 Press, Joan L, 1974 Nov p 69 Press Wireless, Incorporation, 1961 Sept p 84 Pressey, Sidney L, 1951 Sept p 46, 1961 Nov Pressley, R. J., 1963 July p 38 Pressly, Eleanor, 1955 Dec p 30 Pressman, Berton C, 1977 Nov p 134 Pressman, David, 1973 June p 86, 1976 Mar p 116 Preston, E. Noel, 1970 Nov p 45 Preston, Kendall Jr, 1970 Nov p 72 Preston, R. D., 1957 Sept p 156, 1958 Oct Preston, Samuel H, 1970 Oct p 53 Prestwich, John, Sir, 1972 Sept p 93 Prestwich, Joseph, 1959 Nov p 173, 174, 176 Pretty, E M., 1951 Apr p 25, 27 Prevost, Jean-Louis, 1951 July p 18, 1957 Dec p 48, 1968 July p 19 Pribram, Karl H, 1970 Mar p 68 Price, Charles C, 1966 Nov p 65 Price, Derek J de Solla, 1952 Dec p 30, 1974 Apr p 50 Price, Don K., 1965 July p 25 Price, E.P., 1967 Sept p 149 Price, George R., 1956 Mar p 60 Price, Joseph L. 1971 July p 55, 1978 Feb p 93 Price, Melvin, 1954 Sept p 72 Price, P Buford Jr, 1967 June p 51, 1969 Feb p 53, 1971 Sept p 58, 1973 July p 71, 72, 71-73, 1975 Oct p 52, 1976 Dec p 114, 116, 119, 122 Price, R. M., 1962 Nov p 72 Price, Richard, 1974 Dec p 41 Price, Robert, 1959 May p 76, 1968 July p 31 Price, Stephan D, 1973 Apr p 32, 35 Price, Vincent E., 1955 Nov p 50 Price, Winston H, 1948 Dec p 35, 1955 Jan p 76, 77, Feb p 53, 1957 Nov p 72 Prichard, James C, 1959 May p 62, 63, 65, 66 Prichard, M M L, 1952 July p 72, 73 Priesner, E., 1974 July p 29, 34 Priest, J., 1975 Nov p 37 Priest, Percy, 1949 Aug p 25 Priester, W, 1959 Aug p 39 Priestley, Joseph, 1948 Aug p 25, 26, 28, 36, 41, 42, 1954 Jan p 72, Oct p 68-70, 72, 73, 1955 Dec p 44, 1956 May p 85, 87, Nov p 75, 1957 Jan p 71, 1959 May p 60, 1960 Aug p 72, Oct p 158, Nov p 105, 1965 Jan p 82, 84, 85, June p 115, 1970 Sept. p 152, 1972 Dec p 84, 1974 Sept. p 76, 1976 May Priestley, Robert J. 1955 Nov p 50 Priestly, John G. 1950 Sept p 72, 1965 May Prigogine, Ilya, 1963 Dec p 43, 1975 Dec p 65 1977 Dec. p 82 Primakoff, Henry, 1977 May p 56 Prime, Norman, 1967 Feb p 45 Prince, Alfred M. 1977 July p 44 Princeton Theological Seminary, 1963 Oct. Princeton University, 1949 May p. 11, 1955 Nov p 54, 1957 Dec p 84, 1958 July p 49, Oct p 28, 29, 43, 86, Dec p 37, 1960 Dec p 107 165, 1961 Dec p 58, 94, 1962 Feb p 56, Mar p 82, May p 117, Aug. p 40, 42, 43,

98, 1963 Feb p 109, 111, 41, 81, Mar p 107, Apr p 92, Aug. p 84-86, 1964 Apr p 71, June p 38, 64, Sept p 129, 149, 160, Oct p 114, 1965 Apr p 42, 45, June p 46, Aug p 49, Dec p 29, 32, 1966 Mar p 58, Aug p 36, Nov p 110, 107, 111, Dec p 26, 1967 Mar p 50, 1970 Sept p 86, 1973 Mar p 15, 1977 Oct p 68 Princeton University James Forrestal Research Center, 1956 Apr p 47, 49, 51, 1960 July p 143, 152 Princeton University Plasma Physics Laboratory, 1970 Mar p 60, 1971 Feb p 51-53, 1975 Mar p 48 Prindle, Richard, 1952 Feb p 62 Prineas, John, 1974 Feb p 35 Pring, Duncan, 1977 Mar p 118 Pringle, J W S, 1965 June p 77, 88 Pringle, James, 1965 Dec p 27, 1974 Dec p 39, 40, 1975 Apr p 57, 1977 Oct p 49, 51 Pringle, Robert W, 1950 July p 28 Prinn, Ronald G, 1975 Sept p 76 Pritchard, Andrew L, 1955 Aug p 73 Pritchard, J. M., 1973 Jan p. 46 Pritchard, Roy M, 1961 June p 72 Priteca, B M., 1963 Nov p 91 Probus, Emperor, 1974 Dec p 128 Proca, Alexandre, 1950 Sept p 31, 1976 May p 88, 89, 94 Prockop, Darwin J, 1970 Oct p 47 Proclus, 1969 Nov p 87, 89 Procter, William, 1953 Feb p 35, 1954 Feb p 42, 1963 Nov p 96, 98 Proctor, R C, 1969 Dec p 25 Proctor, R. J., 1972 July p 51 Proescholdt, Hilde, 1957 Nov p 85 Proetus, King, 1954 May p 71 Proger, Samuel H, 1948 Oct p 11, 1949 Aug p 24 Prohaska, John T, 1969 Nov p 62 Prokhorov, Aleksandr M, 1958 Dec p 42, 1964 Dec p 60, 1965 Oct p 41, 1967 Nov p 28 Proskouriakoff, Tatiana, 1975 Oct p 73, 76 Prosser, C Ladd, 1962 Feb p 118, 1968 Mar p 110, 1970 July p 63 Protagoras, 1971 Mar p 50, 53, 1972 July p 40 Proudhon, Pierre J, 1954 Oct p 33 Proudman, James, 1968 Feb p 80 Prout, William, 1949 Feb p 31, 1956 Sept p 85, Nov p 93 Prouty, Winston L, 1977 Nov p 43 Provasoli, Luigi, 1949 Aug p 24 Provost, Maurice W, 1963 Dec p 134 Prowazek, Stanislas von, 1955 Jan p 75, 1964 Jan p 80 Proximire, William, 1975 July p 45, 1976 Apr Prudential Insurance Company, 1964 July p 48 Prudhommeau, Germaine, 1968 Aug. p 83 Pruitt, William O Jr., 1960 Jan. p. 61 Pryce, M H L, 1956 Feb p 54 Pryor, Helen S, 1949 Dec p 56 Pryor, M. G. M., 1954 Mar. p. 76 Pryor, William A., 1970 Aug. p. 70 Pryor, William C., 1949 Dec. p. 56 Prytherch, H F, 1953 Nov p 91 Przibram, Hans, 1977 July p 69 Psotka, J., 1970 Mar p 62 Ptahhotep, 1964 Aug p 46
Ptashne, Mark S. 1967 June p 52, 1970 June p 36, 40-42, 1974 June p 49, Aug. p 90, 1976 Jan. p 64, 74, Dec p 103 Ptolemaeus, Claudius, 1950 Apr p 49 Ptolemy, 1949 Apr p 47, 1950 May p 49, 1952 Aug. p 36, 1953 Feb p 80, 1956 Sept p 76. 77, 1962 July p 120, 1964 May p 110, Sept p 132, 1966 Oct p \$8, \$9, 91, 94, 97, 1967

Dec p 95, 1968 Sept p 97, 1972 Mar p 99-101, 1973 Dec p 86, 87, 95, 97, 1974 Jan p 104 Ptolemy, Claudius, 1959 June p 66, 1969 Nov p 87, 89, 1977 Oct p 79 Ptolemy II, 1954 Nov p 104, 1970 Oct p 112 Public Citizens' Health Research Group, 1974 Sept p 64 Public Service Company of Northern Illinois, 1953 July p 40 Public Service Company of Oklahoma, 1971 May p 72 Puccini, Giacomo, 1962 Dec p 113 Puchstein, Otto, 1956 July p 40, 41 Puck, Theodore T, 1953 Aug p 44, 1954 Dec p 64, 1956 Oct p 53, 1957 Jan p 64, 1959 Sept p 222, 1960 Apr p 145, May p 123, Sept p 207, 1961 Nov p 70, 1962 May p 142, 1964 Aug p 63 Puckle, James, 1977 Nov p 151 Pugh, H L, 1952 Apr p 56 Pugh, L G, 1967 May p 43, 1968 Jan p 51, 1970 Feb p 53 Pugh, Thomas F, 1963 July p 68 Pukowski, Erna, 1976 Aug p 84, 87, 89 Puleston, Dennis, 1967 Mar p 27 Puleston, Dennis E., 1977 Mar p 128 Pulitzer, Joseph, 1963 Mar p 129 Pullman Company, 1977 Aug p 98 Pullman, Maynard, 1968 Feb p 32, 34 Pullman, Maynard E, 1978 Mar p 113 Pullman, Theodore, 1961 Apr p 59 Pulvertaft, R J V, 1973 Oct p 30 Pupin, Michael, 1954 Apr p 64, 1958 Sept p 74, 77, 78, 81 Purcell, Edward M., 1948 Sept p 22, 23, 1952 June p 38, Dec p 29, 1953 Jan p 21, Dec p 43, 1954 Sept p 62, 63, 1956 Jan p 48, Oct p 56, 1957 Jan p 49, May p 53, July p 48, 1958 Apr p 64, Aug p 58-61, 64, 66, 1959 Dec p 95, 1961 Nov p 79, 1963 June p 94, Dec p 127, 1965 May p 68, July p 26, 1967 Nov p 28, 1974 Feb p 44, 1975 May p 42, 1977 June p 68 Purcell, J D, 1959 June p 55 Purchas, Samuel, 1953 June p 88 Purdue University, 1956 Apr p 60, 1958 Jan p 74, June p 25, July p 52, 1963 Mar p 86, June p 138, 1964 Dec p 75, 1965 Oct p 33, Dec p 79, 1966 Mar p 58, June p 97, 1971 Aug p 35, 36, 39 Purdy, Corydon T, 1974 Feb p 98 Purdy, J M, 1970 Dec p 51 Purkinje, Jan, 1972 May p 30, 1977 Jan p 60 Purkinje, Johannes E., 1950 Aug p 36, Oct p 48, 1958 Aug. p 85, 1970 Feb p 85, 1975 Jan p 58 Purves, Dale, 1974 Jan p 38 Pushkov, N , 1959 Nov p 88 Pussin, Jean-Baptiste, 1973 Sept p 119 Putnam, Frank W, 1953 May p 38, 39, 1967 Oct p 86, 1970 Aug. p 40, 1977 Jan p 52 Putnam, Hilary, 1967 Apr p 52, 1973 Nov p 85, 91 Putnam, Palmer, 1953 Nov p 52 Putnam, Sidney, 1972 Apr p 29 Putnam, Tracy J, 1953 Oct p 58 Puttemans, Emiel, 1976 June p 110, 111 Pye, David, 1965 Apr p 102 Pe, Kendall, 1967 Oct p 50 Pylarini, James, 1976 Jan p 112 Pyle, G L, 1956 Dec p 67 Pyle, Robert V, 1967 July p 83 Pyle, Robert W Jr., 1973 July p 31 Pym, Arthur G, 1956 Jan p 75 Pythagoras, 1949 Apr p 44, 1950 Mar p 28, 1952 Nov p 84, 1953 Jan p 52, 55, 1954

Nov. p. 82, 84; 1958 Sept. p. 60, 69; 1960 Oct. p. 145; 1962 Nov. p. 83; 1963 Feb. p. 134, 136; Nov. p. 78; 1964 June p. 104, 110; Sept. p. 52; 1965 Dec. p. 88; 1967 Dec. p. 116, 93, 95, 96, 98, 103; 1971 Sept. p. 180; 1972 June p. 82; 1973 Mar. p. 101; 1975 Mar. p. 110; 1977 July p. 124.

Q

Qamar, Anthony I., 1973 Mar. p. 26, 28. Qidong, Deng, 1977 Apr. p. 39. Quabbe, Hans-Jürgen, 1972 July p. 81. Quadagno, David M., 1976 July p. 51. Quadfasel, Fred, 1972 Apr. p. 80. Quadros, Jânio, 1963 Feb. p. 45. Quaker Oats Company, 1967 Feb. p. 29, 35. Quam, Lynn H., 1973 Oct. p. 69. Quarinonius, Hippolitus, 1968 Jan. p. 26. Quarles, Donald A. Jr., 1959 May p. 71; 1972 June p. 94. Quarrie, Donald, 1976 June p. 111. Quastel, J. H., 1954 Jan. p. 34. Quastler, Henry, 1961 Sept. p. 102; 1963 Aug. Quate, Calvin F., 1972 Oct. p. 60, 62. Quay, Wilbur, 1965 July p. 60. Quayle, H. J., 1952 Oct. p. 22. Qubilai, Khan, 1963 Aug. p. 55, 57, 59, 66, 68. Quebec Cartier Mining Company Ltd., 1968 Jan. p. 29. Quebec Hydroelectric Commission, 1964 May p. 39, 41. Quechua Indian Nation, 1970 Feb. p. 55. Quevedo, L. Torres y, 1950 Feb. p. 48, 51. Quibell, J. E., 1957 July p. 106. Quick, Armand J., 1951 Mar. p. 21. Quigley, Gary J., 1978 Jan. p. 58. Quilliam, T. A., 1960 Aug. p. 101. Quine, W. V., 1953 Apr. p. 54; 1973 May p. 82; 1975 May p. 51. Quinn, Helen, 1974 July p. 58. Quinn, William G. Jr., 1973 Dec. p. 37. Quintanilla, R., 1952 Feb. p. 52. Quiocho, F. A., 1968 Apr. p. 49.

R

Quist, T. M., 1962 Sept. p. 104; 1963 July p. 38.

Quiring, Daniel P., 1976 Jan. p. 94.

R. R. Donnelley & Sons, Co., 1972 Sept. p. 31. R. S. Peabody Foundation, 1964 Nov. p. 33; 1966 June p. 109; 1971 Apr. p. 36, 39. Raab, O., 1968 Sept. p. 170. Raacke, I. D., 1955 Aug. p. 50. Raath, Michael, 1975 Apr. p. 59. Rabe, Eugene K., 1961 Apr. p. 67, 68; 1976 June Rabelais, François, 1948 June p. 52; 1955 Feb. p. 83, 80; 1973 Aug. p. 36; Dec. p. 110. Rabi, Isador I., 1948 Sept. p. 21; 1949 Apr. p. 24; Dec. p. 14; 1954 Dec. p. 52; 1955 Mar. p. 50; June p. 32; July p. 50; Oct. p. 30; Dec. p. 46; 1956 Mar. p. 52; 1958 Apr. p. 64; 1965 May p. 65-66, 74; 1967 Nov. p. 25, 27, 30, 33; 1975 May p. 42; Oct. p. 108, 109, 113. Rabin, M. O., 1968 Oct. p. 98. Rabinovich, Sergio, 1968 Feb. p. 92. Rabinovich, Ya. S., 1970 Nov. p. 63. Rabinowicz, Ernest, 1962 Feb. p. 127; 1977 Jan. Rabinowitch, Eugene I., 1950 Aug. p. 21; 1953 Nov. p. 80, 82; Dec. p. 48; 1956 Apr. p. 105,

108; 1957 Sept. p. 107; 1960 Apr. p. 82; May p. 145; Sept. p. 202; Nov. p. 105; 1965 July p. 74; 1966 Nov. p. 65; 1974 Dec. p. 68. Rabinowitz, P., 1973 Feb. p. 89. Raboy, S., 1957 Oct. p. 56. Rabson, Alan S., 1969 Oct. p. 50. Racine, Jean B., 1954 June p. 81. Racker, Efraim, 1968 Feb. p. 92; 1976 June p. 46; 1978 Mar. p. 113, 123. Rackham, Thomas W., 1964 Mar. p. 56. Rackman, Thomas W., 1965 May p. 29, 31, 35. Raczynski, Jan, 1970 Dec. p. 80. Radcliffe College, 1961 Nov. p. 100. Radcliffe-Brown, A. R., 1957 May p. 43; 1959 June p. 156, 158. Radde, I., 1970 Oct. p. 50. Radford, H. E., 1965 July p. 33. Radhakrishnan, V., 1960 July p. 81; 1961 May p. 65; 1964 July p. 41; 1965 June p. 51, 52; 1968 Dec. p. 43; 1971 Dec. p. 27. Radicati, Luigi, 1965 Mar. p. 53. Radike, Arthur W., 1949 Aug. p. 18. Radio Corporation of America, 1949 Oct. p. 35; 1950 Oct. p. 25; Dec. p. 51; 1951 July p. 28; Dec. p. 34; 1952 June p. 38; Aug. p. 38, 51; Sept. p. 122, 123; 1953 Dec. p. 58; 1956 Mar. p. 88; 1961 July p. 91, 94; Sept. p. 84; 1962 Sept. p. 100; 1966 Jan. p. 58; Sept. p. 66, 81, 85; 1968 May p. 38, 44, 71; Sept. p. 114-116; 1970 Feb. p. 31; Apr. p. 100, 101; 1971 July p. 32; 1973 June p. 72; Aug. p. 49, 56, 57; 1977 Feb. p. 68, 73; May p. 42; Sept. p. 186, 64, 65. Radio Corporation of America Laboratories, 1953 Sept. p. 53; 1959 May p. 58; 1963 July p. 38; Nov. p. 52; 1973 Feb. p. 89, 97. Radio Corporation of Puerto Rico, 1961 Sept. Radlov, V. V., 1965 May p. 102. Rado, William G., 1964 Apr. p. 49. Radok, U., 1952 Oct. p. 27. Radon, J., 1975 Oct. p. 56. Raehlman, E., 1952 July p. 22. Raether, H., 1949 Feb. p. 23, 24, 26. Raff, Arthur D., 1961 Dec. p. 54; 1963 Nov. p. 70; 1967 Feb. p. 54; 1968 Apr. p. 57; Dec. p. 60, 61. Raff, Martin C., 1974 Nov. p. 63, 67, 69. Rafferty, Keen A. Jr., 1974 Feb. p. 38. Rafter, T. A., 1957 Nov. p. 70. Raftery, Michael A., 1977 Feb. p. 112, 113. Ragan, Richard, 1964 Aug. p. 44. Raghavan, V., 1966 Jan. p. 78. Raglan, Lord, 1954 Oct. p. 84. Rahm, David C., 1955 Feb. p. 48. Rahm, P. G., 1971 Dec. p. 31. Rahm, Urs, 1961 July p. 138. Rahn, Hermann, 1952 Nov. p. 38; 1960 Jan. p. 144; 1968 Aug. p. 68; 1969 Aug. p. 106. Raikes, Robert L., 1966 May p. 95. Railsback, O. L., 1948 July p. 40. Raimond, Ernst, 1968 Mar. p. 54; Aug. p. 60; Dec. p. 43. Rainbow, Cyril, 1961 June p. 146. Rainey, Froelich G., 1957 Oct. p. 83; 1968 June p. 27; 1969 Nov. p. 45. Rainey, R. C., 1963 Dec. p. 132. Rainwater, L. James, 1953 July p. 41; 1956 July p. 64; Oct. p. 96, 98; 1961 July p. 53; 1964 Mar. p. 86; 1972 Nov. p. 104; 1975 Dec. p. 48. Raisbeck, Gordon, 1956 July p. 104. Raisman, Geolfrey, 1976 July p. 55, 56. Raistrick, Harold, 1949 Aug. p. 33. Raitt, Russel W., 1961 Dec. p. 54. Raitt, Russell, 1951 Aug. p. 24. Raja of Goalpara, 1965 Oct. p. 26. Rajagopalan, S., 1955 Jan. p. 60.

Rajan, R. S., 1969 June p. 36. Rajewsky, Klaus, 1976 May p. 33. Rake, Geoffrey W., 1949 Nov. p. 50. Rakic, Pasko, 1978 Feb. p. 103. Rakob, F., 1978 Jan. p. 111. Raleigh Cycle Company, 1973 Mar. p. 88, 9 Raleigh, Elizabeth, 1976 Dec. p. 107. Raleigh, Walter, Sir, 1957 Jan. p. 74; 1975 Ju Rall, Theodore W., 1969 June p. 78; 1971 De p. 38; 1972 Aug. p. 97; 1977 Aug. p. 109, 1 Rall, Waldo, 1954 June p. 30. Rall, Wilfrid, 1978 Feb. p. 95. Ralls, Katherine, 1976 Sept. p. 68. Ram, Jagjivan, 1974 July p. 46. Ram, Sunkar, 1970 Jan. p. 79. Ramachandran, G. N., 1961 May p. 121. Raman, Chandrasekhara V., Sir, 1962 Nov. p. 83; 1964 Apr. p. 38, 48; 1967 Nov. p. 27; 1968 Sept. p. 124, 131; 1973 June p. 44; 1974 Jan. p. 89, 91. Ramanis, Zenta, 1965 Jan. p. 75. Ramanujan ('Aiyangar'), Srinivasa, 1948 June p. 54-57; 1950 Sept. p. 41; 1958 Sept. p. 178; 1964 Sept. p. 206. Ramaty, Reuven, 1976 Oct. p. 78. Ramazzini, Bernardino, 1958 Aug. p. 33. Rambourg, Alain, 1969 Feb. p. 103. Rameau, Jean-Philippe, 1956 Feb. p. 84; 1967 Dec. p. 98, Rameses II, 1960 May p. 98. Ramey, James T., 1962 Sept. p. 100; 1964 May p. 60. Ramian, Gerald J., 1977 June p. 64. Ramirez, J. Emilio, 1949 Feb. p. 43. Ramon, G., 1968 Apr. p. 76. Ramón y Cajal, Santiago, see: Cajal, Santiago Ramón v. Ramond, Pierre, 1975 Feb. p. 67; 1978 Feb. p. 136. Ramon-Moliner, Enrique, 1971 July p. 49. Ramos, A. Escalona, 1975 Oct. p. 77. Ramos, Pedro, 1959 May p. 73. Ramsay, Allan, 1969 July p. 39. Ramsay, D. A., 1960 May p. 137. Ramsay, J. A., 1962 Aug. p. 104. Ramsay, O. A., 1958 Mar. p. 84. Ramsay, William, Sir, 1950 June p. 52; 1957 Jan. p. 80; 1958 Feb. p. 76; 1964 May p. 66; 1966 Aug. p. 91-93; Oct. p. 64; 1967 Nov. p. 26; 1975 Sept. p. 43. Ramsbottom, John, 1952 Jan. p. 30; 1956 May p. 100; 1966 Jan. p. 77. Ramseier, René O., 1962 Sept. p. 135. Ramses II, 1952 July p. 20. Ramses XI, 1954 Nov. p. 98. Ramsey, Norman F., 1953 Dec. p. 43; 1962 Aug. p. 55; 1963 July p. 65; 1965 May p. 59, 70, 72, 74; 1974 Feb. p. 74. Ramsey, William H., 1954 Feb. p. 78; 1955 Sept. p. 61.; 1966 Oct. p. 30; 1968 Feb. p. 75. Ramskou, Thorkild, 1967 July p. 44; 1976 July Ramsperger, H. C., 1964 July p. 105. Ramus, 1950 May p. 48. Ranck, James B. J., 1977 June p. 93. Rand, Austin L., 1963 Aug. p. 43. Rand Corporation, 1960 Aug. p 60; Oct. p 137; 1965 Sept. p. 167, 169; Oct. p. 26; 1970 July p. 95; 1971 Feb. p. 44; 1972 Aug. p. 44, 1973 Nov. p. 21, 23; 1977 Sept. p. 222. Randall, Henry T. 1949 May p 28 Randall, John, Sir. 1974 Oct p 51 Randall, M. J., 1973 Mar p 33 Randasji, Shri, 1951 Mar p 31 Randell, John E., 1961 Aug. p. 45, 48 Randers, Gunnar, 1951 Nov p 33, Dec. p. 31

Randolph, Edmund, 1967 June p 20 Randolph, Isaac M, 1977 Nov p 70 Randolph, Lord, 1977 Dec p 88 Random House, 1969 Apr p 37 Randt, Clark T, 1970 Jan p 39 Ranelagh, Lady, 1967 Aug p 97 Rangecroft, P D, 1974 May p 67 Rank, D H, 1955 Aug. p 65-67 Rank, David M, 1969 Feb p 42, Apr p 50, 1973 Mar p 53 Rankin, William, 1959 Jan p 66 Rankine, William J M, 1977 Aug p 98 Ranney, Helen M, 1964 Nov p 75 Ransburg Electro-Coating Corp, 1972 Mar p 47, 53 Ransmeier, Robert E, 1953 Sept p 120 Ransom, 1948 Oct p 34, 1963 Mar p 124 Ransome-Kuti, Olikoye, 1972 Oct p 75 Ranson, Gilbert, 1957 Aug p 113, 118 Ranson, S W, 1956 Nov p 109 Rao, D B R. Ramachandra, 1948 June p 55-Rao, Potu N, 1974 Jan p 59, 61, 63 Rao, Y K, 1977 Oct p 123 Rapacki, Adam, 1975 Nov p 28, 29 Raper, Henry S, 1961 July p 99 Raper, Kenneth B, 1949 June p 44, 1959 Dec p 154, 156, 158, 1961 Sept p 144, 1963 Aug p 84, 91, 93, 1969 June p 80 Raphael, 1956 Jan p , 1964 Feb p 115, 117, Sept p 60, 1977 June p 126 Rapkin, Chester, 1965 Sept p 164 Rapoport, I A, 1960 Jan. p 102 Rapoport, Stanley I, 1973 Aug p 96 Rapp, Fred, 1966 Mar p 34 Rapp, Herbert J, 1973 Nov p 57 Rappaport, Roy A, 1971 Sept p 117 Rappaport, Saul A, 1969 July p 52, 1977 Oct. Rappleyea, George W, 1959 Jan p 121, 124, 125, 1969 Feb p 18, 19 Rappoport, J A, 1949 Oct p 48 Rapport, Maurice M, 1974 Feb p 84 Ranta, William R., 1978 Feb p 137 Raschig, Friedrich, 1953 July p 30 Rasetti, Franco, 1953 Oct p 51, 1958 Feb p 77 Rasmussen, Howard, 1964 Jan p 73, 1970 Oct p 49, 42, 48, Dec p 89 Rasmussen, Norman C, 1976 Jan p 25, 26 Rasmussen, Theodore B, 1955 Dec p 56 Rasmusson, Eugene M., 1970 Sept. p. 62, 1973 Apr p 56 Raspet, August, 1954 Aug. p 77 Rasputin, 1965 Aug. p 93 Ratcliffe, Derek, 1970 Apr p 73, 77 Ratclisse, F N, 1954 Feb p 32, 33 Ratcliffe, H E., 1962 Aug. p 118 Rathje, William L. 1975 Oct p 73 Rathjens, Carl, 1969 Dec. p 36 Rathjens, George W, 1969 Apr p 15, Aug. p 18, 22, 29, 1970 Jan p 19, June p 46, 1971 Jan p 24, Nov p 48, 1972 Dec p 40, 1973 Nov p 27, 1977 Apr p 52, 1978 Feb p 76 Rathkamp, R., 1960 Aug. p. 100, 101 Rathmayer, Werner, 1963 Apr. p. 149 Rathff, Floyd 1961 July p 113, 1963 July p 123, 1966 May p 107, 1967 May p 48, Dec p 48, 1977 Jan p 73 Raulston John T, 1959 Jan p 123-125, 128, 1969 Fcb p 19, 20 Rault, Jacques, 1977 Dec. p. 140 Rauwolfia, Leonhard 1955 Oct. p 81 Ravdin, I S., 1958 Jan p 46 Raven H C., 1951 Mar p 42 Ravenhall, G. D. 1956 July p. 63, 64 Ravetz, Jereme R., 1966 Oct. p. 58, 1973 Dec

p 97 Ravitch, Mark M, 1962 Oct p 48 Ravitz, Leonard J Jr, 1960 Mar p 154 Rawitz, E., 1956 Apr p 43 Rawles, Mary E, 1959 Mar p 90, 92 Rawlinson, Henry, 1960 Oct. p 69 Rawlinson, W R., 1969 Nov p 57 Rawson, Don C, 1978 June p 88 Ray, Carleton, 1957 June p 55. Ray, Ernest, 1959 Mar p 42 Ray, Isaac, 1969 July p 43 Ray, John, 1956 Aug p 63 Ray, Peter M, 1975 Apr p 95 Ray, Verne F, 1954 Oct p 50 Ray, William J Jr, 1962 Sept p 108, 1963 Mar p 91 Ray-Chaudhuri, D K., 1962 Feb p 102, 104, Rayfield, George W, 1964 Dec p 117 Rayleigh, Lord, 1976 Aug p 77see Strutt, John Rayment, J C, 1969 Feb p 95 Raymond Rich Associates, 1949 June p 29 Raynaud, Jean-Pierre, 1976 July p 57, 58 Rayner, C A A, 1962 Apr p 122 Raytheon Corporation, 1949 Apr p 30, 1953 Aug p 42, 1955 June p 94, 1957 Sept p 110, 1965 Apr p 78, 1968 Aug p 30, 1970 Sept p 99, Dec p 96, 1973 Oct p 24, 1977 Oct. p 92 R.C.A., see Radio Corporation of America RCA-Victor of Canada, 1960 Apr p 90 Rea, D G, 1965 Aug. p 26 Reaction Motors, Inc, 1953 Oct p 37, 38 Reaction Motors, Inc, 1966 July p 107 Read, Deborah, 1972 Apr p 57 Read, John, 1959 Sept p 98 Read, W Thornton Jr, 1955 July p 82, 1961 Oct p 114, 1966 Aug p 31, 1972 Feb p 13 Reader, Robert W, 1976 Apr p 45 Reading, Harold, 1972 Mar p 30 Ready, Donald F, 1973 Dec p 35, 36 Reagan, Ronald, 1976 June p 22, 23 Real, James, 1960 Dec p 76 Reaney, Tom, 1975 Nov p 112 Reasbeck, P, 1960 Nov p 173 Reasoner, David L, 1976 Mar p 61 Reaumur, Rene A F de, 1948 Dec p 29, 1955 Oct. p 100, 1957 Dec p 119, 1967 Sept p 74, 1970 Occt p 114, 115, 1972 Jan p 87 Reaves, Gibson, 1964 May p 80 Reba, Imants, 1966 June p 84 Rebbi, Claudio, 1977 Mar p 64 Rebentisch, W, 1955 Nov p 45 Reber, Grote, 1950 Feb p 37, Oct p 39, 1953 Jan p 18, 20, 1955 Mar p 41, 42, 1956 July p 37, Oct p 56, 1964 Aug. p 13, 14 Rebhun, Lionel I. 1974 July p 48 Rebka, Glen A Jr, 1960 Jan p 72, Mar p 84, Apr p 80, May p 88, Dec p 78, 1963 Oct. p 41, 1974 Nov p 28 Rebstock, Mildred C, 1949 Aug. p 32 Reck, Hans, 1954 Jan p 67 Record, R G, 1951 Apr p 35 Recovery Incorporated, 1971 Mar p 41 Reddi, K. K., 1966 Feb p 34 Reddick, Donald 1959 May p 102. Reddish, V C, 1963 Dec p 56, 1968 Aug. p 59, 1973 June p 34 Redekopp, Larry G , 1976 Mar p 56 Redfearn, Joe, 1971 Mar p 65 Redi, Francesco, 1950 Feb p 41, 1954 Aug p 45, 1956 Oct p 90 Rediker, R H, 1963 July p 38 Redl, Fritz, 1954 Mar p 40, 1963 June p 146 Redlich Frederick C, 1953 Apr p 44, June p 50, 1954 Mar p 41, 1956 Feb p 31, 1960

Mar p 154, 1962 Aug. p 72 Redman, Colvin M, 1975 Oct p 31 Redman, R O, 1962 Feb p 53, 54, 56 Reece, B Carroll, 1949 Feb p 19, 1954 Mar p 44, Sept p 70, 1955 Feb p 56, Mar p 51 Reed, Charles A, 1960 Sept p 146, 197, 1975 Dec p 54 Reed, Murray O, 1969 Feb p 15 Reed, Stanley F, 1951 July p 30 Reed, Thomas B, 1971 Nov p 28 Reed, W Maxwell, 1949 Dec p 52, 53 Reed, Walter, 1951 May p 43, 1967 Jan p 111 Reed, William M, 1949 Dec p 54 Reeke, G N, 1968 Apr p 49 Rees, Abraham, 1971 Oct. p 96, 101 Rees, D. 1961 May p 158 Rees, John, 1977 Oct p 61 Rees, John R., 1975 June p 55 Rees, Martin J, 1963 Jan p 55, 1970 June p 26, Dec p 25, 1971 May p 29, 1972 Feb p 80, 1974 Dec p 40, 43, 1975 Aug p 31, 1977 Oct p 49, 51 Rees, Mina S, 1970 Feb p 44 Rees, William, 1974 Aug p 96 Reese, Algernon B, 1955 Dec p 43 Reese, D F, 1975 Oct p 65. Reese, David, 1978 Jan. p 117 Reese, Thomas S, 1975 Oct p 36, 1978 Feb p 96 Reeves, Alec H, 1968 Mar p 104, 1972 Sept p 103, 110 Reeves, Edmond M, 1973 Oct. p 74, 78 Reeves, Hubert, 1962 Aug. p 94, 95, 1974 Jan p 77, May p 114, 115 Reeves Instrument Company, 1949 Apr p 30 Reeves, Lige, 1960 Feb p 44 Reeves, Robert G, 1950 July p 22, 1973 Jan p 45 Reeves, W C, 1949 Sept p 20 Regan, Timothy J, 1965 June p 58 Regel, A R., 1977 May p 36 Regelson, William, 1968 Feb p 52 Regener, Victor H, 1964 Mar p 71 Regge, Tullio, 1962 Nov p 70, 1964 Jan p 54, Feb p. 86, 1974 July p 71, 1975 Feb p 62, 1976 Nov p 58, 1977 Apr p 125, 127 Regiomontanus, see Muller, Johannes Regnard, Paul, 1958 Oct. p 37 Regnier, Fred E, 1971 July p 45, 1975 June p 34, 35 Rehn, Louis, 1960 Feb p 79 Reich, Edward, 1965 Jan p 78, 1974 July p 87, Aug p 82 Reichard, Peter, 1968 Oct p 75 Reichardt, Louis, 1976 Jan p 76 Reiche, P. 1969 Feb p 44 Reichenau, Hermann von, 1974 Jan p 104 Reichenbach, Hans, 1953 Sept p 128, 1967 Jan p 102 Reichley, Paul E., 1971 Feb p 30 Reichsman, Franz K., 1972 July p 77 Reichstein, Tadeus, 1950 Mar p 33, Dec p 26, 1951 Mar p 36, 1953 Nov p 56, 1955 Jan. p 59, 60, Sept p 76, 1967 Nov p 28, 1969 Feb p 22, 24, 25 Reid, Allen F, 1953 Nov p 58 Reid, Charles E., 1957 Mar p 45 Reid, D D, 1961 Oct. p 54 Reid, E. Emmet, 1956 Nov p 79 Reid, Harry F, 1977 Dec p 69 Reid, J. Gilman, 1955 Aug. p. 29, 33 Reid, J. M., 1978 May p. 98 Reid, James, 1966 May p 49 Reid, Mark J., 1978 June p 101 Reid, Robert C., 1977 Apr p 22 Reif, Arnold E., 1976 May p 30, 33 Reif, F., 1952 Aug p 52, 1964 Dec. p 116, 1965

Oct. p. 67. Reifenstein, E. C. III, 1971 Jan. p. 52. Reifler, Erwin, 1956 Jan. p. 30-33. Reik, Theodor, 1960 Mar. p. 154; 1966 Aug. Reiling, Victor G., 1951 Oct. p. 54, 55. Reilly, E. F., 1977 June p. 70. Reilly, James J., 1973 Jan. p. 20. Reinach, Salomon, 1975 Feb. p. 41. Reiner, Marcus, 1962 Feb. p. 117. Reiners, W. A., 1978 Jan. p. 36. Reines, Frederick, 1953 Nov. p. 50; 1956 Jan. p. 58, 61, 68; Aug. p. 48; 1962 Aug. p. 90, 92, 93, 98; 1963 Mar. p. 63; Oct. p. 45; 1965 Oct. p. 38; 1966 Feb. p. 40, 43, 40, 43, 43; 1969 July p. 29; 1973 Aug. p. 30, 33. Reinhard, Don, 1977 May p. 48. Reinhardt, William O., 1953 May p. 58. Reinhart, F. K., 1968 June p. 21. Reinhart, Warren H., 1970 Mar. p. 90. Reinhold, Erasmus, 1973 Dec. p. 97-99. Reinitzer, Friedrich, 1964 Aug. p. 77. Reisberg, Ruth, 1969 June p. 82. Reisch, Gregor, 1964 May p. 109. Reisfeld, Ralph A., 1974 Apr. p. 36. Reish, Donald, 1974 Aug. p. 24. Reisman, David, 1958 June p. 26. Reisner, Yair, 1977 June p. 119. Reiss, Eric, 1963 Nov. p. 65. Reiss, O. K., 1957 Oct. p. 128. Reist, Adolf, 1961 Oct. p. 76. Reitman, Judith, 1971 Aug. p. 87. Reitz, Sandra, 1969 Jan. p. 84. Reiz, A., 1954 July p. 35. Rékésy, Georg von, 1973 Oct. p. 98. Relton, Frederick E., 1963 Jan. p. 128, 130. Rembrandt van Rijn, 1971 June p. 95; 1973 Sept. p. Remensnyder, John P., 1969 June p. 48. Remington, Charles L., 1967 June p. 113. Remington, Frederic, 1970 Dec. p. 108. Remington, Jack S., 1977 May p. 76. Remington Rand Inc., 1953 May p. 55; 1954 Jan. p. 22, 23, 25; 1955 June p. 95. Remmers, H. H., 1958 June p. 25. Rempel, William E., 1966 June p. 97. Remsberg, Louis P., 1978 June p. 71. Remus, 1963 Aug. p. 60. Renck, Richard, 1955 Apr. p. 50. Rencontres Internationales de Genève, 1953 Sept. p. 52. Reneker, Darrell H., 1977 Dec. p. 138. Renfrew, Colin, 1968 May p. 30; 1971 Feb. p. 47; Oct. p. 63; 1972 May p. 100; 1976 June p. 81. Renkin, Eugene M., 1960 Dec. p. 155, 156. Renkonen, K. O., 1977 June p. 111. Renner, J., 1961 Dec. p. 84. Renner, Max, 1962 Aug. p. 78. Renner, Otto, 1950 Nov. p. 35. Rennie, Donald W., 1967 May p. 43. Rennie, John, 1954 Nov. p. 64; 1970 Oct. p. 117. Rennie, Thomas A., 1962 Aug. p. 72. Rennie, Thomas A. C., 1954 Mar. p. 42. Rennilson, J. J., 1967 Nov. p. 35; 1973 Jan. p. 49. Reno High School, 1958 Apr. p. 64. Renoir, Pierre A., 1955 Nov. p. 82; 1974 Sept. Renold, Hans, 1973 Mar. p. 86, 88. Rensch, Bernhard, 1950 Jan. p. 33; 1956 June p. 66; 1957 Feb. p. 44; 1968 June p. 73. Renshaw, Birdsey, 1978 Feb. p. 94. Renshaw, Bridsey, 1966 May p. 103, 104, 107. Rentzepis, Peter M., 1973 June p. 55; 1974 Dec. Renwick, J. A. A., 1966 Dec. p. 65.

Renwick, James H., 1971 Apr. p. 110. Renzetti, N. A., 1963 July p. 84. Reppe, J. Walther, 1949 Jan. p. 18, 20. Reppy, John D., 1976 Dec. p. 69, 70. Republic Steel Corporation, 1948 May p. 54, 56, 57; 1952 Jan. p. 50, 51; 1963 Dec. p. 76. Resad, 1960 Nov. p. 166. Research Corporation, 1972 Dec. p. 42. Research Institute for Advanced Studies, Baltimore, 1965 July p. 77. Research Institute for Educational Problems, 1970 Nov. p. 44. Research Triangle Institute, 1964 Nov. p. 80. Research-Cottrell, Inc., 1972 Mar. p. 51. Reshevsky, Samuel, 1973 June p. 93. Reske, Konrad, 1977 Oct. p. 99. Resler, Edwin L., 1954 Sept. p. 132 Resources for the Future, Inc., 1963 Sept. p. 113, 126; 1970 Feb. p. 91; Sept. p. 184. Ressler, Charlotte, 1953 Dec. p. 52. Retherford, Robert C., 1948 Sept. p. 16, 20-22; 1953 Apr. p. 61; 1955 Dec. p. 46; 1965 May p. 68, 69; Dec. p. 39. Reti, Ladislao, 1971 Feb. p. 101; 1975 July p. 50. Reti, Richard, 1974 Nov. p. 52. Rettenmeyer, Carl W., 1972 Nov. p. 72. Retzius, Gustaf M., 1974 Jan. p. 41. Reu, Warren de la, 1971 May p. 86. Reubens, Beatrice, 1976 Dec. p. 25. Reusch, Hans H., 1964 Aug. p. 29, 30, 32. Reuss, Alexander, 1951 Dec. p. 45. Reuter, O. M., 1963 Apr. p. 145. Reuther, Walter P., 1956 Mar. p. 49; 1966 Mar. Revel, Helen R., 1970 Jan. p. 91. Revel, Jean-Paul, 1969 Feb. p. 105; 1974 Oct. p. 44; 1978 May p. 145. Revel, Michel, 1976 Aug. p. 69. Revelle, Roger, 1951 Jan. p. 29; 1952 Oct. p. 58. 60; 1956 July p. 48; 1958 Aug. p. 49; 1959 Apr. p. 41; 1960 Apr. p. 83; 1961 Dec. p. 56; 1970 Sept. p. 166; 1971 Oct. p. 40; 1974 Sept. p. 161, 169, 34; 1976 Sept. p. 165, 39, 201. Reverdin, Jacques L., 1957 Apr. p. 62. Reverdy, Georges, 1964 Nov. p. 116. Rey, Lars, 1963 June p. 55. Reyer, Eduard, 1961 Feb. p. 98. Reynafarje, Baltazar, 1978 Mar. p. 121. Reynafarji, Baltazar, 1955 Dec. p. 68. Reyniers, James A., 1950 Oct. p. 49; Dec. p. 26; 1955 May p. 34; 1964 July p. 78. Reynolds, Barbara, 1976 Aug. p. 99. Reynolds, C. N., 1950 Jan. p. 23. Reynolds, Colin, 1977 Aug. p. 97. Reynolds, Donald M., 1952 Jan. p. 38. Reynolds, Edward S., 1975 June p. 23. Reynolds, Harold C., 1953 June p. 88. Reynolds, John H., 1954 July p. 35; 1960 Feb. p. 72; Apr. p. 85; 1961 June p. 86; Nov. p. 63; 1963 Mar. p. 73; Oct. p. 65, 68; 1965 Oct. p. 35; 1971 June p. 55; 1974 Jan. p. 74. Reynolds, Osborne, 1952 June p. 26; 1954 Aug. p. 73; 1964 Oct. p. 67, 68; 1966 Mar. p. 62, 63; Aug. p. 64; 1967 Jan. p. 65, 66; 1968 Jan. p. 109, 110; 1970 July p. 72, 73; 1975 July p. 52; Nov. p. 83, 84, 85; 1976 Nov. p. 74. Reynolds, Ray T., 1969 Mar. p. 87, 88. Reynolds, S. R. M., 1958 Apr. p. 43. Reynoso, Plácido G., 1977 Nov. p. 70. Rhaese, H. J., 1970 Aug. p. 75. Rhazes, 1948 May p. 25. Rheem Manufacturing Company, 1961 Nov. p. 98. Rheticus, Georg, 1973 Dec. p. 97-99. Rhian, Morris, 1953 Apr. p. 29. Rhijn, Pieter J. van, 1972 Jan. p. 81; 1977 Apr.

p. 101, 104. Rhind, A. Henry, 1952 Aug. p. 24, 25, 27; 1964 Sept. p. 41. Rhine, Joseph B., 1956 Mar. p. 60; 1972 Dec. p. 87; 1974 Sept. p. 72. Rho, Joon H., 1972 Oct. p. 86. Rhoades, Marcus, 1950 Nov. p. 32, 35; 1951 Aug. p. 45. Rhoads, Jonathan, 1971 May p. 51. Rhoden, Curtis H., 1952 Aug. p. 52; 1968 Feb. p. 92. Rhodes, Cecil, 1949 Oct. p. 31. Rhodes-Livingstone Museum, 1958 July p. 78. Rhodin, Johannes A., 1963 June p. 87, 88. Rhôhne-Poulenc Research Centre, 1964 Jan. Rhykerd, Charles L., 1976 Sept. p. 75. Ribak, Charles E., 1978 Feb. p. 97. Ribbands, C. R., 1953 July p. 62. Ribble, Margaret A., 1972 July p. 76. Ribe, Fred L., 1966 Dec. p. 21. Ribera, José, 1952 July p. 25. Ribicoff, Abraham A., 1961 Oct. p. 49. Ricardo, David, 1954 Oct. p. 33. Ricardo, Harry, 1950 Feb. p. 18: 1967 Mar. Riccardi, Niccolo, 1973 Apr. p. 94. Ricci, Gregorio, 1964 Sept. p. 68. Riccioli, G. B., 1973 Dec. p. 87. Ricciuti, C., 1974 July p. 40. Rice, C. W., 1961 Aug. p. 80. Rice, Francis O., 1953 Dec. p. 75, 76; 1957 Mar. p. 92; 1964 July p. 35, Rice Institute, 1965 Mar. p. 68. Rice, Oscar K., 1964 July p. 105. Rice, Robert V., 1965 Dec. p. 22. Rice, T. Maurice, 1976 June p. 34, 36. Rice University, 1963 May p. 89; 1965 Dec. p. 55; 1966 July p. 75. Rich, Alexander, 1955 Oct. p. 76; 1957 Sept. p. 182, 188; 1961 May p. 121; 1963 Feb. p. 69; Mar. p. 76, 91; 1964 Mar. p. 55; May p. 51, 55; 1965 Jan. p. 48; 1966 Apr. p. 104; 1969 Mar. p. 50; 1978 Jan. p. 52. Rich, Arthur, 1968 Jan. p. 85. Rich, Wilma S., 1949 June p. 29. Richard, Alain, 1972 Dec. p. 99. Richard II, King, 1951 Feb. p. 60. Richards, A. G., 1953 Feb. p. 31. Richards, Alfred N., 1949 July p. 26; 1953 Jan. p. 41; 1962 Aug. p. 100, 102. Richards, D. H., 1975 July p. 74. Richards, David W., 1969 Jan. p. 46. Richards, Dickinson W., 1956 Dec. p. 52. Richards, Dickinson W. Jr., 1967 Nov. p. 28. Richards, Felix, 1961 Feb. p. 91; 1965 Nov. p. 109. Richards, John H., 1974 July p. 81. Richards, Oscar W., 1961 Sept. p. 53. Richards, Paul L., 1965 June p. 61; 1973 Oct. p. 23; 1978 May p. 66. Richards, Stephanie, 1966 July p. 107. Richards, Theodore W., 1949 Dec. p. 14; 1953 Mar. p. 72; 1954 July p. 36, 1967 Nov p 26. Richards, Whitman, 1971 May p. 89; June p. 42, Richards, William C., 1950 Oct. p. 31 Richards, Witman A., 1977 Jan. p. 72. Richardson, Bob, 1977 Oct. p. 79. Richardson, Bruce, 1952 Nov p. 36, 37, Richardson, Charles C., 1968 Oct p 75 Richardson, David, 1952 June p 50 Richardson, E. G., 1960 Oct. p 151 Richardson, Elliot L., 1971 Apr p 18, 1972 Apr. p. 55; 1973 June p. 38, Aug. p. 12, 14; 1978 Apr. p. 78. Richardson, Henrietta, 1951 Nov. p. 30

Richardson, Jack, 1964 Mar. p. 93. Richardson, John, Sir, 1965 Nov. p. 110. Richardson, L. F., 1951 Dec. p. 35; 1952 June p. 27; 1964 Oct. p. 69, 70. Richardson, Martin C., 1973 June p. 60. Richardson, O. W., 1950 Oct. p. 33; 1965 Mar. p. 96; 1967 Nov. p. 27; 1969 Mar. p. 111. Richardson, O.W., 1956 Nov. p. 104. Richardson, Philip, 1976 Aug. p. 44D. Richardson, Robert C., 1974 Dec. p. 66; 1976 Dec. p. 67. Richardson, Robert S., 1949 Dec. p. 53; 1951 June p. 31; 1960 Feb. p. 62; 1975 Sept. p. 71, Richardson, Stephen H., 1968 Feb. p. 39; 1971 Aug. p. 20. Richdale, L. E., 1957 Dec. p. 48; 1970 Nov. p. 84. Riche, W. H. le, 1969 June p. 58. Richens, R. H., 1949 Dec. p. 30; 1956 Jan. p. 30. Richet, Charles, 1948 July p. 28; 1951 July p. 20; 1961 Jan. p. 134; 1963 Dec. p. 92; 1964 Mar. p. 41; 1967 Nov. p. 26. Richey, Frederick D., 1951 Aug. p. 42. Richley, Paul, 1971 Dec. p. 28. Richmond, Duke of, 1957 Dec. p. 118. Richmond, H. W., 1977 July p. 123. Richmond, Timothy J., 1974 June p. 50. Richter, Burton, 1966 Nov. p. 111; 1975 Jan. p. 48; June p. 54, 56; Oct. p. 47; 1976 Dec. p. 50; 1977 Oct. p. 59, 61; 1978 Mar. p. 50. Richter, Charles F., 1955 Sept. p. 57, 59; 1962 June p. 58; 1969 Nov. p. 105; 1971 Nov. p. 54; 1973 Mar. p. 26; 1977 Apr. p. 35; Dec. p. 71, 72. Richter, Curt P., 1948 Dec. p. 52; 1950 Mar. p. 39; 1951 Dec. p. 42; 1957 Dec. p. 50; 1958 Apr. p. 106; 1960 Mar. p. 126; Sept. p. 71; 1964 Nov. p. 117; 1966 Apr. p. 89; 1971 June p. 97. Richter, Frank, 1976 Nov. p. 72. Richter, Ronald, 1951 May p. 33. Richter, Rudolf, 1967 Aug. p. 72, 75. Richthofen, Ferdinand von, 1963 July p. 90. Richtmyer, R. D., 1949 Aug. p. 24. Rick, John P., 1977 Feb. p. 96. Rickenberg, Howard, 1972 Feb. p. 36. Ricker, William E., 1970 Sept. p. 70. Rickett, B. J., 1968 Oct. p. 30. Ricketts, Howard T., 1955 Jan. p. 75. Rickover, Hyman G., 1953 Dec. p. 48; 1972 June p. 23. Riddiford, Lynn M., 1956 Aug. p. 31; 1967 July Riddle, Jeanne M., 1972 Jan. p. 87, 93; Oct. p. 70. Riddle, Oscar, 1970 Mar. p. 90. Rideal, Eric, Sir, 1959 Oct. p. 77; 1961 Mar. p. 152; 1966 Nov. p. 86; 1971 Dec. p. 50. Ridenour, Louis N., 1949 Mar. p. 16, 18; 1950 Apr. p. 18, 20, 22; June p. 11, 14; Sept. p. 46; 1952 July p. 29; Sept. p. 62. Ridgeon, Colenso, Sir, 1968 Mar. p. 49. Ridgeway, S. T., 1976 May p. 114. Ridgway, Ellis B., 1970 Apr. p. 84, 90; 1977 Nov. p. 133. Ridgway, Sam H., 1970 Mar. p. 64. Ridker, Ronald G., 1974 Feb. p. 42. Ridley, B. K., 1966 Aug. p. 28-30. Ridley, Frederick T., 1962 Mar. p. 110. Ridwan, Ali ibn, 1965 May p. 57. Riecken, Henry W., 1961 Jan. p. 79. Rieckert, H., 1972 Feb. p. 88. Rieckhoff, Klaus E., 1968 Sept. p. 132. Ried, Hugh, 1966 May p. 43. Riedel, Klaus, 1949 May p. 36. Rieder, Werner, 1971 Jan. p. 76.

Riedl, R. J., 1969 Apr. p. 52. Riedman, Sarah H., 1949 Dec. p. 54. Riege, Walter H., 1971 Sept. p. 84; 1972 Feb. p. 27. Riegler, Guenter, 1966 Oct. p. 44. Riehl, Herbert, 1953 Nov. p. 33. Rieke, George H., 1973 Apr. p. 38; 1974 Apr. p. 71, 72. Riemann, Bernhard, 1950 Jan. p. 20, 22; Apr. p. 15, 16; 1952 Nov. p. 78; 1954 Nov. p. 80, 82-86; 1956 Mar. p. 108, 110; June p. 76; Sept. p. 137; 1967 Dec. p. 111, 115, 116; 1969 Nov. p. 88, 89, 98; 1976 Aug. p. 98, 99; 1977 July p. 128; 1978 Feb. p. 131. Riemann, George F. B., 1953 Feb. p. 79-81; 1958 Mar. p. 100; 1963 Feb. p. 110, 111; 1964 Sept. p. 47, 48, 67-69. Ries, Herman E. Jr., 1970 Mar. p. 111. Riesen, Austin H., 1955 Feb. p. 74, 75; 1961 May p. 69; 1965 Nov. p. 94; 1972 July p. 78. Rieser, Peter, 1951 June p. 62. Riesfeld, Ralph A., 1973 Jan. p. 24. Riesman, David, 1962 May p. 47, 48. Riess, L., 1963 Nov. p. 96, 98. Rietdijk, J. A., 1965 Apr. p. 125. Riffenburgh, Robert H., 1962 June p. 138. Rifkind, Richard A., 1962 Nov. p. 52. Rigal, W. M., 1972 July p. 81. Rigaud, S. P., 1964 Mar. p. 100, 105, 106. Rigby, Malcolm, 1961 Feb. p. 68. Rigden, J., 1973 Feb. p. 89. Rigden, J. D., 1963 July p. 38. Riggs, Arthur D., 1970 June p. 43; 1977 Jan. p. 47. Riggs, Austen F., 1963 Nov. p. 113. Riggs, Lorrin A., 1961 June p. 72. Righi, Augusto, 1961 Dec. p. 124. Righini, Guglielmo, 1961 Dec. p. 76. Riker, William H., 1976 June p. 23. Rilchey, G. W., 1956 Sept. p. 79. Riley, Conrad M., 1957 July p. 96. Riley, Gordon A., 1951 Aug. p. 24; 1957 Nov. p. 55; 1964 Nov. p. 60; 1970 Sept. p. 47. Ríley, J. A., 1978 Jan. p. 113. Riley, J. W., 1949 Sept. p. 26. Riley, William B., 1969 Feb. p. 18, 20. Rimbaud, J. N. Arthur, 1958 Sept. p. 162. Rimpau, W., 1974 Aug. p. 73. Rinaldi, F., 1955 Oct. p. 81. Rinard, Phillip M., 1976 Nov. p. 70. Rinde, H., 1951 June p. 43. Riney, Thane, 1960 Nov. p. 134. Ring, James, 1965 May p. 31. Ringer, Sydney, 1957 May p. 85. Ringo, G. R., 1957 Oct. p. 56; 1959 Mar. p. 82. Ringwood, Albert E., 1963 Mar. p. 49; 1975 Nov. p. 95; 1977 Mar. p. 104. Ringwood, Alfred E., 1978 Apr. p. 132. Rinia, Herre, 1965 Apr. p. 121; 1966 Mar. p. 66; 1973 Aug. p. 82, 83. Rink, John P., 1977 Feb. p. 96. Rinkel, Murice, 1961 Apr. p. 108. Rinzel, John, 1974 June p. 88. Riordan, John T., 1952 June p. 34. Ripley, S. D., 1963 Aug. p. 44. Ripley, S. Dillon, 1953 Jan. p. 38. Rippel, Wally, 1975 Jan. p. 42, 43. Rigles, Armand, 1975 Apr. p. 68. Riquett, Honore G. V., 1963 Sept. p. 56. Ris, Hans, 1949 Mar. p. 25; 1953 Feb. p. 49, 53; 1961 Sept. p. 74. Ris, Walter, 1961 Oct. p. 141. Risebrough, R. W., 1961 July p. 66; 1969 Feb. p. 44. Risebrough, Robert, 1970 Apr. p. 74; 1974 Aug. p. 21. Risk, Winthrop S., 1967 Mar. p. 50.

Ristori, L., 1973 Nov. p. 42. Ritchey, G. W., 1954 July p. 33. Ritchie, Benbow F., 1963 Oct. p. 117, 121. Ritchie, E. S., 1971 May p. 84. Ritchie, Jess M., 1953 Aug. p. 41; 1956 July p. 48; 1962 Feb. p. 81. Ritchie, William A., 1970 June p. 121; 1971 Feb. p. 35. Ritchie-Calder, Lord, 1970 July p. 17. Ritman, E. L., 1975 Oct. p. 66. Ritson, D., 1966 Nov. p. 112. Rittenberg, David, 1949 Feb. p. 33, 36, 37. Rittenhouse, David, 1961 Mar. p. 139. Rittenhouse, William, 1969 May p. 63. Ritter, Dale F., 1964 Oct. p. 58. Ritter, Johann W., 1957 May p. 46; 1958 Feb. p. 29; 1960 June p. 109, 110; 1968 Sept. p. 72. Ritter, Rogers C., 1976 Feb. p. 51, 52. Rittmann, A., 1955 Sept. p. 61. Ritz, W., 1956 Nov. p. 104. Rivera, Munoz, 1966 Oct. p. 25. Rivère, Emile, 1953 Aug. p. 32. Rivers, Thomas M., 1949 July p. 16; 1954 June p. 48. Rivier, Catherine, 1977 Dec. p. 82. Rixey, Presley M., 1963 Mar. p. 123, 126. Rizzolati, Giacomo, 1967 Aug. p. 29. RKO Radio Pictures, 1949 Jan. p. 48. Roach, Arvid E., 1955 Nov. p. 56; 1975 July Roach, Franklin E., 1956 Mar. p. 82; 1959 Mar. p. 39; 1960 July p. 56. Roanhorse, Emily, 1960 Feb. p. 42. Roanoke Electric Steel Company, 1963 Dec. p. 76, 86, 87. Roath, S., 1964 Feb. p. 61. Robb, R. A., 1975 Oct. p. 66. Robb, Walter L., 1964 Nov. p. 59. Robbins, Elliot, 1975 Feb. p. 49. Robbins, Frederick C., 1952 Nov. p. 27; 1954 Dec. p. 52; 1959 Feb. p. 89; 1960 Dec. p. 90; 1967 Nov. p. 25, 28; 1975 Feb. p. 41. Robbins, Herbert E., 1977 May p. 127. Robbins, R. C., 1971 Jan. p. 37. Robbins, Richard, 1978 Feb. p. 111. Robbins, Sidney, 1955 Feb. p. 36. Robbins, W. E., 1965 July p. 48. Robbins, W. J., 1949 Aug. p. 33, 34; 1952 Apr. p. 56. Robbins, William, 1956 Mar. p. 52. Roberson, Floyd, 1967 Nov. p. 38. Robert A. Taft Sanitary Engineering Center, 1958 Sept. p. 88. Robert, Andre, 1971 Nov. p. 90. Robert Beck Brigham Hospital, 1949 July p. 29. Roberts, Arthur, 1948 Sept. p. 50; 1962 Aug. p. 36. Roberts, B. L., 1971 Jan. p. 72. Roberts, Carleton W., 1953 Dec. p. 52. Roberts, Charles, 1968 Jan. p. 23. Roberts, E. C., 1953 July p. 27. Roberts, Eugene, 1969 June p.; 1978 Feb. p. 97. Roberts, Frank H. H. Jr., 1951 Jan. p. 13; 1952 Feb. p. 26; 1966 June p. 104. Roberts, Herbert, 1953 July p. 57. Roberts, J. A., 1960 July p. 81; 1961 May p. 65; 1964 July p. 41. Roberts, J. L., 1973 Mar. p. 30. Roberts, Jane C., 1970 Feb. p. 62. Roberts, John D., 1957 Nov. p. 117. Roberts, Lawrence G., 1966 Sept. p. 247, 257, 95, 96; 1970 June p. 73; 1972 June p. 53. Roberts, Maria, 1973 Oct. p. 27. Roberts, Morton S., 1965 July p. 26; 1968 Dec. p. 43; 1973 June p. 34; 1976 Oct. p. 65. Roberts, Owen J., 1949 Apr. p. 26; 1951 July p. 30.

Roberts, R. B., 1969 Oct. p. 28, 35. Roberts, R. E., 1972 Dec. p. 87, 88. Roberts, Richard, 1963 Apr. p. 142. Roberts, Richard J., 1972 Mar. p. 27; 1976 Jan. p. 73. Roberts, W. W., 1956 Oct. p. 107, 114; 1972 Aug. p. 54. Roberts, Walter O., 1954 June p. 48; 1955 June p. 41; Sept. p. 140; May. p. 56; 1957 Apr. p. 138; 1958 Oct. p. 47. Roberts-Austen, William, Sir, 1957 May p. 103, 104. Robertshaw, David, 1969 Jan. p. 92. Robertson, Andrew, 1966 Nov. p. 95. Robertson, Donald, 1964 July p. 96. Robertson, J. David, 1961 Sept. p. 170, 171. Robertson, J. M., 1966 Nov. p. 84; 1967 June Robertson, Philip W., 1952 Jan. p. 36; 1957 May Robertus, Jon, 1978 Jan. p. 59. Robeson, Paul, 1949 Oct. p. 28; 1954 June p. 30. Robespierre, Maximillian, 1963 Sept. p. 56. Robin, Gordon de Q., 1962 Sept. p. 154. Robin, Melvin B., 1971 Nov. p. 30. Robinow, C. F., 1956 Nov. p. 48. Robinson, Abraham, 1971 Aug. p. 94, 98, 99; 1972 June p. 81-84; 1973 Mar. p. 103. Robinson, Allan, 1970 Jan. p. 114, 118. Robinson, Brian J., 1966 Jan. p. 48; June p. 41. Robinson, C. Paul, 1977 Feb. p. 92, 96, 96. Robinson, Charles E., 1949 Dec. p. 35. Robinson, Charles V., 1960 Dec. p. 149. Robinson, David A., 1972 Dec. p. 77. Robinson, David C., 1969 Dec. p. 52; 1977 Jan. p. 36. Robinson, David M., 1973 Oct. p. 41. Robinson, E., 1971 Jan. p. 37. Robinson, E. A. G., 1964 Jan. p. 106. Robinson, George M., 1971 Jan. p. 40; 1975 Oct. p. 104. Robinson, Gertrude, 1964 June p. 85. Robinson, Holton D., 1954 Nov. p. 68. Robinson, Jackie, 1952 May p. 44. Robinson, John P., 1974 Nov. p. 116, 118. Robinson, John T., 1949 Nov. p. 22; 1953 Dec. p. 66; 1958 July p. 77; 1966 Nov. p. 50; 1970 June p. 52; 1971 Oct. p. 99, 101; 1973 June Robinson, Julia, 1973 Nov. p. 85, 91. Robinson, K. W., 1973 Oct. p. 107. Robinson, Mark T., 1968 Mar. p. 91. Robinson, Robert, Sir, 1953 Mar. p. 84-86; 1955 Feb. p. 85; June p. 90; 1956 Feb. p. 54; 1957 Feb. p. 110; 1959 July p. 114; 1964 June p. 85; 1966 Nov. p. 132; 1967 Nov. p. 27; 1968 July p. 69; 1969 Aug. p. 62; 1975 Dec. p. 48. Robinson, Sid, 1976 June p. 111. Robinson, Trevor, 1959 Nov. p. 84. Robinson, W. E., 1967 Jan. p. 37. Robinson, W. J., 1972 May p. 99. Robinson, William S., 1976 Nov. p. 70; 1977 Apr. p. 49; July p. 46. Robison, G. Alan, 1977 Aug. p. 110. Robison, John, 1976 May p. 89-91. Robles, Alfonso G., 1975 Nov. p. 27, 28. Roblin-Seaway Industries Incorporated, 1963 Dec. p. 87. Robson, John G., 1974 Nov. p. 106, 111; 1977 Jan. p. 64. Robson, William, 1960 Jan. p. 102. Roca-Garcia, Manuel, 1955 Mar. p. 62. Roch, Saint, 1960 May p. 161. Rocha e Silva, M., see: Silva, M. Rocha e. Roche, Edouard A., 1975 Mar. p. 30. Roche, J., 1960 Mar. p. 92, 122

Rochester, G. D., 1949 Mar. p. 36, 37; 1950 June p. 28; 1952 Jan. p. 26. Rochester, M. G., 1959 June p. 78; 1971 Dec. p. 85. Rochow, Eugene G., 1954 Feb. p. 57. Rock, Irvin, 1967 May p. 97, 103, 104. Rock, John, 1948 Oct. p. 13; 1950 July p. 28. Rock-Carling, Ernest, 1955 Oct. p. 38. Rockefeller Foundation, 1948 Aug. p. 16; Oct. p. 9; 1949 Apr. p. 27; May p. 19; Sept. p. 14, 15; Dec. p. 41, 42; 1950 July p. 14; 1951 June p. 43, 45, 47; Oct. p. 61; Dec. p. 46, 47, 50, 51; 1952 Mar. p. 38; Apr. p. 64; June p. 24; 1953 July p. 59; 1954 Sept. p. 70; 1955 Feb. p. 70, 77; Mar. p. 60, 62-65; Sept. p. 78; Dec. p. 61, 60; 1956 Jan. p. 29, 30, 38; July p. 26; 1959 May p. 101; 1962 May p. 90; Aug. p. 80; 1964 Nov. p. 35; 1967 Nov. p. 28, 30; 1970 July p. 112; Sept. p. 162; 1971 July p. 26; 1974 Sept. p. 182; 1976 Sept. p. 36, 38, 129, 161, Rockefeller Institute, 1953 June p. 79, 80; 1958 Mar. p. 124; Sept. p. 137; Nov. p. 40; 1960 Nov. p. 64; 1962 Mar. p. 60; Apr. p. 66, 68, 70, 71; 1963 Mar. p. 90, 91; May p. 67, 68, 70; July p. 123, 124, 50, 58; Oct. p. 111; 1964 Mar. p. 40, 43; May p. 55; Oct. p. 51; Nov. p. 72; Dec. p. 114, 68, 70, 78; 1965 June p. 42; Oct. p. 78; Nov. p. 79; 1970 Aug. p. 34. Rockefeller Institute for Medical Research, 1951 June p. 46; 1953 Aug. p. 41; 1956 Mar. p. 50; Oct. p. 82, 88; 1957 Dec. p. 55; 1958 Mar. p. 118, 124; Apr. p. 42; June p. 41, 42; 1963 Dec. p. 100; 1971 July p. 28; 1977 Jan. p. 50; June p. 108; Dec. p. 90. Rockefeller International Education Board, 1951 June p. 45; 1953 June p. 56, 60. Rockefeller, John D., 1949 Sept. p. 14; Dec. p. 35; 1959 Nov. p. 100; 1967 Jan. p. 62. Rockefeller University, 1965 Dec. p. 69; 1966 Nov. p. 123; 1969 Mar. p. 46; 1977 Oct. p. 102, 99. Rockland State Hospital, 1958 Apr. p. 52. Rockmore, M. J., 1969 Dec. p. 23-25. Rockwell International Corporation, 1977 Sept. Rockwood, Stephen D., 1977 Feb. p. 92, 96. Rodahl, Kaare, 1956 Feb. p. 110; 1961 May p. 96. Rodbard, David, 1972 June p. 33. Rodd, Curtis R., 1970 Dec. p. 93. Roddier, F., 1962 Mar. p. 74. Rodebush, Worth H., 1966 Dec. p. 118. Rodenhiser, H. A., 1951 July p. 29 Roderick, Lee M., 1951 Mar. p. 19. Rodewald, Richard D., 1978 May p. 144. Rodgers, A. W., 1971 Dec. p. 22. Rodhakrishnan, V., 1968 July p. 50. Rodieck, R. W., 1969 Jan. p. 77. Rodin, J. Otto, 1966 Dec. p. 65. Rodin, L. E., 1970 Sept. p. 149. Rodin, Paul, 1964 Mar. p. 91. Rodnick, Eliot, 1949 July p. 44. Rodulf, 1967 July p. 44. Rodwell, G. F., 1968 Jan. p. 23. Roe, Anne, 1951 Sept. p. 43; 1953 Dec. p. 60; 1955 Jan. p. 29. Roebling, John A., 1954 Nov. p. 67. Roebling, Washington, 1954 Nov. p. 67. Roedder, Edwin W., 1972 Dec. p. 58. Roeder, Kenneth D., 1957 Dec. p. 66; 1961 May p. 135, 138; 1965 June p. 77 Roehling, D. J., 1959 Jan. p. 66. Roelofs, Wendell L., 1972 Sept. p. 55; 1974 July p. 35. Roels, Oswald A., 1970 Dec. p. 20. Roemer, Elizabeth, 1956 Feb. p. 56.

Roemer, Olaus, 1971 Feb. p. 107; 1975 Mar. p. 68. Roemer, Ole, 1955 Aug. p. 62; 1964 Mar. p. 107; Nov. p. 109. Roentgen, Wilhelm K., 1948 June p. 27; 1949 Mar, p. 44; Dec. p. 13, 17; 1950 Sept. p. 29; 1952 July p. 22; Dec. p. 40; 1959 Sept. p. 165, 173, 176, 76, 78; 1960 Apr. p. 142; 1967 Nov. p. 26; 1969 Mar. p. 109; 1971 May p. 86; 1972 June p. 92; 1973 Sept. p. 130; 1974 Mar. p. 92, 93, 95. Roeske, Roger, 1956 Sept. p. 113. Roesler, Frederick L., 1974 May p. 115. Roffo, A. H., 1962 July p. 39. Rogachev, A. A., 1976 June p. 29. Rogers, Alan, 1968 July p. 37. Rogers, Alan E. E., 1966 Jan. p. 49; 1968 Dec. p. 40, 42. Rogers, Carl R., 1957 Jan. p. 58. Rogers, Eric, 1955 July p. 73. Rogers, Ernest H., 1975 Sept. p. 161. Rogers, F. R., 1959 Jan. p. 122. Rogers, George E., 1969 Aug. p. 91, 93, 95. Rogers, Howard J., 1969 May p. 97. Rogers, John, 1970 May p. 101. Rogers, John S., 1948 June p. 56; 1950 July p. 22. Rogers, Stanfield, 1967 Feb. p. 58; 1968 Oct. p. 78. Rogers, Terence A., 1958 June p. 51; 1959 Dec. p. 144, Rogerson, John B. Jr., 1958 Feb. p. 44; 1959 May p. 58; 1974 May p. 113, 114. Roget, Peter, 1960 Mar. p. 145. Roggeveen, Jacob, 1949 Feb. p. 50. Rohan, Vicomte de, 1956 Jan. p. 91, 92. Rohde, Richard A., 1971 Dec. p. 32. Rohde, S. M., 1975 July p. 60. Rohlf, F. James, 1966 Dec. p. 116. Rohloff, E., 1962 Nov. p. 87. Rohm and Haas Company, 1966 July p. 107. Rohr Industries, Inc., 1973 Oct. p. 21, 22. Rohrer, F., 1960 Jan. p. 140. Rolfe, Benjamin, 1960 Oct. p. 162. Rolfe, John, 1960 Feb. p. 37. Rolfsmeyer, Melvin, 1969 Feb. p. 95. Rolfsmeyer, Virginia, 1969 Feb. p. 95. Roll, P. G., 1965 July p. 46; 1966 May p. 54; 1967 June p. 28; 1975 Oct. p. 95. Roll, Peter, 1961 Dec. p. 91. Rollefson, Robert J., 1973 May p. 38. Roller, Duane, 1954 Feb. p. 42. Röller, Herbert, 1967 July p. 16. Rollo, 1967 May p. 75. Rolls-Royce, 1953 Nov. p. 67. Rolt, L. T. C., 1964 Jan. p. 101. Roman, Nancy G., 1960 Apr. p. 60. Romanges, Charlotte de Courty de, 1954 June p. 80, 81. Romania, 1977 Jan. p. 25. Romano, Giulio, 1952 July p. 24 Romanoff, Louis, 1949 July p. 44. Romanovski, T. A., 1962 Aug. p. 36 Romaňuk, M., 1967 July p. 16, 17 Romell, Dag, 1954 Oct. p. 52. Romer, Alfred S., 1967 Sept. p. 106, 1969 Mar p. 57; 1975 Apr. p. 67 Romney, Carl F. 1960 Jan p 70, 1973 Mar Romney, Gordon, 1970 June p 79 Romney, Seymour, 1952 July p 71 Romuald II, Duke, 1963 Dec p 116 Romulo, Carlos P. 1949 Dec p 26, 1950 Jan p 11, 12. Romulus, 1963 Aug. p. 60 Ronov, A. B., 1974 June p 78 Roed, Jan van, 1972 June p. 29

Roche, M. de la, 1953 Oct. p. 91.

Rood, Robert, 1974 Jan. p. 70, 71. Rood, Robert T., 1977 Oct. p. 48, 49. Roos, Paul, 1961 July p. 102. Roosen, Robert G., 1971 Aug. p. 47. Roosevelt, Franklin D., 1948 June p. 9; Nov. p. 21; Dec. p. 27, 8; 1949 June p. 14, 26; 1950 June p. 15; July p. 11; 1951 Aug. p. 56; 1954 May p. 31; 1956 Nov. p. 83; 1959 May p. 118; 1960 Feb. p. 43; 1962 Dec. p. 108; 1963 Sept. p. 225, 226; 1965 Apr. p. 25; 1970 May p. 24; 1971 Dec. p. 19; 1974 Jan. p. 79. Roosevelt, Theodore, 1948 June p. 53; 1963 Mar. p. 124, 126, 129; 1973 Sept. p. 163. Root, Elihu, 1970 May p. 23. Root, Elisha, 1976 Nov. p. 100. Roots, E. F., 1953 Jan. p. 34. Ropar, Nicholas, 1962 Sept. p. 88, 91, 92. Roper, Christopher, 1973 Mar. p. 88, 91. Roper, Derek, 1961 Mar. p. 129. Roper, E., 1961 Dec. p. 45. Roper, Elmo, 1948 Dec. p. 7, 11. Roques, P. E., 1964 Aug. p. 14. Rorke, J., 1963 Aug. p. 84, 86. Rorschach, H., 1949 Aug. p. 12-14. Rosa, E. B., 1955 Aug. p. 64-66. Rösch, G. A., 1953 July p. 62 Rösch, Jurgen, 1959 May p. 52. Roscoe B. Jackson Memorial Laboratory, 1960 Aug. p. 75. Rose, Albert, 1968 Sept. p. 116. Rose, Anthony H., 1960 Feb. p. 139. Rose, Arnold M., 1953 Feb. p. 35. Rose, Ben, 1975 Mar. p. 103; June p. 98. Rose, Birgit, 1970 May p. 82; 1973 Feb. p. 34; 1977 Nov. p. 134. Rose, David, 1962 Oct. p. 53, 54. Rose, David J., 1971 Sept. p. 69; 1978 Apr. Rose, Dorothy, 1963 Sept. p. 88. Rose, George, 1969 July p. 42. Rose, George G., 1961 Apr. p. 130. Rose, Gustav, 1963 Oct. p. 65. Rose, Harry M., 1954 Apr. p. 52; 1957 Feb. p. 40, 43. Rose, I. A., 1959 Oct. p. 99. Rose, M. E., 1966 July p. 74. Rose, Peter H., 1970 Aug. p. 24. Rose, S. Meryl, 1952 Oct. p. 42; 1953 May p. 78; 1958 Oct. p. 88, Rose, Timothy, 1968 Oct. p. 46. Rose, Wickliffe, 1953 June p. 56. Rosebury, Theodor, 1949 Apr. p. 26. Rosecrans, Clarence J., 1965 July p. 48. Roseman, Saul, 1974 May p. 82; 1975 Dec. p. 32; 1976 Apr. p. 44. Rosembaum, E. P., 1963 Jan. p. 39. Rosen, Charles A., 1963 May p. 47; 1976 Feb. Rosen, Fred, 1973 Nov. p. 65. Rosen, Fred S., 1969 Feb. p. 43. Rosen, Milton W., 1952 Dec. p. 30. Rosenau, Milton J., 1964 Mar. p. 41 Rosenbaum, E. P., 1959 Jan. p. 80; Feb. p. 62; Apr. p. 68, 1962 Jan. p. 53; 1963 Oct. p. 36; 1964 Feb. p. 80; Mar. p. 86; 1969 Dec. p. 49. Rosenbaum, Joel, 1974 July p. 48. Rosenbaum, R., 1969 Dec. p. 31. Rosenberg, Ethel, 1951 May p. 34; 1966 Oct. p. 43. Rosenberg, Gary, 1973 Jan. p. 25, Rosenberg, Ivan. 1975 Dec. p. 41. Rosenberg, Jerome L., 1965 July p. 83. Rosenberg, Julius, 1951 May p. 34; 1954 June p. 30; 1966 Oct. p. 43. Rosenberg, Lawson L. 1960 Nov. p. 105. Rosenberg, Leon E. 1978 Jan. p. 66. Rosenberg, Morris, 1968 Feb. p. 98.

Rosenberg, S. A., 1972 Feb. p. 32. Rosenberg, Thomas, 1962 Aug. p. 105. Rosenblatt, Frank, 1958 Sept. p. 89, 90. Rosenblatt, Jay S., 1972 Nov. p. 52. Rosenblatt, Murray, 1975 Apr. p. 37. Rosenblatt, Richard H., 1977 Mar. p. 108, 112. Rosenblith, Walter A., 1962 June p. 151. Rosenblueth, Arturo, 1948 Nov. p. 14; 1966 Sept. p. 247; 1974 June p. 85. Rosenblum, E. D., 1953 Mar. p. 41. Rosenblum, Jack, 1949 June p. 54. Rosenbluth, Jack, 1965 Sept. p. 86; 1966 May Rosenbluth, Marshall, 1956 July p. 58. Rosenbluth, Marshall N., 1967 July p. 83. Rosendale, F., 1952 Nov. p. 38. Rosenfeld, Arthur H., 1961 Nov. p. 80; 1963 Jan. p. 45; 1964 Apr. p. 60; June p. 55; July p. 44; Sept. p. 130; Oct. p. 36; 1965 Mar. p. 52; 1975 Oct. p. 40. Rosenfeld, G., 1962 Aug. p. 113, 117. Rosenfeld, Leon, 1949 Nov. p. 40, 41. Rosenfield, Arthur, 1969 Mar. p. 48. Rosenhain, Walter, 1967 Sept. p. 93. Rosenhan, David L., 1973 Mar. p. 46. Rosenheim, Otto, 1970 Dec. p. 80. Rosenhof, August J. R. von, 1974 July p. 28; Dec. p. 46. Rosenkranz, Georg, 1955 Jan. p. 57, 58. Rosenkranz, Herbert, 1958 Nov. p. 54. Rosenquist, I. T., 1963 Nov. p. 132. Rosenstock, Irwin M., 1959 Apr. p. 67. Rosensweig, Norton S., 1972 Oct. p. 73, 75. Rosenthal, Adolph H., 1963 July p. 45. Rosenthal, D., 1973 Sept. p. 123. Rosenthal, G., 1963 Aug. p. 84, 86. Rosenthal, Joel, 1973 Jan. p. 26. Rosenthal, Marcia W., 1955 Aug. p. 38; 1966 May p. 49. Rosenthal, Richard J., 1972 July p. 96. Rosenthal, Robert, 1967 Nov. p. 54; 1968 Apr. p. 19; 1974 Dec. p. 28. Rosenthal, Sanford M., 1950 Dec. p. 29. Rosenwald, Lessing R., 1974 July p. 94, 95, 101. Rosenwasser, Herman, Rabbi, 1959 Jan. p. 122. Rosenzweig, Mark R., 1955 Feb. p. 58; 1961 Oct. p. 134; 1965 Jan. p. 52; 1973 Oct. p. 97. Roser, W., 1963 Aug. p. 78. Rosi, Fred D., 1967 Dec. p. 72. Rosina, G., 1970 Feb. p. 34. Rosing, Boris, 1974 Mar. p. 101. Roskam, Jacques, 1961 Feb. p. 62. Roslansky, John D., 1953 Aug. p. 54; 1961 Sept. p. 110; 1962 Feb. p. 117. Ross, David A., 1970 Apr. p. 32; 1973 July p. 88, 90; 1978 May p. 55. Ross, Douglas, 1966 Sept. p. 188. Ross, E. J., 1958 May p. 104. Ross, Elizabeth K., 1973 Sept. p. 57, 62. Ross, F. E., 1965 Apr. p. 107. Ross, Frank E., 1975 Sept. p. 72, 75. Ross, Ian M., 1973 Aug. p. 50. Ross, James C., 1962 Sept. p. 204, 64. Ross, John, 1978 Jan. p. Ross, Malcolm, 1959 May p. 54; 1965 Jan. p. 28, Ross, Mare H., 1959 Jan. p. 54; 1966 Nov. p. 109; 1971 July p. 101. Ross, Michael J., 1977 Feb. p. 112. Ross, Ronald, 1952 June p. 23; 1958 July p. 97; 1962 May p. 88, 92; 1967 Nov. p. 26. Ross, Russell, 1971 June p. 44, 52; 1977 Feb. Ross, W. M., 1969 May p. 23, 24. Rossard, Claude, 1975 Apr. p. 123. Rossby, Carl-Gustaf, 1952 Oct. p. 27, 30; 1955 Aug. p. 42; 1968 Feb. p. 81; 1974 May p. 67.

Rosse, Earl of, see: Parsons, William, Earl of Rossel, J., 1955 July p. 78; 1957 Feb. p. 75. Rossel, Samuel, 1976 July p. 114. Rossi, A. J., 1949 Apr. p. 48 Rossi, Alice S., 1974 Sept. p. 145. Rossi, Bruno B., 1949 Mar. p. 29, 32; 1954 July p. 44; 1957 June p. 70; 1959 Nov. p. 135; 1960 Nov. p. 91; 1963 Aug. p. 34; Dec. p. 67; 1964 June p. 36; 1967 Dec. p. 37, 40. Rossi, G. Bernard, 1956 Dec. p. 67, 77. Rossi, Irving, 1963 Dec. p. 76, 81. Rossini, Frederick D., 1955 Nov. p. 45; 1956 July p. 90. Rossmann, Michael G., 1964 Nov. p. 69, 71; 1970 June p. 48; 1974 Mar. p. 45. Rostand, Jean, 1956 June p. 108. Rostoker, Norman, 1972 Apr. p. 29. Rostow, W. W., 1966 Nov. p. 45. Roswell Park Memorial Institute, 1977 Apr. p. 44. Rotblad, Joseph, 1955 July p. 50; Nov. p. 61, 62; 1957 Sept. p. 107; 1961 Aug. p. 118. Rotblat, Joseph, 1955 May. p. 54. Rotem, Zeev, 1963 Oct. p. 46, 48. Roth, Emery, 1974 Feb. p. 105. Roth, H. L., 1957 May p. 41. Roth, Ivan L., 1978 Jan. p. 86. Roth, Jesse, 1972 July p. 80; 1976 May p. 37. Roth, John R., 1971 Jan. p. 46. Roth, L. M., 1953 Dec. p. 54. Roth, Louis M., 1968 Apr. p. 112. Roth, R. F., 1969 Oct. p. 94. Roth, Stephen, 1974 June p. 50. Roth, Walter L., 1948 Oct. p. 53. Roth, Willard, 1965 July p. 55. Roth, William, 1977 Sept. p. 113. Rothamsted Experimental Station, see: U.K. Rothamsted Experimental Station. Rothbergl, J. E., 1966 Apr. p. 98. Rothblat, George, 1959 Mar. p. 65. Rothe, Erhard W., 1968 Oct. p. 48. Rothen, Alexandre, 1948 Oct. p. 14-17; 1950 Mar. p. 28. Rothenberg, Sanford F., 1953 Oct. p. 58. Rother, Klaus, 1973 Nov. p. 66. Rother, Ursula, 1973 Nov. p. 66. Rothery, Richard W., 1963 Dec. p. 35, 43. Rothfarb, Bill, 1970 July p. 96, 100. Rothman, Milton A., 1961 Nov. p. 50. Rothschild, G. H., 1967 June p. 116. Rothschild, Kurt W., 1977 Nov. p. 70. Rothschild, Lord, 1959 July p. 130; 1962 Oct. p. 123; 1972 Feb. p. 40; 1977 Nov. p. 131. Rothschild, Marcus A., 1976 Mar. p. 32 Rothschild, Miriam, 1973 Nov. p. 92; 1976 Aug. Rothwell, Pamela, 1960 June p. 67. Rotman, Raquel, 1962 Jan. p. 73. Rotruck, J. T., 1972 July p. 59. Rots, A. H., 1976 Oct. p. 65. Rotschi, Henri, 1950 Aug. p. 44; 1960 Feb. Roubet, Colette, 1970 Feb. p. 35. Roudabush, R. L., 1957 Dec. p. 120; 1961 Sept. Rouget, Charles, 1959 Jan. p. 56, 58. Roughton, F. J. W., 1959 Aug. p. 119; 1960 Dec. p. 146; 1964 Nov. p. 74; 1969 May p. 30. Rougoor, G. W., 1960 June p. 86; 1974 Apr. p. 70. Roulland-Dussoix, Daisey, 1970 Jan. p. 88. Roulston, Kenneth I., 1950 July p. 28. Rounds, Donald E., 1970 Feb. p. 99. Rountree, Phyllis, 1959 Jan. p. 4 Rous, Peyton, 1958 Jan. p. 46; 1960 Nov. p. 64, 67; 1964 June p. 46, 49; 1966 Dec. p. 56; 1967

Jan p 111, Nov p 28, 1972 Jan p 25, 26, 1973 Oct p 26, 1974 Dec p 56 Rouse, Stanley R, 1977 Jan p 82 Rousseau, Jean J, 1949 Jan p 52, 1956 Aug p 59 Roussel-UCLAF, 1976 July p 57 Routh, Edward, 1952 Sept p 59, 1955 June Routh, Joseph I, 1968 Feb p 91 Routledge, Scoresby, 1949 Feb p 50, 54, 1957 May p 43 Roux, Emile, 1952 Oct p 32, 1968 Apr p 71 Roux, P P E, 1962 Mar p 117 Roux, Wilhelm, 1950 Feb p 53, 1957 Nov Rover Company, 1973 Mar p 88 Rowan, Archibald H, 1954 May p 82 Rowan, William, 1948 Dec p 21, 24, 1971 Apr Rowe, A J, 1974 Oct p 48 Rowe, B, 1970 Mar p 64 Rowe, David S, 1973 July p 56, 1974 Nov Rowe, Ednor M, 1977 June p 32 Rowe, Gilbert T, 1977 June p 51 Rowe, Hartley, 1975 Oct p 108, 109 Rowe, Wallace, 1977 May p 69 Rowe, Wallace P, 1960 Dec p 92, 1973 Jan p 22, 24 Rowell, John, 1966 May p 36, 37 Rowen, Robert, 1976 June p 38, 41 Rowland, F S, 1966 Jan p 86 Rowland, Henry A, 1949 May p 21, 1950 May p 28, 1952 June p 48-50, 52, 54, 1968 Sept p 76, 1976 Sept p 70 Rowlandson, Thomas, 1969 July p 44 Rowley, Janet, 1978 Feb p 119 Rowntree, L G, 1961 July p 58 Rowsell, H C, 1966 June p 100 Rowson, B, 1961 Feb p 76, 1963 Dec p 56 Roxburgh, Ian W, 1968 June p 39 Roy, Robert F, 1977 Aug p 66 Roy, Sujoy B, 1968 Feb p 94 Royal Canadian Air Force, 1958 July p 32 Royal Canadian Mounted Police, 1971 Sept p 108 Royal Dutch Shell Group, 1948 Sept p 14, 1963 Sept p 180, 1976 Dec p 37 see also Shell Oil Company Royal Institution of Great Britain, 1953 Oct Royal Society of London, 1952 Apr p 64, 1963 July p 100, Nov p 97, 1964 Jan p 100, Mar p 100, 104, 108, 1965 Sept p 98, 1974 Sept p 72, 1976 Jan p 63 Royall, Kenneth C, 1948 May p 32, 1950 Aug Roybal, Edward R, 1966 Mar p 56 Roy-Burman, P, 1973 Sept p 69 Royen, Willebrord S van, 1976 Aug p 74 Roys, Ralph L, 1975 Oct p 74 Royse, Donald, 1965 Sept p 210 Rozsa, G., 1949 June p 24, 25 R-S-Harvie, R B., 1968 Sept p 84 Ruark, Arthur E, 1958 June p 46 Rubber Survey Commuttee, 1956 Nov p 83 Rubbia, Carlo, 1974 Dec p 108, 1975 Jan p 49, July p 46, Oct p 50, 1976 Jan p 47, 1977 Apr p 58 Ruben, Ira, 1974 Nov p 54 Ruben, Samuel, 1948 Aug p 31, 32, 1962 June p 92, 1970 Sept p 111 Rubens, Peter P., 1952 Mar p 49, 1971 June p 92,93 Rubenstein, Irvin, 1963 Feb p 57, 59, 61 Rubenstein, Leonard, 1965 Mar p 83 Rubey, W W, 1974 June p 75

Rubey, William W, 1951 Jan p 28, 1970 Sept p 115-117 Rubin, Edgar, 1971 Dec p 63, 64, 1974 July p 90-92, 94, 96, 102 Rubin, Emanuel, 1976 Mar p 30, 32 Rubin, Harry, 1963 June p 74, 1966 Mar p 40, 1972 Jan p 26, 1974 Jan p 62 Rubin, Leonard, 1977 Oct p 34 Rubin, Martin, 1964 Feb p 47, 1966 May p 43, 1971 Aug p 46 Rubin, Max, 1975 Feb p 43 Rubin, Meyer, 1958 Feb p 59 Rubin, V Cooper, 1954 July p 35 Rubin, Vera C, 1978 May p 73, 74 Rubinowicz, W, 1949 Dec p 42 Rubinstein, Pablo, 1978 Jan p 66 Rubsamen, David S, 1975 Mar p 48 Ruby, Edward, 1977 Mar p 117 Ruby, Stanley L, 1971 Oct p 91 Ruch, T, 1948 Oct p 34 Ruckelshaus, William D, 1973 June p 15, 21 Ruckmick, C A, 1976 May p 74 Rudall, K M, 1969 Aug p 88 Ruddle, Frank H, 1966 Apr p 40, Sept p 163, 1977 Apr p 46, 47 Rudel, H W, 1955 Aug p 49 Rudenco, S I, 1965 May p 102, 103 Ruderman, James, 1974 Feb p 105 Ruderman, Malvin A, 1970 Feb p 45, 1971 Feb p 24, 1976 Oct p 78 Rudnicki, Konrad, 1977 Nov p 77, 88-90 Rudolph, Harvey, 1972 Oct p 104 Rudolph II, 1952 Oct p 74, 76 Rudolph, Stephan A, 1977 Aug p 118 Rudorff, Watler, 1971 Nov p 30 Rudzinska, Maria A., 1961 Sept p 60 Rue, F Ferber de, 1949 May p 31 Ruegg, J C, 1965 June p 88 Ruemke, H C, 1953 Oct p 60 Ruesch, J., 1955 May p. 78 Ruff, Arthur W Jr, 1974 May p 95 Ruff, O, 1955 Nov p 44 Ruffini, P, 1964 Sept p 45 Ruffini, Remo J, 1975 Mar p 28 Rufus, William, 1974 May p 42 Ruggera, Paul S., 1971 June p 59 Ruggieri, Giuliano, 1972 Dec p 36 Ruggles, John, 1967 June p 20 Ruhe, Jacob, 1955 Oct p 106 Ruhmkorff, Heinrich D, 1971 May p 82-84, 86 Ruina, Jack P., 1971 Mar p 44, 1974 Apr p 48, 1977 Apr p 52 Ruiter, Leen de, 1957 Oct p 50, 54 Ruiz-Castañeda, Maximiliano, 1964 Mar p 44 Ruiz-Gomes, Juan, 1963 Oct p 47 Rule, Bruce, 1948 Aug p 13, 1965 Apr p 113 Rumford, Count, see Thompson, Benjamin Rumford Premium, 1967 Nov p 25 Rumsey, Howard C Jr, 1973 Oct p 48 Runcorn, S K, 1963 Apr p 93, 95, 1964 Jan p 61, 1966 Oct p 26, 1968 Apr p 54, 57, 59, 1969 Nov p 104, 1971 Dec p 85, 1972 Apr p 48, 1977 Mar p 104 Rundle, Robert E, 1962 July p 88, 1966 July p 106 Rundus, Dewey, 1971 Aug p 85, 86 Runnels, L K., 1966 Dec p 118 Runner, GA, 1960 Oct p 55 Runnstrom, John, 1950 Dec p 48, 49, 1959 July p 126, 128, 1962 Feb p 116 Runyon, Ernest, 1949 June p 45 Runyon, Ernest H. 1969 June p 80 Rupert, Claude S., 1962 Dec. p 138, 140, 1967 Feb p 37 Rupert, Viscount T, 1965 Aug p 95 Rupley, John A., 1966 Nov p 90 Rupp, A F, 1952 Feb p 32.

Rupp, W Dean, 1973 Apr p 23 Ruppell, Werner, 1948 Dec p 21, 22, 24, 1958 Aug p 42 Ruppert, Karl, 1955 May p 85 Rusa I, King, 1967 Mar p 45, 46 Rusa II, King, 1967 Mar p 46 Rusa III, King, 1967 Mar p 46 Rush, J H, 1957 May p 51 Rush, James, 1965 Mar p 82 Rush, Joseph H, 1973 Oct p 71 Rushizky, G W, 1966 Feb p 34 Rushoff, Louis L, 1953 Nov p 58 Rushton, W A H, 1963 Oct p 87, Dec p 68, 71, 1964 Nov p 57, Dec p 54, 1966 Oct p 81, 1975 Mar p 64, 68, 70, 73, 74 Rusk, Dean, 1952 Jan p 40, 1954 Sept p 71, 1955 Feb p 56, 1970 May p 21, 1971 Mar p 44, 1972 Nov p 23 Rusk, Howard A, 1951 Feb p 36, Sept p 82 Ruska, E A F, 1970 Feb p 85 Ruska, Ernst, 1971 Apr p 27 Ruskin, John, 1952 Dec p 51, 1963 Sept p 58 Russel, D E, 1964 July p 52 Russel, W C, 1963 Jan p 51 Russell, Alexander, 1956 Nov p 102 Russell, Bertrand, 1949 May p 51, 1950 Sept p 40, Dec p 22, 27, 1953 Feb p 78, Nov 75, 93, 1956 Mar p 60, Apr p 122, June p 73, 74, 76, 1957 Feb p 100, Sept p 106, 1958 Apr p 48, Dec p 53, 1960 Aug p 60, 1962 Apr p 84, 87, 89-94, 1964 Sept p 127, Nov p 107, 1967 July p 52, Dec p 105, 112, 116, 1968 May p 95, 1969 June p 66, 1971 Mar p 51, 53, 57, 58, 1972 July p 39, 1973 Mar p 101, 103, 105, 109, May p 76, 77, 82, 1975 May p 51, 1977 Feb p 100 Russell, Dale A, 1975 Apr p 71 Russell, Elizabeth B S, 1960 Aug p 75 Russell, G F, 1971 Aug p 46 Russell, Henry N., 1948 May p. 41, 44, 1950 Jan p 44, Sept p 24, 25, 1951 July p 22, 1952 Oct p 56, 1953 May p 69, 1957 Aug p 80, 1961 June p 111, 1963 Oct p 65, 1974 Jan p 71 Russell, J C, 1963 Sept p 63 Russell, James T, 1960 Apr p 69 Russell, Liane B, 1960 Apr p 153, 1963 Nov Russell, Paul, 1959 July p 67 Russell, Paul F, 1962 May p 90 Russell, Paul S, 1965 Dec p 40, 1974 Apr p 45 Russell, Philip K, 1973 Jan p 26 Russell, Richard J., 1951 Apr p 21 Russell Sage Foundation, 1956 Mar p 50 Russell, Sterling A., 1973 June p 77 Russell, W L 1955 Oct p 38, Nov p 58, 61 1959 Sept p 100, 1960 Apr p 153 Rust, Alfred 1969 Apr p 78, 1976 Feb p 88 Rust, John, 1967 Aug p 57 Rust Mack, 1967 Aug p 57 Rustad, Ditlef, 1965 Nov p 108 Rustad, Lynne, 1961 Apr p 123 Rustad, Ronald C 1959 July p 68 1961 Apr p 122, Sept p 174 Rustigian, Robert, 1974 Feb p 35 Rutgers University, 1949 Sept p 26 1953 Apr p 52, 1964 May p 56 Nov p 48 Ruth, 1955 Aug. p 66 Ruth, George H "Babe" 1974 Oct p 63 Ruthardt, R., 1971 Nov p 31 Rutherford, Alison 1977 Feb p 46 Rutherford, Ernest, Lord 1948 June p 27 28 1949 Feb p 32, Mar p 29 Nov p 12 43 1950 July p 40, Sept p 29 30 Nov p 26 1951 Mar p 22, 23 Oct p 46, 1952 Mar

p 51, 52, Oct p 73, 1953 Nov p 37, 39, 1954 Feb p 78, 1956 May p 41, July p 56, 57, Sept p 88, Nov p 93, 94, 96, 98, 100, 102, 104, 1957 Apr p 81, 1958 Feb p 76, Sept p 77, 80, 81, 1959 Jan p 75, 76, Sept p 74, 76, 1960 Mar p 99, July p 49, 1962 Jan p 50, Aug p 37, 1964 Nov p 66, 1966 Aug. p 89-95, 1967 May p 129, Nov p 26, 92, 95; 1968 May p 19, 26, 1970 June p 49, 1971 June p 61-63, 65, 66, 1972 Oct p 100, 1974 Feb p 81, 1975 June p 52, Sept p 45, Oct Rutherford, H M, 1956 Dec p 85, 1962 May Rutherford, John L , 1967 Dec p 67 Rutherford Laboratory, 1966 July p 78 Rutherford, R., 1973 Oct p 98 Rutherfurd, L M, 1952 June p 48 Rutledge, Wiley B, 1951 July p 30 Rutten, M., 1967 Feb p 51 Rutter, John W, 1967 Feb p 86, Dec p 67 Ruttiger, K. F, 1949 Sept. p 26 Rutz, Richard F, 1963 Apr p 84 Ruud, Johan T, 1966 Aug. p 14 Ruysdael, Jacob van, 1952 July p 23 Ruticka, Leopold, 1955 Jan. p 55, 56, 58, 60, 1962 Nov p 94, 1967 Nov p 27 Ruzicki, Jiri, 1971 Nov p 29 Ryan Aeronautical Company, 1960 Aug p 45 Ryan, Francis J, 1952 June p 42 Ryan, James H, 1977 Mar p 64 Ryan, John D, 1973 Aug. p 15 Ryan, Kenneth J, 1976 July p 51 Ryan, Robert H, 1966 Mar p 55 Ryan, William B, 1972 Feb p 96, Dec p 27, 28, 35 Ryckmans, Pierre, 1954 Mar p 45 Rydbeck, O, 1968 Dec p 42 Ryder, Norman B, 1974 Sept p 32 Ryder, Robert M. 1959 June p 124 Ryerson, William N , 1969 Feb p 25 Rylander, Gösta, 1948 Oct. p 38 Ryle, Martin, 1949 Sept p 38, 1953 Jan. p 18, 20, 1955 Mar p 42, 1956 Sept p 166, 1957 Mar p 55, 1961 Dec p 76, 1963 Dec p 54, 1968 Apr p 43, Oct. p 29, 35, 1971 May p 56, 59, July p 80, 83, 82, 1973 Feb p 101, Sept p 72, 1974 Dec p 56, 1975 Aug. p 29, 30, 32 Ryman, W P, 1971 Sept p 65, 69 Rynd, F., 1971 Jan p 98, 99 Rynn, N., 1967 July p 88 Ryne, I J. 1978 Mar p 113 Ryther, John H. 1970 Sept p 70, 71, Dec p 16, 1971 May p 50 Ryun, James, 1976 June p 110, 114

5

S A Levine Cardiac Center, 1968 July p 19, 21, 24 25
S Smith and Sons, 1967 Feb p 102
Saacke, R. G 1969 July p 66
Saba Hussein, 1967 Nov p 67
Sabath, Leon 1975 Feb p 40
Sabatter, Paul 1949 Dec p 35, 36, 1967 Nov p 26 1971 Dec p 49, 50
Sabattin David D 1975 Oct p 31
Sabet Sohart 1975 Dec, p 34
Sabin, Albert B 1949 Mar p 26, 1953 Feb p 38, 1957 Sept p 112, 1959 Aug. p 64, 1960 Oct p 82 1966 Mar p 34, 36, 1977
Sept p 90
Sabiol, Horence R., 1959 Mar p 39
Sabiol Jeremy A, 1975 Oct p 73

Sacca, Giuseppe, 1952 Oct p 22, 1965 July p 97 Saccheri, Girolamo, 1956 Mar p 106, 108, 1969 Nov p 88-91, 94 Sacchi, Andrea, 1977 June p 126 Sachs, Abraham J, 1976 June p 100 Sachs, Bernard, 1973 Aug. p 88-90, 92, 94-97 Sachs, J., 1961 Jan p 134, 136 Sachs, Julius von, 1952 May p 51, 1959 Jan. p 98, 1968 June p 86, 1971 Aug. p 74 Sachs, Paul J, 1973 Sept p 77 Sachse, Hermann, 1970 Jan p 58, 63 Sack, R. B, 1971 Aug p 18, 19 Sackett, Gene P, 1969 July p 112 Sackett, Walter G, 1972 Apr p 93 Sacks, Leo, 1977 June p 113 Sacks, Milton S, 1953 Aug p 76 Sacramento Peak Observatory, 1962 Feb p 50 Sadacca, Robert, 1968 Aug. p 93 Sadeh, D, 1963 May p 78 Sadowsky, Norman, 1967 Jan p 58 Saenger, Gerhart, 1954 Aug. p 42 Safar, Peter, 1958 June p 49 Safronov, V S, 1975 Jan p 25 Sagan, Carl, 1960 June p 86, 1961 May p 62, 1963 July p 84, 1966 Apr p 60, 1969 Mar p 86, 88, 1973 Jan p 60, 66, Aug. p 43, 1974 Jan p 52, 1975 May p 80, Sept p 116, 1977 Dec p 86, 1978 Mar p 77 Sagan, L. A., 1976 Jan p 31 Sagan, Linda S, 1975 May p 89 Sagan, Lynn, 1962 Mar p 76 Sager, Ruth, 1970 Nov p 27 Sagik, Bernard, 1953 Aug p 44 Sagnac, G, 1963 July p 45 Sagredo, 1976 May p 108 Sahagun, Bernardino de, 1966 Apr p 73, 75 Sahlins, Marshall D, 1960 Sept p 74, 1961 June p 70, 1969 July p 109 Sahni, Ashok, 1977 Apr p 34 Sahni, M. R., 1966 May p. 95 Sahni, Sartaj K., 1978 Mar p. 129 Saines, Nicholas, 1949 June p 49 Saint John, Ruth N 1964 Apr p 108 Saint Joseph, J. K. S., 1977 Dec. p. 157 Saint Louis University, 1958 July p 52, 1963 Mar p 83 Saint Mery, Moreau de, 1960 Aug p 114 Saint Gobain Techniques Nouvelles, 1976 Dec Saint-Hilaire, Isidore G, 1950 June p 16, 1957 Oct p 110 Saint-Simon, Claude H., 1954 Oct p 33, 1963 Sept p 56 Saint-Venant, Barre de, 1959 Dec p 122 Sainz, Anthony A 1955 Feb p 52 Saito, Kihachi 1978 Feb p 97 Saito, Saburo 1960 May p 119 Sakamura, T., 1951 Apr p 57, 1953 July p 51 Sakata, Schoichi 1966 Feb p 43 Sakel, Manfred, 1962 Aug. p 68 Sakharov, Andrei D., 1959 Feb p 62, 1969 Aug. p 24 29 Saki, Tatsuo, 1969 Nov p 121 Sakita, B., 1965 Mar p. 53 Sakmann, Bert, 1977 febr. p. 113, 144 Saks, V. N., 1961 May p. 101 Sakurai, J. J. 1962 Feb p. 74 Sakuri, J. J., 1971 July p. 98 Sala Magnetics Inc. 1975 Nov. p. 46, 54 Sala Monte, 1976 Mar p 81 Salaev, M V , 1970 Nov p 62 Salam, Abdus, 1965 Mar p 53, 1973 Nov p 49, 1974 Feb p 72, July p 56, Dec p 114, 1975 Jan p 49, Oct p 47, 1976 Nov p 55, 1978 Feb p 129, 138 Salaman, Redeliffe N. 1959 May p. 101

Salerne, 1965 June p 112 Salmas, Francesco, 1967 Dec p 97 Salisbury, Frank B, 1957 Apr p 125, 1959 Apr p 80, 1968 July p 76 Salisbury, J. H., Lord, 1955 Apr. p. 33 Salisbury, John W, 1962 Oct p 63 Salisbury, Morse, 1949 July p 33 Salisbury, Peter, 1965 Nov p 40 Salisbury, Peter F., 1954 Aug. p. 25, 27 Salisbury, Richard, 1966 Jan p 76 Salisbury, Winfield W, 1952 June p 38, 1953 Sept p 67 Salk Institute for Biological Studies, 1964 Dec p 109, 1970 May p 80, June p 43, 1977 Mar p 55, June p 115, 118 Salk, Jonas E., 1953 May p 58, Dec p 52, 1954 June p 48, 1955 June p 46,47, 1977 Sept p 96 Salkınd, Michael J, 1967 Feb p 92, Sept p 161, 176 Salmi, E. W, 1959 Jan p 66 Salmi, M J, 1963 Feb p 89 Salmon, George, 1953 Nov p 93 Salmon, Thomas, 1955 Dec p 76 Salmon, William, 1965 June p 112, 1970 Oct p 114 Salomon, R., 1976 Aug. p 69 Salomonovich, A E, 1961 May p 62 Salomonsen, Finn, 1967 Oct p 96 Salpeter, Edwin E., 1953 Jan p 34, 1961 June p 120, 1962 Apr p 60, 1966 Dec p 45, 1967 Salpeter, Minam M., 1977 Feb p 117, 118 Saltın, Bengt, 1972 Mar p 90 Salton, Milton R. J., 1960 June p 133, 1966 Nov p 88, 1969 May p 93, 95, 96 Salvador, Miguel, 1973 Sept p 46 Salviati, 1975 Mar p 110, 1976 May p 108 Salvioni, E., 1954 Feb p 78, 79 Salzen, Enc. 1972 Mar p 76 Samarski, 1951 Nov p 29 Samayda, Jorge, 1959 Mar p 100 Sambin, Paolo, 1976 Apr p 52 Sambrook, Joseph, 1968 Nov p 56 Samelson, H., 1963 July p. 37 Samios, Nicholas P., 1957 July p. 74, 1964 Apr. p 61, 1975 July p 46, Oct p 44, 50 Samorajski, Thaddeus, 1970 Aug. p 83 Sampson, John J., 1963 June p 84 Sampson, William, 1965 Apr p 78 Sampson, William B, 1967 Mar p 114 Sams, G Kenneth, 1971 Aug. p 32 Sams, Joan, 1958 Aug p 48 Samson, 1977 Sept p 102 Samuel, 1960 May p 161, 1973 Oct p 35 Samuel and Saidye Bronfman Family Foundation, 1974 Aug p 74 Samuel, Arthur L., 1960 Aug. p. 60, 1966 Sept. p 112, 114, 116, 247, 248 Samuel, E. W., 1963 Aug p 84 Samuels, Leonard E., 1968 June p 91, 93, 94 Samuelson, Paul A, 1970 Dec p 38 Samuelsson, Sune, 1971 Nov p 84, 86, 91 San Diego Gas and Electric Company, 1968 Feb p 27, 1973 Dec p 21 San Diego State College, 1971 May p 99 San Francisco Bay Bridge Authority, 1965 Sept p 170 San Francisco City Traffic Department, 1970 Feb p 14 San Pietro, Anthony, 1965 July p 77, 1969 Dec p 69 Sanarelli, Giuseppe, 1954 Feb p 30, 1964 Mar p 39 Sanctonus, 1957 June p 62, 1967 Feb p 95 Sanctuary, W.C., 1956 Feb p 43 Sand, George, see Dupin, Amandine A L

Sandage, Allan R., 1953 Mar. p. 37; June p. 63, 64; 1954 Sept. p. 147, 148; 1955 Jan. p. 44; Feb. p. 53; Dec. p. 48; 1956 Sept. p. 154, 166; Oct. p. 66; 1957 Apr. p. 70; 1958 Sept. p. 86; 1959 July p. 55; 1960 Mar. p. 85; 1961 Feb. p. 51; June p. 112, 115; 1963 Feb. p. 65; Sept. p. 86; Dec. p. 56, 60; 1964 Jan. p. 40; July p. 46; 1965 Mar. p. 55; July p. 32, 45; 1966 Aug. p. 33, 38; Dec. p. 40, 41, 45, 52; 1967 Dec. p. 43, 45, 50; 1969 Jan. p. 37; 1970 June p. 32; Dec. p. 24; 1971 May p. 56, 59, 60; 1972 Feb. p. 41; 1974 Jan. p. 70; Apr. p. 70; May p. 117; 1975 June p. 70; 1976 Mar. p. 77; Dec. p. 101. Sandberg, Ann L., 1973 Nov. p. 61. Sandberg, L. B., 1971 June p. 51. Sandeen, M. I., 1954 Apr. p. 35. Sanders, F. K., 1965 Mar. p. 42. Sanders, Howard, 1955 Mar. p. 54,57; 1977 June p. 48, 50. Sanders, John E., 1969 Sept. p. 210. Sanders, R. H., 1974 May p. 60. Sanders, William T., 1967 June p. 39, 46; 1975 Oct. p. 77, Sanderson, Kenneth J., 1974 May p. 51, 53. Sanderson, Peter, 1970 Oct. p. 42, 44. Sandia Corporation, 1971 June p. 29; 1973 July Sandiford, David J., 1970 May p. 92. Sandine, William E., 1973 Nov. p. 50. Sando, W. J., 1959 Jan. p. 64. Sandow, Alexander, 1970 Apr. p. 86. Sandoz Laboratories, 1962 Aug. p. 114; 1963 July p. 52; 1970 Oct. p. 45; 1977 Apr. p. 44. Sandrocottus, see: Chandragupta. Sands, D. E., 1966 July p. 103. Sands, Sidney, 1949 July p. 44. Sandström, Ivor, 1961 Apr. p. 56. Sandwich, John Montagu, Earl of, 1954 Oct. p. 69; 1969 Sept. p. 58; 1974 Sept. p. 76. Sanes, Samuel, 1963 Mar. p. 118. Sanford, Roscoe F., 1962 Apr. p. 58. Sänger, Eugen, 1949 May p. 36. Sanger, Frederick, 1950 June p. 37; 1953 Sept. p. 100; 1955 May p. 36-38, 41; 1956 Mar. p. 42; 1958 Mar. p. 120; May p. 99; Dec. p. 52; 1961 Jan. p. 79; Feb. p. 81, 83, 91; Dec. p. 96; 1963 Dec. p. 72; 1966 Dec. p. 58; 1967 Nov. p. 28; 1968 Mar. p. 70; 1969 Nov. p. 58; 1970 Aug. p. 37; 1973 Aug. p. 27; 1974 July p. 77; 1976 Jan. p. 73; 1977 May p. 50; Dec. p. Sanjivayya, D., 1965 Dec. p. 16. Sannikov, V. V., 1969 Dec. p. 52. Sanquinetti, G., 1973 Nov. p. 42. Santangelo, J. G., 1954 June p. 64. Santayana, George, 1953 July p. 86; Dec. p. 71. Santen, Richard, 1967 June p. 122 Santorio, Santorio, 1976 May p. 100, 101. Santos, George W., 1974 Apr. p. 43. Santos, Jean C. dos, 1961 Apr. p. 91. Santos, Reynaldo dos, 1961 Apr. p. 88. Santschi, F., 1955 July p. 88, 90. Sanz, Manuel, 1957 Jan. p. 105. Sapir, Edward, 1950 Sept. p. 92; 1960 Sept. p. 89; 1972 Sept. p. 76, 78; 1973 Feb. p. 51; 1976 Jan. p. 101. Sar, Madhabaranda, 1972 Sept. p. 47; 1976 Feb. Sarabhai, A. S., 1964 Mar. p. 54. Saranac Laboratory, 1958 Aug. p. 31. Sarantsev, V. P., 1968 Sept. p. 84; 1969 Oct. p. 48. Sarasin, F., 1952 Apr. p. 74. Sarasin, P., 1952 Apr. p. 74. Sarason, Seymour B., 1953 Nov. p. 60; 1958 Mar. p. 60.

Sarazin, Edouard, 1972 May p. 102. Sarduri I, King, 1967 Mar. p. 45. Sarduri II, King, 1967 Mar. p. 45. Sarduri III, King, 1967 Mar. p. 46. Sarett, Lewis H., 1950 Mar. p. 31; 1955 Jan. p. 58, 60; 1963 July p. 50. Sargeant, Howland H., 1953 Jan. p. 30. Sargent, John R., 1975 Mar. p. 80. Sargent, M. C., 1949 Oct. p. 18. Sargent, Wallace L. W., 1969 Jan. p. 30, 31, 34; Apr. p. 51; 1978 Apr. p. 80. Sargon II, King, 1957 Oct. p. 83; 1959 July p. 100, 102; 1963 Nov. p. 123; 1967 Mar. p. 41; 1968 Apr. p. 95. Sargon of Akkad, 1968 May p. 32, 37. Sargrove, John A., 1955 Aug. p. 29. Sarich, Vincent M., 1970 Feb. p. 46; 1978 Apr. p. 93. Sarkany, Imrich, 1969 Jan. p. 112. Sarkar, N., 1972 Jan. p. 25. Sarko, Anatole, 1975 Apr. p. 84. Sarles, Harry E., 1967 May p. 58. Sarles, L. R., 1961 June p. 58. Sarma, Padman S., 1973 Sept. p. 68. Sarma, V. R., 1965 July p. 46; 1966 Nov. p. 84. Sarnoff, David, 1954 Apr. p. 64; 1956 Mar. p. 52 Sarnoff, Stanley J., 1972 Aug. p. 45. Sarpi, Paolo, 1973 May p. 87, 90-92; 1975 June Sarton, George, 1976 June p. 102. Sasaki, K., 1975 Jan. p. 60, 62, 63. Saslaw, W. C., 1968 Oct. p. 35. Sass, Jeremy, 1975 June p. 96; 1976 Mar. p. 44. Sassen, Bernard, 1952 Sept. p. 108. Sassetti, Filippo, 1958 Oct. p. 66. Sass-Kortsak, Andrew, 1957 July p. 96. Satinoff, Evelyn, 1968 Mar. p. 118. Satir, Birgit, 1974 Oct. p. 44, 47; 1975 Oct. p. 29, 33. Satir, Peter, 1961 Feb. p. 132; 1974 Oct. p. 45; 1975 Aug. p. 40; 1976 Sept. p. 68. Sato, Gordon H., 1978 May p. 92. Sato, Masayasu, 1960 Aug. p. 105. Sato-Asano, K., 1966 Feb. p. 33. Satterthwait, Arnold C., 1962 June p. 72. Satterthwaite, Mark A., 1976 June p. 25. Satyrus, 1957 Mar. p. 108. Saudek, Robert, 1951 June p. 16. Sauer, Bruno, 1950 Aug. p. 47. Sauer, Carl, 1954 Sept. p. 55, 56. Sauer, E. G. F., 1975 Aug. p. 103. Sauerbrun, Baron von Drais de, 1973 Mar. p. 81, 82, Saul, Frank P., 1977 Mar. p. 127. Saul, King, 1973 Oct. p. 35. Saulnier, Raymond J., 1975 Jan. p. 19. Saunders, A. R., 1957 Dec. p. 66. Saunders, Arthur, 1953 July p. 59. Saunders, Charles, 1953 July p. 57. Saunders, David R., 1963 Mar. p. 98. Saunders, Frederick A., 1962 Nov. p. 81, 87-90; 1974 Jan. p. 90. Saunders, James C., 1967 July p. 42. Saunders, John W. Jr., 1968 Mar. p. 37. Saunders, M. J., 1974 July p. 65. Saunders, William, 1953 July p. 59. Sauvestre, Stephen, 1974 Feb. p. 96. Sauveur, Joseph, 1967 Dec. p. 103. Savage, A., 1964 Apr. p. 43. Savage, Blair D., 1971 Dec. p. 29; 1975 Sept. p. 132; 1978 Jan. p. 77. Savage, Carleton M., 1963 July p. 42; 1964 Apr. p. 42, 43. Savage, Donald E., 1964 July p. 58. Savage, John L., 1949 June p. 29. Savage, L. J., 1955 Feb. p. 80; 1973 May p. 83.

Savage, R. J. G., 1960 May p. 153. Savart, Félix, 1954 Dec. p. 98; 1962 Nov. p. 83, 90. 93; 1976 Mar. p. 111. Savedoff, Malcolm P., 1972 Feb. p. 71. Savenkov, I. T., 1969 Aug. p. 75. Savery, Roeland, 1978 Mar. p. 137. Savery, Thomas, 1948 July p. 52; 1964 Jan. p. 98, 100, 101, 104; 1969 Apr. p. 104; 1974 Aug. p. 95. Savignac, Raymond, 1972 Sept. p. 93. Savile, H., Sir, 1969 Nov. p. 90. Saville, Marshall, 1959 Mar. p. 102. Savino, J., 1969 Dec. p. 93. Savitch, P., 1958 Feb. p. 78. Savitz, David, 1971 Feb. p. 93. Savory, Theodore H., 1960 Apr. p. 115; 1966 Mar. p. 95; 1968 July p. 110; 1970 Dec. p. 102. Sawdo, R., 1976 Mar. p. 41. Sawicki, Ludwik, 1976 Feb. p. 89, 95. Sawicki, Wojciech, 1973 Jan. p. 31. Sawkins, Frederick, 1973 July p. 88. Sawrey, William L., 1958 Oct. p. 96. Sawyer, Eric, 1976 Jan. p. 63. Sawyer, William, 1949 Feb. p. 19; 1958 May p. 71, 72; 1959 Nov. p. 102. Sax, Karel, 1951 Apr. p. 57; 1953 July p. 51. Saxe-Coburg-Gotha, Duchess of, 1965 Aug. p. 89. Saxe-Coburg-Gotha, Duke of, 1965 Aug. p. 89. Saxe-Meiningen, Princess of, 1965 Aug. p. 89. Saxon, D. S., 1953 Apr. p. 37. Saxon, David, 1978 June p. 83. Saxton, Joseph, 1961 May p. 115. Say, Burnhan, 1969 Feb. p. 43. Sayers, Dale E., 1976 Apr. p. 96, 101. Saypol, Irving, 1951 May p. 34. Sayre, A. N., 1951 Feb. p. 34. Sayre, Edward V., 1963 Nov. p. 126. Sbarra, A. J., 1962 June p. 86. Scala, John, 1978 Feb. p. 113. Scalapino, Douglas J., 1966 May p. 30, 38; 1970 Oct. p. 66; 1973 Dec. p. 55. Scalo, J. M., 1977 June p. 78. Scanlon, Thomas M. Jr., 1972 Sept. p. 166. S.C.A.R., see: International Geophysical Year. Scarascia-Mugnozza, G. T., 1971 Jan. p. 93, 95. Scarfe, C. D., 1965 May p. 31. Scargle, Jeffrey D., 1975 Dec. p. 42; 1976 May p. 96. Scarlet, Richard I., 1973 June p. 53. Schaaffhausen, Hermann, 1959 Nov. p. 176. Schachman, Howard K., 1968 Oct. p. 68. Schachter, Mel, 1962 Aug. p. 113, 117, 1963 Nov. p. 106. Schachter, Stanley, 1961 Dec. p. 47, 51. Schade, Arthur L., 1949 Aug. p. 34. Schade, Otto H. Jr., 1976 Aug. p. 83. Schade, William, 1966 Mar. p. 106. Schaedel, Richard P., 1954 Aug. p. 31; 1955 Mar. p. 98, 102. Schaedler, Russel, 1964 Mar. p. 43 Schaefer, Hermann J., 1950 Dec. p 30. Schaefer, Karl E., 1966 Mar p. 27 Schaefer, Vincent J., 1950 Apr. p. 52, 1952 Jun p. 17-19; Apr. p. 78; 1953 Feb. p. 76, 1956 Apr. p. 76; 1957 Oct. p. 43; 1959 Feb p 115. 1961 Jan. p. 121; 1965 Jan p. 42. Schaeffer, Asa A., 1961 Sept. p. 174 Schaeffer, Bobb, 1955 Dec. p 37 Schaeffer, Claude F. A., 1965 Feb. p. 102 Schafer, David E. 1971 Aug p 21 Schäfer, E. P., 1969 Feb p 3: Schaffer, Frederick L., 1955 Dec p 48, 1956 Mar. p. 34, 35, Schaffer, Robert, 1959 Aug. p. 125 Schalen, Carl, 1950 Feb p 35

halkwyk, W F, 1965 Apr p 123 haller, F W, 1963 Aug. p 81 haller, George B, 1975 May p 55 challer, Hildegard, 1974 Dec p 51 chally, Andrew V, 1972 Nov p 30, 1977 Dec chantz, Bruce, 1973 July p 31 Scharf, David, 1977 July p 25 Scharfetter, D L, 1972 Feb p 20 Scharff, Matthew D, 1973 Apr p 67, June p 89, 90, 1975 Feb p 49 Scharrer, Berta, 1966 May p 79, 80, 1972 Nov Scharrer, Ernst A., 1957 Mar p 80, 1966 May p 79, 80, 88, 1972 Nov p 28 Schatten, Gerald P, 1977 Nov p 132-134 Schatten, K. H., 1975 Apr p 114 Schatten, Kenneth, 1973 Oct p 75 Schatz, Albert, 1949 Aug p 24, 1955 Oct p 52 Schatz, Gottfried, 1968 Feb p 35, 37 Schatzman, Evry, 1950 Jan p 45, 1959 Jan p 48, 1967 Aug p 36 Schatzmann, Hans J, 1962 Aug p 100 Schaub, B., 1967 Dec. p. 67 Schawlow, Arthur L, 1957 Nov p 92, 1960 Dec p 80, 1962 Jan p 62, 1963 July p 34, 1964 Apr p 39, Dec p 60, 1966 Jan p 21, 1967 June p 82, 1968 Sept p 146, 52, 1971 May p 50, 1973 Dec p 80 Schechtman, A. M., 1959 Mar p. 91 Scheele, Karl, 1958 June p 76 Scheele, Leonard A, 1950 Dec p 30, 1951 Mar p 30, 1952 Apr p 56, 1956 Oct p 67 Scheetz, Vincent R., 1977 Apr p 60 Schesser, Robert P, 1975 Jan p 82 Scheibel, A., 1957 May p 60 Scheibel, M., 1957 May p 60 Scheibner, E. J., 1965 Mar p 33, 35 Scheidegger, Jean J., 1960 Mar p 139 Scheider, William P., 1971 Nov p 89 Scheier, Ivan H., 1963 Mar p 102 Schein, Marcel, 1949 Mar p 29, 34 Schein, Martin, 1968 Feb p 111 Scheinberg, I H, 1968 May p 111 Scheiner, Christoph, 1959 Oct p 170, 1964 May p 111, 1975 Apr p 106, 1977 May p 83-85 Scheiner, Julius, 1973 June p 30 Scheinfeld, Amram, 1958 Aug p 52 Scheits, Andreas, 1968 May p 95 Schele, Linda, 1978 May p 96 Schelleng, John C, 1962 Nov p, 1969 Feb Schelling, Hermann von, 1966 June p 62 Schelling, Thomas C, 1974 Oct p 55 Scheltema, R. S., 1969 Jan p 48 Schenker, K., 1954 Dec p 58 Schenker, Victor, 1950 Mar p 34 Scher, Harvey, 1977 May p 43 Scher, Stanley, 1962 Mar p 76 Scheraga, Harold A. 1962 Mar p 65 Scherbius, Arthur, 1966 July p 43 Scherer, James R., 1968 June p 46 Scherer, Paul A. 1954 Feb p 42. Schering Corporation, 1949 July p 44, 1963 Nov p 104, 1977 May p 64 Scherphof, Gernt, 1976 June p 40 Scherrer, Klaus, 1963 Dec p 51 Scherrer, Paul 1968 July p 63 Schetky, L McD 1960 July p 65, 1961 Oct p 109 Scheuchzer, Johann 1948 July p 47 Wheuer, Peter A G. 1966 June p 37, 39, Dec Schevill, William 1955 Jan p 67, 1966 Nov Schuparelli, Giovan u 1953 May p 65, 68, 70,

Schick, Anita F, 1961 Sept p 96 Schick, Michael, 1973 May p 37 Schicklgruber, Adolf, 1967 Jan p 30 Schiemann, Elisabeth, 1953 July p 55 Schiemenz, Paul, 1972 July p 93 Schierer, J Philip, 1973 Oct p 71 Schiff, Gilbert M, 1962 Sept p 106 Schuff, Leonard 1, 1960 May p 89, 1974 Nov p 28, 1975 July p 34 Schuff, Terhune and Co, Inc, 1949 Oct. p 26 Schiffer, J P, 1960 Mar p 84, Apr p 79, 80 Schiffer, Marianne T, 1977 Jan p 53 Schild, Geoffrey, 1977 Dec p 103 Schild, H O, 1963 Nov p 108 Schild, Rudolph, 1970 Dec p 27 Schildknecht, Hermann, 1967 Dec p 69 Schildkraut, Carl, 1960 May p 92 Schiller, Friedrich, 1949 Oct p 31 Schiller, Johann C F von, 1973 Dec p 110 Schiller, Paul, 1949 Aug p 38 Schiller, Peter H, 1972 Dec p 77, 81 Schilling, Charles W, 1970 Feb p 44 Schilling, Elizabeth, 1964 July p 92 Schilling, G F, 1959 Aug p 39 Schilling, Jean-Guy, 1973 July p 48 Schillinger, Joseph, 1956 Feb p 77 Schindewolf, Otto, 1963 Feb p 79, 81 Schipp, Joseph C, 1962 Aug p 100 Schippen, Katherine B, 1949 Dec p 52, 53 Schirra, Walter M Jr, 1962 Nov p 68 Schjelderup-Ebbe, T, 1956 Feb p 43 Schlegel, J U, 1953 Jan p 45 Schleicher, August, 1966 Nov p 46 Schleiden, Matthias J., 1953 Aug p 53, 1961 Sept p 51 Schleith, Lotte, 1971 Mar p 26 Schlemmer, F C, 1949 July p 33 Schlenk, W Jr, 1962 July p 85 Schlenk, Wilhelm, 1957 Sept p 86 Schlesinger, Edward, 1955 Dec p 40 Schlesinger, H I, 1964 Jan p 90 Schlesinger, James R., 1971 Dec p 40, 1973 Nov p 18, 27, 1974 Apr p 48, May p 20, 24-27, 29, 31, Nov p 60, 1975 Mar p 47, July p 14, 23, 1976 Nov p 27, 1978 May Schlesinger, M Jr., 1950 Nov p 11 Schlesinger, Max, 1954 Dec p 64 Schlesinger, Michael, 1976 May p 33 Schlesinger, R. Walter, 1951 May p 47 Schlessinger, D, 1969 Oct p 35 Schlessinger James R. 1975 Apr p 25 Schlichte, H J 1974 Dec p 97, 105 Schlichung Hermann, 1954 Aug p 75, 76 Schliemann, Heinrich 1954 May p 71, Dec p 72 74, 76, 1955 July p 43, 1965 Feb p 102, 1972 Oct p 38, 1975 Sept p 54, 1976 Aug p 45 Schler, C, 1968 Oct p 49 Schlipkoter H W, 1967 Nov p 65 Schlonsky Joseph S. 1950 Oct p 39 Schlosberg H 1950 Dec p 32 Schlosser John A 1963 July p 100 Schlosser Max 1967 Dec p 30-32 Schlosser Wolfhard 1974 May p 109 Schluchter Alfred W 1975 July p 62 Schlundt, Herman 1955 Aug. p 38 Schluter A 1958 Feb p 33 Schluter, R. A. 1972 Nov p 105 Schmalhausen I I 1950 Jan p 33 Schmalhausen Ivan F 1968 July p 55 Schmalz, Robert F 1969 July p 54 Schmandt-Basserat Denise, 1978 June p 50 Schmandt-Besserat Denive 1977 Aug p 58 Schmatz D J 1963 Aug. p 81 Schmid, Wilhelm, 1949 Jan p 26 Schmideberg, Melitta, 1963 Nov. p. 41

Schmidt, Alexander, 1951 June p 61 Schmidt, Allan, 1974 Sept p 35 Schmidt, Bernhard, 1950 Feb p 30, 35-38, Dec p 37, 1976 Aug p 81 Schmidt, E. R., 1956 Aug p 45 Schmidt, Edwin L, 1977 Mar p 70 Schmidt, Erhard, 1964 Sept p 45 Schmidt, Erich F, 1965 Sept p 55 Schmidt, Ernst, 1961 Oct p 75 Schmidt, Harold, 1967 Dec p 55 Schmidt, Henry D, 1950 Oct p 48 Schmidt, J F J, 1949 July p 21 Schnudt, John W, 1969 May p 24 Schmidt, Karl P, 1949 Dec p 54 Schmidt, Maarten, 1959 Dec p 96, 1963 Jan p 73, May p 77, Dec p 57-59, 1964 Feb p 56, May p 59, 1965 Mar p 55, July p 44, 1966 July p 54, Dec p 40, 52, 1970 Dec p 22, 26, 1971 Jan p 47, May p 55, 59, 64, 1972 Feb p 81, 1973 June p 38 Schnudt, O, 1961 May p 91 Schmidt, Richard A., 1962 Dec p 69 Schmidt, T, 1951 Mar p 25 Schmidt, W J, 1953 July p 59, 1962 Apr p 67 Schmidt, Wilhelm, 1964 Oct p 69 Schmidt-Koenig, Klaus, 1974 Dec p 97, 101, Schmidt-Nielsen, Bodil, 1953 July p 73, 1957 Dec p 51, 1959 Jan p 116, July p 97, Dec p 140, 1961 Nov p 108, 1969 Oct p 104 Schmidt-Nielsen, Knut, 1953 July p 73, 1955 June p 50, 1957 Dec p 51, 1959 Jan p 116, July p 97, 1961 Nov p 108, 1965 Oct p 83, 1967 Mar p 52, 1969 Jan p 89, 90, 93, Oct p 104, 107, 1970 Nov p 46, 1971 Dec p 73, 1977 Aug p 82 Schmitt, Francis O, 1949 June p 22, 24, 1957 Jan p 95, Sept p 180, 1958 Nov p 71, 1961 May p 122, Sept. p 210, 1962 Apr p 68, 1965 June p 61, 1966 Mar p 78, 1978 Feb p 103 Schmitt, J L, 1977 Aug p 33 Schmitt, Otto, 1949 Sept p 16 Schmitt, Walter R., 1969 Sept p 150 Schmitz, Henry, 1955 May p 54 Schmoller, Gustav, 1963 Sept p 58 Schmorl, G, 1970 Dec p 81 Schnaitman, Carl A., 1975 Dec p 34 Schneck, Larry, 1973 Aug. p 94 Schnedorf, Jerome G, 1976 Aug p 24 Schneider, Dietrich, 1964 Aug. p 25, 1972 Sept p 54 Schneider, Enc, 1969 July p 54 Schneider, Gerald E., 1973 Mar p 76, 1974 Mar p 42 Schneider, Herman, 1949 Dec p 52, 53, 56 Schneider, Howard, 1955 May p 34 Schneider, Mischa, 1962 Nov p 91 Schneider, Nina, 1949 Dec p 52, 53, 56 Schneider, Theodore, 1952 June p 48 Schneider, Walter C, 1957 July p 133, 1958 July p 61, 1963 May p 66 Schneiderman, Howard A. 1958 Feb p 72, 1959 Feb p 106, 1967 July p 15 Schneirla, Theodore C, 1948 June p 17-20, 22, 1949 Feb p 13, 1957 June p 140, 141, 1962 June p 133, 1972 Nov p 71, 73, 74, Dec p 18 Schneyerson, B L., 1961 Feb p 98 Schnirelmann, L., 1950 Jan p 24 Schnopper, H., 1976 Aug. p 44B Schnopper, Herbert W., 1972 July p. 73 Schnoss, Mana, 1977 July p 26 Schocken, Victor, 1955 Nov p 83 Schoeder, M. R., 1961 Aug. p. 84 Schoenberg, Arnold, 1967 Dec. p. 103 Schoenberg, David, 1949 June p. 32

Schoenborn, Benno P., 1965 Sept. p. 86; 1976 July p. 65; Oct. p. 51. Schoene, D. L., 1953 July p. 33. Schoenenberger, G. A., 1974 Jan. p. 51. Schoener, Thomas W., 1973 Dec. p. 60. Schoenheimer, Rudolf, 1948 June p. 42; 1949 Feb. p. 33, 35. Schoeppel, R. J., 1973 Jan. p. 20. Schofield, F. L., 1967 Jan. p. 111. Schofield, F. W., 1951 Mar. p. 19. Schofield, R. K., 1959 Dec. p. 135. Scholander, Per F., 162 Sept. p. 142; 1949 July p. 54, 55; 1954 Feb. p. 76, 77; 1956 Mar. p. 57; 1957 Apr. p. 97; Dec. p. 51; 1959 Jan. p. 110; June p. 81; 1960 July p. 119; 1963 Mar. p. 136; 1966 Jan. p. 97; 1967 Mar. p. 52; May p. 40; 1969 Aug. p. 102, 103, 106; 1973 Feb. p. 38; 1977 Aug. p. 57. Scholem, Gershom G., 1973 Jan. p. 84. Scholes, France V., 1975 Oct. p. 74. Scholl, D. A., 1961 Sept. p. 209. Scholl, David W., 1969 Sept. p. 142. Schollhorn, Robert, 1977 Mar. p. 73. Scholz, Christopher H., 1975 May p. 17, 23. Schonberg, Arnold, 1959 Dec. p. 113. Schönberg, Mario, 1949 Dec. p. 21. Schöner, Johannes, 1973 Dec. p. 97, 98. Schonherr, H., 1974 July p. 35. Schonland, B. J. F., 1948 Aug. p. 39; 1949 Feb. p. 23, 25; 1956 June p. 60. Schonstedt, Erick, 1965 Mar. p. 61. Schonstedt Instrument Company, 1965 Mar. p. 61. Schoof, H. F., 1952 Oct. p. 22. Schoolcraft, Henry, 1967 July p. 98. Schooley, James F., 1964 June p. 56. Schopenhauer, Arthur, 1949 June p. 54. Schopf, J. William, 1967 Jan. p. 38; 1968 May p. 50; 1971 May p. 33, 34, 40; 1972 Oct. p. 84; 1975 May p. 82. Schopf, James M., 1954 Oct. p. 36; 1962 Sept. p. 173, 182. Schorderet, Michel, 1977 Aug. p. 111, 113. Schorn, Ronald A., 1975 Sept. p. 74. Schott, Gaspar, 1967 Aug p. 99 Schott, H. E., 1973 Apr. p. 67. Schott, Otto, 1961 Jan. p. 101. Schott, W., 1950 Aug. p. 44. Schotté, Oscar E., 1951 June p. 35; 1957 Nov. p. 86; 1958 Oct. p. 82; Dec. p. 38; 1961 Sept. p. 143. Schottky, Walter, 1973 Aug. p. 49. Schottky, Werner, 1964 Jan. p. 108. Schottler, W. H. A., 1957 Jan. p. 114. Schou, Mogens, 1973 Sept. p. 121. Schouten, S. L., 1950 Oct. p. 49. Schrader, William T., 1972 Mar. p. 42; 1976 July p. 49. Schraml, Johann B., 1970 June p. 33. Schramm, Gerhard, 1957 Sept. p. 198; 1961 Feb. p. 83; Sept. p. 79. Schrank, A. R., 1962 Oct. p. 117. Schreiber, Donald E., 1974 Sept. p. 88. Schreier, Ethan J., 1975 Mar. p. 26. Schreiner, Oswald, 1949 Mar. p. 50. Schrieffer, J. Robert, 1957 June p. 74; Nov. p. 96; 1961 July p. 132; 1964 June p. 56; Aug. p. 39; 1965 Feb. p. 22; Oct. p. 60; 1966 May p. 31; 1967 Mar. p. 117; 1971 Mar. p. 76; Apr. p. 83; Nov. p. 26; 1973 Dec. p. 55; 1976 Dec. p. 64. Schrieffer, John R., 1972 Dec. p. 41. Schrier, Allan, 1961 July p. 122. Schrijver, J., 1976 Aug. p. 44B. Schroder, H., 1974 July p. 101. Schroder, V. N., 1958 Nov. p. 90, 92. Schrödinger, Erwin, 1949 Mar. p. 53; May p. 16;

Oct. p. 11-14; Dec. p. 15; 1950 Feb. p. 24; July p. 51; Sept. p. 30, 58; Oct. p. 46; 1953 Sept. p. 52, 58; 1955 June p. 64; 1956 Oct. p. 79; 1957 Apr. p. 68; 1958 Jan. p. 52; Sept. p. 77, 82; 1962 Mar. p. 124; 1963 May p. 46, 47, 50-53; 1964 Feb. p. 74; Sept. p. 131, 132; 1967 June p. 66; Sept. p. 83; Nov. p. 105, 106, 27; 1968 May p. 16, 17; 1970 Apr. p. 54, 56, 58, 68; 1976 May p. 96; 1978 Feb. p. 131. Schroeder, Henry A., 1969 June p. 58. Schroeder, Manfred R., 1963 Nov. p. 87. Schroeder, Thomas, 1971 Oct. p. 79. Schroeder, W. A., 1951 Aug. p. 57. Schroeder, W. C., 1952 Feb. p. 16. Schroeder, Walter A., 1964 Nov. p. 72. Schröter, E. H., 1975 Sept. p. 49. Schroter, J. H., 1949 July p. 21, 22; 1968 July p. 32. Schroter, Moritz, 1969 Aug. p. 109. Schubart, J., 1975 Jan. p. 29. Schubert, Jack, 1955 Oct. p. 40; 1966 May p. 40, 47; 1968 May p. 104; 1969 May p. 54. Schubert, Walter J., 1959 July p. 118. Schubiger, Gerold, 1977 July p. 74, 76. Schubot, Earl D., 1967 Mar. p. 84. Schuchert, Charles, 1963 Feb. p. 90. Schulert, Arthur R., 1967 Mar. p. 24. Schulman, Edmund, 1971 Oct. p. 68; 1972 May p. 100. Schulman, Irving, 1961 Feb. p. 62. Schulman, Sidney, 1965 Feb. p. 52. Schulsinger, F., 1973 Sept. p. 123. Schulte, D. H., 1968 Sept. p. 99. Schulte, Harry J., 1972 Nov. p. 104. Schultes, Richard E., 1977 May p. 99. Schulthess, Emil, 1962 Sept. p. 124, 85, 86. Schultz, B. D., 1965 Apr. p. 123. Schultz, Claude, 1966 July p. 77. Schultz, George P., 1977 Nov. p. 45. Schultz, Joel H., 1973 Oct. p. 24. Schultz, Peter, 1975 Sept. p. 66. Schultze, Max, 1970 Oct. p. 82. Schultze, W., 1955 Mar. p. 74. Schulz, August, 1953 July p. 51. Schulze, J. H., 1952 Nov. p. 30. Schumacher, Earle E., 1967 Dec. p. 63. Schumacher, Rolf, 1976 Aug. p. 88. Schumaker, Verne N., 1961 Apr. p. 125. Schuman, Howard, 1970 June p. 17. Schuman, Robert, 1949 Dec. p. 41. Schumann, W. O., 1961 Feb. p. 70. Schumar, James F., 1959 July p. 65; 1960 Jan. Schumm, S. A., 1970 Nov. p. 45. Schupp, Arthur A., 1961 July p. 54; 1968 Jan. p. 84. Schur, Erna, 1962 July p. 122. Schurmeier, H. M., 1966 Mar. p. 42. Schurr, Sam H., 1952 July p. 67; 1963 Sept. p. 129. Schuster, Danver, 1962 Aug. p. 58. Schutt-Aine, Joseph, 1972 July p. 81. Schwab, D., 1978 Feb. p. 113 Schwab, Robert S., 1961 Sept. p. 88. Schwabe, Heinrich, 1968 Feb. p. 76, 1975 Sept. p. 50; 1977 May p. 80, 82. Schwabedissen, Hermann, 1976 Feb. p 93 Schwalbe, E., 1950 June p. 19. Schwann, Theodor, 1948 Dec. p 30, 31, 1953 Aug. p. 53; 1961 Sept p 51, 1962 Apr p. 65 Schwar, James P., 1960 Dec. p. 108. Schwarcz, Henry P., 1962 June p 84, 86 Schwartz, Anna J., 1976 Dec. p 52. Schwartz, Barry, 1967 Oct. p. 62. Schwartz, Judah L., 1970 June p. 68 Schwartz, M., 1957 July p. 74 Schwartz, Maxime, 1976 Apr. p 44

Schwartz, Melvin, 1961 May p. 78; 1962 Aug. p. 53; 1963 Mar. p. 68; 1973 Aug. p. 33. Schwartz, Morris S., 1962 Aug. p. 71. Schwartz, Philip R., 1978 June p. 101. Schwartz, Robert S., 1973 Jan. p. 31; 1974 Apr. p. 45. Schwartz, Stephen, 1977 Feb. p. 84. Schwartzlose, Richard A., 1975 Oct. p. 85. Schwartzman, V. F., 1974 Dec. p. 43. Schwarz, F., 1974 July p. 35. Schwarz, Harold, 1967 Feb. p. 80. Schwarz, John H., 1975 Feb. p. 61, 67; 1978 Feb. p. 136. Schwarz, Klaus, 1972 July p. 56, 59, 60. Schwarz, Steven E., 1964 Apr. p. 49. Schwarz, W. M., 1969 June p. 38. Schwarzenbach, Gerold, 1953 June p. 69. Schwarzschild, Barbara, 1963 Aug. p. 29; 1965 Jan. p. 31; 1966 Nov. p. 61, Schwarzschild, Karl, 1950 Sept. p. 24; 1960 July p. 57; 1964 Nov. p. 47; 1975 Sept. p. 44. Schwarzschild, Martin, 1950 Jan. p. 45; 1951 June p. 31; 1952 Feb. p. 50; 1953 Mar. p. 37; June p. 64, 65; 1957 Sept. p. 108; Nov. p. 70; 1958 Feb. p. 44; 1959 Jan. p. 52; 1960 Feb. p. 62; 1961 Nov. p. 79; 1963 Aug. p. 29; 1964 Apr. p. 71; 1965 Jan. p. 30, 31; 1966 Nov. p. 61; 1968 Jan. p. 101, 102; 1969 June p. 102. Schweet, Richard, 1958 Dec. p. 56; 1961 Sept. Schweidler, E., 1950 July p. 49. Schweiger, Hans, 1966 Nov. p. 124. Schweikart, Russell L., 1969 Sept. p. 107. Schwendener, Simon, 1959 Oct. p. 144. Schwentker, F. F., 1949 July p. 16. Schwerdt, Carleton E., 1954 Jan. p. 42; 1955 Dec. p. 48. Schwert, George, 1964 Dec. p. 71. Schwettman, Alan H., 1965 Dec. p. 42. Schwettman, H. Alan, 1968 June p. 44; 1977 June p. 64. Schwinck, Ilse, 1963 May p. 102. Schwind, Joseph L., 1963 Nov. p. 118. Schwinger, Julian, 1948 Sept. p. 22; 1951 May p. 36; 1956 Mar. p. 94; 1961 July p. 51; 1965 Dec. p. 38; 1967 Nov. p. 28, 33, 59; 1968 Jan. p. 74; 1973 Oct. p. 108; 1974 July p. 53; Dec. p. 114; 1975 Oct. p. 47; 1978 Feb. p. 132, 137. Schwinner, Robert von, 1960 Feb. p. 130. Schwitters, Roy F., 1977 Oct. p. 56, 74. Schwyzer, Robert, 1963 July p. 51; Oct. p. 57. Sciama, Dennis, 1957 Feb. p. 99; 1961 Dec. p. 91; 1967 May p. 134; 1971 May p. 29. Science Research Associates, Inc., 1968 Apr. "Scientific American", 1949 Feb. p. 17 Scientific Publishing Company, 1972 Dec. p. 14. Scientific Research Society of America, 1954 Feb. p. 42; 1955 Feb. p. 52. Scientists' Committee on Loyalty and Security, 1954 June p. 29, 30. Scientists' Committee on Loyalty Problems. 1949 Aug. p 25. Scientists' Institute for Public Information, 1963 May p 74; 1967 July p 40, 1972 May p 20, Scipio Aemilianus, 1978 Jan. p. 111 Scipio Africanus, Publicus C., 1963 Dec p 115 Sclater, John G., 1977 Apr. p. 32, Aug. p. 63, 66 Scobie, Grant, 1976 Sept. p. 192 Scoeuy, H de, 1961 Sept. p 144 Scopes, John T., 1959 Feb p 81, 1967 July p 42, 1969 Feb p 15, 17-21 Scopes, Thomas J. 1959 Jan p 120-128, 130 Scotch, Norman A. 1963 Oct. p. (4) Scott, Dana S., 1971 Aug. p. 97 Scott, David B., 1953 June p. 41; 1957 Dec

p 109 Scott, David R., 1969 Sept p 107, 1971 Sept Scott, E. H, 1975 July p 59 Scott, Gary L, 1967 July p 42 Scott, George, Sir, 1957 May p 42 Scott, Grayson L, 1974 May p 53 Scott, H S, 1962 Oct p 47 Scott, J P, 1960 Feb p 68, 1961 Dec p 119 Scott, Jesse F, 1959 Dec p 59 Scott, John, 1976 Dec p 100, 1978 May p 114, Scott, John W, 1963 Aug p 41 Scott, K. G, 1949 Feb p 33 Scott, P F, 1964 Nov p 58, 1968 Apr p 42 Scott, Robert B, 1971 Jan p 47 Scott, Robert F, 1962 Sept p 64, 65, 77, 83, 1964 Feb p 94, 96, 1970 Dec p 104 Scott, Ronald F, 1967 June p 50, Nov p 53 Scott, Russell, 1949 June p 30 Scott, Sarah J, 1961 Oct p 67 Scott, T H, 1957 Jan p 52 Scott, Thea, 1972 Sept p 35 Scott, Walter, Sir, 1955 Aug p 68 Scott, William R., 1949 Dec p 55, 56 Scott-Blair, G W, 1959 Dec p 135 Scottish Institute of Virology, 1963 Jan p 51 Scottish Marine Biological Association, 1953 June p 32 Scott-Moncrieff, Rose, 1964 June p 85 Scovil, H E D, 1961 June p 55, 1971 June Scoville, Herbert Jr, 1971 Jan p 15, 1972 Jan p 14, 20, July p 14, 1973 Nov p 27, 1977 Aug p 24, 1978 Feb p 76 Scoville, Nicholas Z., 1974 Apr p 70 Scoville, W E, 1965 Mar p 45 Scranton, William W, 1971 Mar p 44 Schbner, Belding H, 1961 July p 62, 1968 Mar p 50 Scrimshaw, Nevin S , 1963 Sept p 216, 1967 July p_41, 1971 Oct p 14, 1976 Sept p 51 Scripps Foundation for Research in Population Problems, 1973 July p 17 Scripps Institution of Oceanography, 1949 Apr p 40, 42, 43, 1953 Mar p 41, 1954 Mar p 67, 1955 July p 36, Nov p 36-38, 1957 Oct p 49, 1958 Feb p 54, Aug p 49, Oct p 120, 58, 1960 Apr p 61, Dec p 64, 65, 1961 Apr p 105, Dec p 52, 56, 1962 May p 123, Sept p 115, 142, 1963 Apr p 97, Dec p 92, 96, 98, 106, 1966 Mar p 32, 1967 Mar p 50, 1970 Jan p 116, Aug p 45, Sept p 128, 183, 1971 Jan p 41, May p 100, 1972 Dec p 27, 26, 1973 May p 68, 1974 Aug p 21, 1975 Mar p 80, Aug p 87, Oct p 85, 1976 Dec p 120 1977 Mar p 106 108, 110, 112, 106, 108 110 Apr p 32, June p 42, 49, Nov p 130 135 1978 Jan p 34, May p 53 Serven Edward 1960 June p 107 Serven L E. 1974 June p 93 Serven Michael 1956 Mar p 60 Scronce B L 1970 Mar p 64 Scrutton Colin T 1966 Oct p 26, 28, 1972 Apr p 48 Scylax 1965 Apr p 95 Scyld King, 1951 Apr p 27 Seaboard World Airlines 1968 Oct p 85 Seaborg Glenn I 1948 July p 31, 1949 Dec p 53 1950 Mar p 28, Apr p 45 46 47, May p 27 1951 Nov p 29 1952 Jan p 38, 1954 Apr p 45 1955 July p 49, 52, Sept p 72 1956 Da p 67, 1958 Da p 56, 1959 1 cb p 66 1960 June p 82, 1961 Jan p 75, Mir p 80 Mis p 74 1962 Sept p 100 1963 July p. 65, 1964 May p. 60, Nov. p. 56 1967 Nov p 27, 28 1968 Da p 56, 1969

Apr p 57, June p 37, 56, 1970 Nov p 13, 1971 Feb p 52, 1975 May p 42, Oct p 108, 112, 1976 Dec p 30 Seah, Enc, 1978 Feb p 89, 90 Seale, Bobby, 1971 Dec p 13 Searl, Milton F, 1963 Sept p 112, 116 Searle, Leonard, 1973 June p 36, 1976 Dec Sears, E R., 1957 Apr p 74, 1971 Jan p 94 Sears, Ernest, 1951 Apr p 58, 1953 July p 54, Sears, G W, 1960 July p 69, 70 Sears, Paul B, 1955 Feb p 52, 1956 Feb p 48, 1957 Feb p 60, 1964 July p 98 Sears, Richard L, 1969 July p 36 Sears, Robert R, 1953 Mar p 44 Seashore, C E, 1948 July p 34, 40 Seaton, Frederick A, 1960 Feb p 43 Sebokht, Severus, 1974 Jan p 104 Sechaud, J, 1966 Dec p 38 Sechzer, Jen A, 1964 Jan p 48, June p 59, 1969 Oct p 83 Sedar, A W, 1961 Feb p 114 Sedat, John, 1976 Jan p 73 Sedgwick, Adam, 1959 Aug p 101 See, Germain, 1963 Nov p 96, 99 Seebeck, Thomas J, 1958 Nov p 31-33, 1961 Dec p 126 Seeburg Corporation, 1973 July p 33 Seed, H Bolton, 1977 Jan p 46 Seedner, Michael, 1977 Nov p 76 Seeger, Raymond J, 1954 Mar p 32 Seegers, Walter H, 1962 Mar p 60 Seelegir, Jeanne, 1972 Feb p 41 Seeman, Enoch, 1963 May p 46 Seeman, Julius, 1952 Nov p 67, 70 Seeman, Nadrian C, 1978 Jan p 59 Seevers, Charles H, 1971 Mar p 93 Seevers, Maurice H, 1964 Mar p 46 Segal, Aaron L, 1975 Oct p 19 Segal, David M, 1977 Jan p 53 Segal, Harry L, 1972 July p 77 Segal, Sheldon J, 1964 Jan p 55, 1965 June p 42, 1974 Sept p 37 Segall, Malcolm M, 1965 Aug. p 64 Segarra, Jose, 1972 Apr p 80 Segnit, E Ralph 1976 Apr p 89, 91 Segre, Diego, 1966 June p 98 Segre, Emilio, 1950 Apr p 41, 43, 46, 1953 Oct p 51, 1955 Sept p 72, Dec p 47, 1956 May p 36 June p 41, Aug. p 30, 1957 July p 75, 1958 Feb p 77, Apr p 34 37, 37, 1959 July p 84, Dec p 78, 1960 Mar p 108, 1965 May p 67, 1967 Nov p 28 Seguin, Armand 1956 May p 87 Seibert, Michael 1973 June p 55, 1974 Dec Seidel George R 1949 Dec p 31 Seidel, H., 1961 June p 55 Seidel Ludwig, 1976 Aug p 77 78 Seidl F G, 1953 Aug. p 27 Scidler Ramon J 1973 Nov p 50 Scielstad George A, 1967 Oct p 109, 1970 Aug p 44 Seifert, Herbert 1949 June p 26, 1950 Jan p 21 Sciff, Alvin 1977 July p 37 Scifriz, William 1950 Oct p 49 Scifter, Sam 1963 Apr p 107 Seiler, Walter 1971 Jan p 39, 41 Scilem-Aspang Friedrich 1965 Nov p 80 Seitz, Frederick 1952 Dec p 44 Sejourne Laurette 1967 June p 47 Schanina Zdenek 1974 Feb p 53 Sekera, Zdenek 1976 July p 106 Schul, A. A. 1970 Apr. p. 48 Sckuler, Robert 1977 Jan p 60 72 73

Sela, Ben-Ami, 1977 June p 113 Sela, Michael, 1973 July p 57, 1977 Oct p 97 Selander, Robert K., 1970 Mar p 104 Selander, Stig, 1971 Feb p 18 Selberg, Atle, 1951 July p 53, 1958 Dec p 108 Selenyi, Paul, 1970 Mar p 116 Seler, Eduard, 1959 Mar p 102 Selexcus I, King, 1968 Oct p 114 Selexus I, King, 1961 June p 129 Selfridge, John L, 1978 Feb p 90 Selfridge, Ohver G, 1964 June p 100 Selig, Henry, 1962 Nov p 76, 1966 Oct. p 64 Seligman, Martin, 1972 June p 113 Seligmann, Jean H, 1949 Dec p 54 Seligmann, Maxime, 1974 Nov p 72 Selkirk, Andrew, 1972 May p 54, 1978 Jan p 69 Selkirk, Wendy, 1972 May p 54 Sell, Stewart, 1976 May p 35 Sell, Stuart, 1964 Mar p 40 Sellars, C Michael, 1975 Apr p 123 Sellen, D B, 1968 June p 107 Sellers, Robert, 1963 Oct p 47 Sellers, William D, 1970 Sept p 62 Sellschop, J P F, 1965 Oct p 38, 1966 Feb p 43, 44 Selous, Edmund, 1978 May p 114 Selous, F. C., 1954 Nov. p. 42 Selov, W., 1957 Sept. p. 107 Selove, Walter, 1957 Aug p 57 Selsam, Millicent E., 1949 Dec p 54 Seltzer, Donald S, 1978 Feb p 68 Selye, Hans, 1948 Aug p 47, 1949 Mar p 20, 22, 23, July p 44, 1950 Mar p 33-35, Oct p 22, 1955 Aug p 49, 1956 Mar p 34, 1957 Mar p 79, 84, 1960 Sept p 197, 1963 Mar p 102, 1971 Jan p 26, 1974 June p 40, 1976 May p 60 Semenov, A N, 1975 May p 16, 18 Semenov, Nikolai N, 1956 Dec p 52, 1967 Nov p 28 Semenov, S A, 1977 Nov p 108 Semmes, Josephine, 1969 Jan p 75 Semple, W T, 1958 May p 111 Senay, P , 1978 Jan p 111 Senders, John W, 1963 Nov p 74 Sendivogius, Michael, 1952 Oct p 76 Senebier, Jean, 1948 Aug. p 26, 28 Seneca, 1951 July p 26 Senez, Jaques, 1965 Oct p 15 Sengun, Atıf, 1964 Apr p 53 Senior, Nassau W, 1972 Feb p 95 Sennacherib, King, 1968 Apr p 95 Seno, Tamikazu, 1960 May p 119 Senot, 1963 Apr p 139 Sens, J C, 1961 Mar p 80, July p 54 Sensory Systems Laboratory, 1965 Apr p 101 Septimus Severus, 1963 Oct p 102, 1974 Dec p 121, 1977 Feb p 40, 41 Sequana, 1971 July p 66, 67, 72 Sequoia Process Corporation, 1957 Mar p 68 Serber, Robert, 1948 June p 27, 1955 May p 52, 1972 May p 38, 1975 Oct p 108 Serge, Grand Duke of Russia, 1965 Aug p 89 Sergeev, E. A., 1957 July p. 42, 43 Senn, Bernard, 1949 June p 37 Serlemitsos, Peter, 1966 Oct p 44 Serological Museum, 1951 July p 63 Scrtumer, Friedrich, 1966 Nov p 132, 1977 Mar p 44 Service Bureau Corporation, 1955 June p. 97 Servomechanisms Incorporated, 1964 Apr Seskin Eugene, 1974 Jan p 25 Sessa, Grazia L., 1971 Mar p. 32, 1975 Apr p 56 Sessions, Meredith, 1975 Oct p 85

Sessler, Andrew M, 1966 Nov p 112, 113, 1972 Apr p 33 Sester, Carl, 1956 July p 40 Sethna, H N, 1974 July p 46 Setlow, Jane K, 1962 Dec p 138, 1967 Feb p 37 Setlow, Richard B, 1962 Dec p 136-138, 1967 Feb p 37, 39, 41 Seto, F Y B, 1974 May p 69 Setterfield, George A, 1975 Apr p 95 Settle, Thomas B, 1975 June p 100 Seurat, Georges P, 1972 Sept p 96 Seuss, Hans, 1958 Oct p 120, 1972 May p 100 Sever, John L, 1962 Sept p 106, 1974 Feb Severin, F V, 1976 Dec p 74 Severinghaus, John W, 1963 Apr p 84 Severny, A B, 1960 Feb p 57, 1966 Nov p 62 Seward, Frederick D, 1971 Dec p 29, 1975 Dec p 42, 44 Sewell, William H, 1952 Nov p 40, 1968 Oct p 40, 41 Sextro, R G, 1970 Dec p 41, 1978 June p 67 Seyfert, Carl K, 1969 Jan p 28-37, 1970 Dec p 29, 1974 Apr p 67-69, 71, 72 Sgaramella, Vittorio, 1975 July p 28 Sgaramella-Zonta, L, 1974 Sept p 88 Shachnowich, A R, 1965 Apr p 49 Shackelford, Richard, 1974 May p 53 Shackleton, Ernest, Sir, 1962 Sept p 169, 64 Shackleton, Nicholas, 1971 Feb p 47 Shaefer, Vincent J, 1964 Dec p 31 Shaffer, Brian M, 1959 Dec p 152, 154, 1961 July p 51, Sept p 144, 1963 Aug p 89, 1969 June p 81-84, 88 Shaffer, Peter T, 1967 Sept p 174 Shafranov, V D, 1972 July p 68, 69 Shafrir, Uri, 1964 Feb p 71 Shah, Ibriham, 1973 Sept p 47 Shah, Vinod K, 1977 Mar p 72 Shahn, Ben, 1949 June p 50, 1950 Dec p 43, 44, 1953 Sept p 49, 50, 1954 Mar p 39, 41 Shahr Yagil Yuhargib, King, 1969 Dec p 45 Shain, C A, 1964 Jan p 36, July p 36, 37, 1974 Aug p 26 Shainoff, John R, 1962 Mar p 65 Shaka, King, 1960 Apr p 157-159, 161, 162, 164-166, 168 Shakeshaft, J. R., 1967 June p. 32 Shakespeare, William, 1948 May p 46, Oct p 27, 37, 1949 June p 50, July p 44, Oct p 29, 1951 Feb p 60, Apr p 52, 53, Sept p 80, 1952 Apr p 83, June p 57, Aug p 60, 63, 1953 July p 80, 1954 Aug p 66, Dec p 95, 1955 Aug p 78, 1956 Apr p 117, 1957 June p 150, 1958 Sept p 59, 60, 62, 63, 1959 Sept p 158, 1961 Feb p 119, 1968 Jan p 121, Oct p 117, 1970 Dec p 104, 1972 Dec p 89-92, 1973 Dec p 110, 1974 Sept p 81, 1976 Oct p 117, 1977 June p 121 Shakow, David, 1949 July p 44, 1953 Apr p 45 Shakura, Nikolai, 1974 Dec p 40 Shalloway, A. M., 1968 Nov p 56 Shamos, Morns H, 1965 Oct p 21 Shan, Ben, 1950 Apr p 17 Shane, C D, 1952 June p 28, 30, 1954 July p 34, 1956 Sept p 188, 192 Shane, C Donald, 1977 Nov p 76, 84, 87-89, Shane, Charles D, 1952 Feb p 46 Shanes, Abraham M., 1970 Apr p 86 Shanghai Heavy Machine Tool Plant, 1966 Nov p 45 Shank, S., 1973 June p 60 Shanks, W., 1949 Dec p 30 Shankweiler, Donald, 1973 Mar p 71

Shannon, Claude E, 1949 Apr p 29, July p 11, 12, 14, 1950 Dec p 24, 1952 Mar p 70, 73, Apr p 83, 84, Sept p 135, 137, 1954 July p 48, 1956 Jan p 29, Aug p 44, 1958 June p 97, 1962 Feb p 97, 98, 1964 Feb p 103. Sept p 149, 1965 Nov p 49, 1966 Sept p 145, 146, 182, 1968 Mar p 103, 104, 1971 Sept p 179-183, 1972 Sept p 131, 32, 33, 34, 37, 40, 1973 May p 21, June p 93-96, 98, 101, 1975 Dec p 60, 1977 Sept p 82, 1978 June p 118, 120, 123, 124 Shannon, Donald, 1967 Mar p 84 Shannon, John P, 1966 Sept p 166 Shannon, Paul, 1967 Mar p 84 Shannon, Robert R, 1968 Sept p 102 Shao-chi, Lin, 1954 Sept p 132 Shapeley, Harlow, 1953 June p 60, 63, 64 Shapiro, Arnold, 1966 May p 112, 117, 120 Shapiro, Arthur K, 1974 Nov p 17 Shapiro, Ascher H, 1962 Nov p 74, 1965 Nov p 54 Shapiro, David, 1969 Apr p 50, 1970 Jan p 37, 1973 Aug p 91 Shapiro, Gilbert, 1966 July p 68 Shapiro, Gustave, 1951 Aug p 17 Shapiro, H, 1951 Mar p 47 Shapiro, Irwin I, 1965 Mar p 56, 1974 Nov p 31, 1975 Sept p 61 Shapiro, Jim, 1970 Jan p 50 Shapiro, Ralph, 1957 Apr p 139 Shapiro, Sam, 1963 Aug p 23, 1965 June p 61, 1966 May p 37 Shapiro, Stuart, 1973 June p 49, 51, 1974 May p 117, 1977 Oct p 55 Shapiro, Teresa R, 1951 May p 32 Shapley, Harlow, 1948 Oct p 25, 1949 Oct p 45, 1950 Feb p 33, 35, 38, 1952 Feb p 49, 50, June p 28, July p 48, Nov p 46, 48 1953 Mar p 48, 1954 July p 30, 32, 34, 1956 Sept p 175, 79, 1959 July p 51, 53, 55, 1963 June p 95, 97, 1964 Jan p 32, 36, 41, May p 78, 1975 June p 72, 1977 Oct p 43 Shapley, Willis H, 1976 Nov p 64 Sharman, G B, 1977 Aug p 80 Sharon, Nathan, 1969 Nov p 121, 1977 June p 108, 1978 Jan p 89 Sharov, A., 1975 Apr p 68, 70 Sharp, Frank R., 1978 Feb p 97, 98 Sharp, Geoffrey W G, 1971 Aug p 21 Sharp, Philip A, 1976 Dec p 106, 1977 May p 55 Sharp, Robert P., 1965 Sept p 76, 1966 Apr p 56, 1970 May p 27, 1977 Feb p 56 Sharpey-Schaefer, Edward A, 1951 July p 20, Sharpey-Schafer, E. P., 1959 June p 86 Sharpless, A B, 1977 Feb p 30 Sharpless, Robert, 1966 Mar p 107 Sharpless, Stewart, 1955 May p 46, 1956 Mar p 88, 1963 Jan p 76 Shartle, Caroll, 1951 Feb p 27 Shasin, Lal B, 1964 Dec p 62, 1975 Apr p 22 Shatsky, Nicolas, 1976 Aug p 55-57 Shatzman, Evry, 1962 Apr p 63 Shaub, Marcus, 1963 Apr p 112 Shaviv, Giora, 1968 July p 49, 1969 July p 36 Shaw, Bernard, 1964 Sept p 51 Shaw, Byron T. 1952 Aug. p 32 Shaw, Carles E., 1961 Dec p 115, 116 Shaw, Clifford, 1966 Sept p 247, 250 Shaw, E., 1957 Dec p 55 Shaw, Elliott N, 1964 Dec p 75 Shaw, Ernest W. 1949 Oct p 28 Shaw, George B. 1955 May p 31, 1959 Dec p 140, 1968 Mar p 49 Shaw, I T. 1966 Mar p 78 Shaw, J C. 1957 Och p 124, 1960 Mag. p 60

Shaw, John, 1952 Sept p 108, 1972 Nov p 44, 1974 Feb p 30 Shaw, Melvin P, 1977 May p 44 Shaw, Ralph, 1949 May p 27, 1952 Sept. p 148 Shaw, T J, 1960 July p 128, 1961 Sept p 168, 172 Shaw, William, 1973 Apr p 26 Shawinigan Company of Canada, 1949 Jan Shay, Oscar, 1953 Apr p 54 Shcherbina, V V, 1955 Oct. p 37 Sheaffer, Craig, 1953 May p 53 Sheahan, George M Jr, 1956 Aug p 63 Sheals, J G, 1969 Apr p 97 Shear, M J, 1951 June p 63 Shear, William A, 1976 Mar p 105 Sheard, Fred W, 1967 Sept p 186, 188 Sheatsley, Paul B, 1971 Dec p 13, 1978 June p 42, 43 Shebalin, I Yu, 1971 Nov p 33 Shebeski, Leonard H, 1974 Aug p 75 Shedlovsky, Theodore, 1951 July p 32 Sheehan, David, 1974 Sept p 35 Sheehan, John C, 1957 May p 63, 1960 Nov p 91, 1961 Mar p 69, 70 Sheer, Charles, 1954 Sept p 117 Sheerer, Elizabeth, 1952 Nov p 70 Sheldon, Ralph E, 1962 July p 62 Sheldon, W H, 1952 Nov p 37, 1954 Nov p 52 Sheldon, W R, 1964 June p 33, 34 Sheldon, William H, 1951 Dec p 40 Shelford, Victor E, 1970 Sept p 67 Shell Oil Company, 1963 Sept p 118, 120, 1964 Apr p 94, 1966 Feb p 22, 28, 1972 Oct p 33, 1974 Jan p 21, 1975 Dec p 48 see also Royal Dutch-Shell Group Shelleng, John H, 1973 July p 31 Shelley, Mary, 1952 Sept p 68 Shelley, Percy B, 1949 Oct p 31, 1950 Oct p 41, 1952 Mar p 66, June p 22, 1957 July p 126 Shelton, J., 1973 June p 53 Shelton, Thomas, 1963 Sept p 88 Shemin, David, 1949 Feb p 36, 37 Shen Nung, Emperor, 1969 Jan p 21, Dec p 17 Shen, Sheldon, 1977 Nov p 138, 136 Shêng-Tao, Chang, 1964 Feb p 68 Shepard, Alan B Jr., 1961 June p 80, 1971 Aug Shepard, Francis P., 1954 Aug p 62, 1955 Mar p 85, July p 36, 1956 Aug p 36 Shepard, James, 1978 June p 84 Shepard, Odell, 1951 Mar p 42 Shepher, Joseph, 1972 Dec p 43 Shepherd, Gordon M., 1978 Feb p 93 Shepherd, Robert G. 1963 July p 51 Shepherd, W F C, 1949 Nov p 18 Shepp, Lawrence A, 1975 Apr p 38 Sheppard, P M., 1968 Nov p 46, 49, 1975 Jan p 95, 97, 98, Aug p 53, 57 Sheppard, Percival A, 1964 Mar p 70 Sheppard, Robert, 1973 Mar p 33 Sheppard, S. E., 1952 Nov p 31, 32 Sheps Mendel C 1961 July p 71 Shereshelsky, S. L., 1970 Nov p. 71 Sheridan, Judson, 1970 May p 84 Sheridan, Richard B., 1969 July p. 41 Sheridan, Robert I 1977 Feb p 115 Sherif, Carolyn W. 1956 Nov p 54 Sherif Mehmet A. 1972 Feb p 41 Sherif, Muzafer, 1970 Nov p 102 Sherman, F. S., 1958 Jan. p. 39 Sherman, Fred 19 0 Nov p 27 St. man, Frederik, 1961 Sept p 102 Sherman Henry C 1979 Dec p 85

Sherman, Joseph, 1963 Mar. p. 118. Sherman, N., 1960 May p. 88. Sherrill, William M., 1964 July p. 38. Sherrington, Charles S., Sir, 1948 Oct. p. 27, 34; 1949 Sept. p. 47; Dec. p. 13; 1950 Sept. p. 71; Nov. p. 20; 1951 Oct. p. 57; 1952 May p. 30, 31; 1953 Mar. p. 65, 66; 1954 June p. 62; 1958 Aug. p. 85; Sept. p. 142; 1961 Dec. p. 62; 1964 Nov. p. 124; 1965 Jan. p. 56; 1966 May p. 103; 1967 Nov. p. 27; 1970 July p. 63; 1971 Aug. p. 74, 75, 77; 1972 May p. 35; 1973 July p. 96; 1974 Oct. p. 100; 1975 Jan. p. 56, 71; 1976 Dec. p. 72, 74, 79, 86. Sherritt Gordon Mines, Ltd., 1952 June p. 32. Sherry, Sol, 1949 Dec. p. 29. Sherwin, C. W., 1960 Dec. p. 78. Sherwood, Helen K., 1957 Apr. p. 72. Sherwood, R. C., 1971 June p. 84. Sherwood, Richard C., 1969 Oct. p. 47. Shettles, Landrum B., 1966 Aug. p. 81; 1972 Sept. p. 45. Shiers, George, 1971 May p. 80. Shiffrin, Richard M., 1971 Aug. p. 82. Shih, Yi Wang, 1962 Dec. p. 136. Shih-Chen, Li, 1964 Feb. p. 68. Shihkingshan Iron and Steel Works, 1966 Nov. p. 42. Shih-ying, Chao, 1975 June p. 19. Shik, M. L., 1975 Jan. p. 71; 1976 Dec. p. 74. Shiku, Hiroshi, 1977 May p. 68. Shils, Edward A., 1949 Apr. p. 24; 1954 June Shimada, K., 1976 Dec. p. 111. Shimazu, Akira, 1972 June p. 100. Shimizu, M., 1968 May p. 111. Shimkin, Demitri, 1949 Mar. p. 24; 1953 Jan. Shimkin, Michael B., 1956 Sept. p. 120. Shimmins, A. J., 1963 Dec. p. 56; 1966 June Shimomura, Osamu, 1970 Apr. p. 90. Shin, Hyun S., 1973 Nov. p. 57, 60, 65. Shinefield, Henry R., 1969 Jan. p. 115. Shipek, E. J., 1975 July p. 62. Shipley, E. D., 1955 Nov. p. 54. Shipley, Reginald A., 1951 Dec. p. 47. Shiraiwa, T., 1976 Apr. p. 96. Shiren, Norman S., 1963 June p. 67; 1965 Oct. p. 40. Shirk, Edward K., 1975 Oct. p. 52. Shirk, James S., 1965 Aug. p. 26. Shirkov, D. V., 1956 Aug. p. 29. Shirley, J. W., 1975 June p. 49. Shiskin, Julius, 1975 Jan. p. 19. Shizume, K., 1961 July p. 102. Shklovsky, I. S., 1957 Mar. p. 53, 55; 1961 July p. 68; Sept. p. 88; 1962 Jan. p. 66; Mar. p. 44; Apr. p. 57; 1963 Jan. p. 84; Dec. p. 54; 1964 Aug. p. 14; Nov. p. 38; 1967 Dec. p. 42; 1968 Dec. p. 43; 1970 Dec. p. 24; 1971 Jan. p. 58; July p. 79; 1977 Oct. p. 50. Shlank, Mordecai, 1970 Feb. p. 85. Shnek, Zachary, 1974 Nov. p. 87. Shock, Nathan W., 1968 Mar. p. 32. Shock, William, 1977 Sept. p. 74. Shockley, William B., 1951 Aug. p. 14; 1952 July p. 29, 30, 32; 1956 Dec. p. 52; 1958 Feb. p. 40; Sent. p. 118, 123, 124; 1966 Aug. p. 28, 29; Nov. p. 25, 28; 1968 Mar. p. 103; 1969 p. 47; 1970 Oct. p. 19; 1971 June p. 84; l Apr. p. 65; Aug. p. 48-50. taker, Eugene M., 1960 Sept. p. 104; Oct. 40; 1961 Aug. p. 54, 56; 1964 Feb. p. 50; t. p. 80; 1965 Oct. p. 26, 32, 34; 1966 Jan. 2; 1967 Mar. p. 74; Nov. p. 41; 1975 Sept. 44, 153.

naker, William, 1974 Feb. p. 85.

Shoenberg, David, 1963 July p. 119, 120. Shoffner, Bruce M., 1965 Oct. p. 38. Shoji, Kobe, 1977 Nov. p. 62. Sholl, D. A., 1958 Sept. p. 135. Shook, Edwin M., 1955 May p. 85. Shope, Richard E., 1949 Aug. p. 33, 34; 1952 Apr. p. 56; 1954 Feb. p. 34, 35; 1957 Feb. p. 37; 1960 Nov. p. 64, 67; 1971 July p. 28; 1977 Dec. p. 100, 101, 90. Shope, Thomas C., 1973 Oct. p. 33. Shor, G. G. Jr., 1961 Dec. p. 54. Shor, V. A., 1977 Feb. p. 30. Shorb, Mary S., 1952 Apr. p. 53. Shore, V. C., 1961 Dec. p. 98. Shorey, H. H., 1974 July p. 35. Shorley, Patricia G., 1962 Aug. p. 117; 1963 Nov. p. 104, 106. Shorr, Dorothy, 1973 May p. 27. Shorr, Ephraim, 1952 Dec. p. 64, 66. Short Bros. and Harland, Ltd., 1960 Aug. p. 47. Short, Nicholas M., 1967 Mar. p. 70, 72. Short, R. V., 1977 Oct. p. 81. Shorten, Monica, 1967 Jan. p. 81. Shorthill, Richard W., 1965 Aug. p. 27. Shortino, T. J., 1965 July p. 48. Shortridge, Keith, 1978 Apr. p. 80. Shortt, H. E., 1962 May p. 88. Shostakovich, Dmitri, 1956 Feb. p. 86. Shotton, David, 1974 July p. 77. Shoumsky, Pyotr, 1960 Oct. p. 84. Shoupp, W. E., 1949 Apr. p. 26; 1954 Dec. p. 53. Shou-wu, Wang, 1972 Dec. p. 14. Shreffler, Donald C., 1977 Oct. p. 97. Shrödinger, Erwin, 1963 July p. 115; 1965 May p. 63, 68. Shryock, Richard H., 1958 Jan. p. 46. Shu, Frank H., 1972 Aug. p. 54, 56. Shub-Ad, Queen, 1957 Oct. p. 82. Shubert, Karel, 1977 Mar. p. 74. Shubik, Philippe, 1976 May p. 60. Shubnikov, Aleksei V., 1971 Mar. p. 79 Shugg, Carleton, 1949 July p. 33; 1950 Oct. p. 24; Dec. p. 26. Shuler, Kurt E., 1966 Apr. p. 32. Shull, A. F., 1954 Aug. p. 66, 67. Shull, C. G., 1949 July p. 41; 1951 Oct. p. 49; 1953 Aug. p. 28. Shull, C. H., 1967 Sept. p. 224. Shull, George H., 1951 Aug. p. 39, 40-42. Shulman, L. E., 1956 Feb. p. 112, 114. Shulman, Robert, 1962 Oct. p. 66. Shults, Wilbur D., 1971 May p. 18. Shultz, George P., 1973 Mar. p. 44. Shumacker, H. B., 1952 Feb. p. 56. Shumway, Norman, 1962 June p. 82; 1978 May p. 88. Shumway, Norman E., 1972 Apr. p. 56. Shurrager, H. C., 1950 Nov. p. 21. Shurrager, Phil S., 1950 Feb. p. 25. Shuster, Arthur, 1949 Jan. p. 38. Shute, Barbera E., 1964 Feb. p. 54. Shuter, W. L. H., 1977 June p. 77. Shutt, R. P., 1953 Sept. p. 80. Shutt, Ralph P., 1964 Apr. p. 61. Shutts, Richard, 1975 Oct. p. 85. Shwartzman, Gregory, 1964 Mar. p. 39. Sibatani, Atuhiro, 1962 May p. 78. Sibbald, Robert, 1956 Dec. p. 46. Sibiriakov, A., 1961 May p. 91. Sibulkin, Merwin, 1962 Nov. p. 74. Sicard, Jean, 1961 Apr. p. 88. Sicharulidze, T. A., 1962 Mar. p. 114. Siculus, Diodorus, 1963 Oct. p. 97; 1973 Oct. p. 39, 40. Siddall, J. B., 1966 May p. 52. Siddigi, Obaid, 1973 Dec. p. 27. Siddon, Robert L., 1973 May p. 37.

Sidel, Ruth, 1975 June p. 20. Sidel, Victor W., 1960 Dec. p. 150, 156; 1966 Apr. p. 49; 1971 Feb. p. 93; 1975 June p. 20. Sidman, Richard L., 1966 Oct. p. 82; 1969 May p. 104. Sidney, Philip, 1973 Apr. p. 87; 1977 June p. 123. Sieber, P., 1963 Oct. p. 57. Sieburth, John M., 1974 May p. 65. Sieburth, John McN., 1958 Oct. p. 56. Siedentopf, H., 1960 July p. 62, 63. Siegal, Seymour, 1952 Mar. p. 42. Siegbahn, Manne, 1967 Nov. p. 26. Siegel, B. M., 1957 Sept. p. 214. Siegel, Lester, 1968 Sept. p. 124. Siegel, Peter V., 1969 Aug. p. 57. Siegel, Richard, 1971 Aug. p. 50. Siegel, Ronald K., 1977 Oct. p. 132. Siegel, Sanford M., 1971 May p. 37. Siegelman, H. W., 1960 Dec. p. 60, 61. Siekevitz, Philip, 1958 Mar. p. 118; July p. 61; 1961 Sept. p. 79; 1969 Mar. p. 39; 1972 Feb. p. 38; 1974 Dec. p. 56; 1975 Oct. p. 31. Siemens, Alfred, 1977 Mar. p. 128 Siemens and Halske, 1961 Aug. p. 80. Siemens, J. C., 1976 Jan. p. 62. Siemens, Werner von, 1961 Aug. p. 80. Siemens, William, 1976 July p. 68, 69, 78. Siemens, William, Sir, 1948 Aug. p. 32; 1950 June p. 52. Siemiensky, Jennie S., 1964 Mar. p. 36, 40. Sierpinski, W., 1954 Apr. p. 88. Siewert, Horst, 1961 Dec. p. 116. Sigal, Heidi, 1976 July p. 66. Sigerist, Henry, 1954 Mar. p. 38, 39. Siggers, David C., 1976 Dec. p. 52. Siggins, George, 1977 Aug. p. 115. Sigismund, Prince, 1965 Aug. p. 93. Sigmatron, Inc., 1973 June p. 73. Signac, Paul, 1972 June p. 91, 92. Signell, P. S., 1960 Mar. p. 111. Signer, Ethan, 1970 June p. 43. Sigurbjörnsson, Björn, 1971 Jan. p. 86. Sikkeland, Torbjorn, 1961 June p. 84; 1963 Apr. p. 70, 72; 1969 Apr. p. 63 Sikorsky, Igor, 1955 Jan. p. 37, 38; 1967 Apr. p. 39; 1969 Aug. p. 93. Silberg, Paul, 1965 Apr. p. 78. Silberschmidt, Karl M., 1960 Aug. p. 139, 141. Silby, E., 1973 Sept. p. 103. Silcox, John, 1967 Sept. p. 89. Silfast, William T., 1973 Feb. p. 89. Silk, E. C. H., 1969 June p. 30, 32; 1976 Dec. p. 114. Silk, George, 1959 Feb. p. 77, 82. Silk, Joseph, 1970 June p. 26; 1971 Dec. p. 28, 29; 1977 Oct. p. 51. Sill, Godfrey, 1975 Sept. p. 76. Sill, William, 1971 Aug. p. 66. Sillen, Lars G., 1970 Nov. p. 110; 1974 June p. 75. Silliman, Benjamin, 1949 Dec. p. 56; 1950 May p. 21; 1954 July p. 74, 75; 1971 May p. 81. Silman, Israel H., 1971 Mar. p. 28. Silmser, C. R., 1957 Apr. p. 65. Siltec Corporation, 1977 Sept. p. 119. Silva, M. Rocha e, 1962 Aug. p. 113, 114, 117. Silva, Robert J., 1969 Apr. p. 63. Silver, Arnold H., 1961 Jan. p. 97. Silver, Jack, 1977 Oct. p. 103. Silver, L. T., 1960 Jan. p. 82. Silver, Marvin, 1977 May p. 44. Silverman, Margaret, 1953 Feb. p. 35. Silverman, Michael R., 1975 Aug. p. 41, 43; 1976 Apr. p. 45. Silverman, Milton, 1953 Feb. p. 35. Silverman, Shirleigh, 1965 Jan. p. 28.

Silverman, William A., 1977 June p. 100. Silvers, Willys K., 1974 Apr. p. 38. Silverstein, Arthur M., 1974 Apr. p. 45. Silverstein, Robert M., 1966 Dec. p. 65. Silvertooth, E. W., 1965 Jan. p. 35. Silvester, Charles F., 1977 Mar. p. 108. Silvester, Norman, 1974 Oct. p. 46. Simantov, Rabi, 1977 Feb. p. 50; Mar. p. 50, 51. Simkiss, Kenneth, 1970 Mar, p. 91. Simmonds, Sofia, 1950 June p. 40. Simmons, E., 1978 Feb. p. 113. Simmons, Gene, 1970 Aug. p. 19. Simmons, R. O., 1966 Oct. p. 70. Simmons, Richard L., 1974 Apr. p. 45. Simms, D. L., 1977 June p. 64. Simms, Ernest, 1968 Oct. p. 67. Simms, Thomas M., 1975 Nov. p. 110, 112. Simon, Albert, 1955 Nov. p. 54; 1967 July p. 79-Simon, Charles W., 1956 May p. 66. Simon, E. W., 1966 July p. 86. Simon, Eric J., 1963 Sept. p. 86. Simon, Franz E., 1969 Dec. p. 34. Simon, George W., 1975 Apr. p. 113. Simon, Herbert A., 1960 Aug. p. 60; 1962 Dec. p. 110; 1966 Sept. p. 247, 250; 1970 Feb. p. 13. Simon, Hermann, 1971 Mar. p. 35. Simon, Lee, 1969 Nov. p. 121. Simon, Melvin I., 1975 Aug. p. 41, 43; 1976 Apr. Simon, William E., 1974 Jan. p. 29. Simoneit, Bernd R., 1972 Oct. p. 82. Simonett, David S., 1967 Aug. p. 40. Simons, Donald M., 1975 Mar. p. 91, 99, 100, Simons, Elwyn L., 1964 May p. 62; 1965 May p. 50; 1967 Apr. p. 59; Dec. p. 31; 1968 Aug. p. 45; 1970 Jan. p. 77, 82; 1972 Jan. p. 96, 102; 1974 July p. 108; 1976 Nov. p. 70; 1977 May p. 28. Simons, J. H., 1951 Dec. p. 40. Simoons, Frederick J., 1972 Oct. p. 77, 78. Simplicio, 1949 Aug. p. 45, 46. Simplicius, 1949 Nov. p. 48; 1950 May p. 51. Simpson, George G., 1950 Jan. p. 33; Nov. p. 54; 1951 Jan. p. 13; July p. 62; 1952 Apr. p. 74; 1953 Apr. p. 36; 1956 May p. 72, 73; 1959 Sept. p. 142; 1963 Feb. p. 85, 86; 1964 July p. 52; Oct. p. 114; 1969 Feb. p. 29; 1972 Nov. p. 58, 61. Simpson, H. E., 1950 Nov. p. 15. Simpson, J. Wesley, 1967 Apr. p. 50. Simpson, James Y., Sir, 1957 Jan. p. 79; 1965 Aug. p. 88. 1 Simpson, Joe R., 1977 Feb. p. 92. Simpson, John A., 1953 Aug. p. 44; 1955 Sept. p. 54; 1964 Apr. p. 66; 1966 May p. 64. Simpson, Miriam E., 1950 Oct. p. 22. Simpson, R. H., 1957 Aug. p. 34; 1964 Dec. p. 27. Simpson, Ruth D., 1955 Aug. p. 50. Simpson, Sutherland, 1954 Jan. p. 49. Simson, Otto von, 1967 Dec. p. 95, 97; 1972 Nov. p. 95. Sinclair, David, 1953 Feb. p. 72. Sinclair Oil Corporation, 1966 Feb. p. 27. Sinclair, Upton, 1973 Sept. p. 163. Singer, H. W., 1963 Sept. p. 225. Singer, Jerome L., 1957 Aug. p. 106. Singer, Marcus, 1954 Feb. p. 42. Singer, Maxine F., 1963 Mar. p. 91. Singer, S. Fred, 1957 Apr. p. 90; Nov. p. 67; 1960 Feb. p. 130; Nov. p. 172; 1970 Sept. p. 175; 1972 Apr. p. 50; 1975 Sept. p. 153. Singer, S. J., 1950 Mar. p. 29; 1951 Aug. p. 57; 1957 Oct. p. 99, 106; 1961 Sept. p. 96; 1970

Aug. p. 41; 1974 Mar. p. 33; Sept. p. 81; 1975 Jan. p. 88; Apr. p. 46; Oct. p. 32; 1976 May p. 35, 38; 1977 Jan. p. 53. Singer, Susan B., 1974 July p. 47. Singh, Baldeu, 1972 Feb. p. 85. Singh, R. N., 1966 June p. 79, 80. Singh, S., 1968 Sept. p. 124, 132. Singleton, F., 1964 Mar. p. 70. Sinsheimer, Robert L., 1958 July p. 54; 1962 Nov. p. 102; 1963 Jan. p. 53; 1964 May p. 56; 1968 Oct. p. 75, 76, 78; 1969 July p. 50; 1973 Apr. p. 21; 1977 July p. 28-30; Dec. p. 61. Sinsteden, W. J., 1968 Nov. p. 66. Sinton, William M., 1955 Sept. p. 70; 1965 Jan. p. 37; Aug. p. 23, 25, 26; 1975 Sept. p. 74, 77. Sinunovic, Sergio N., 1978 Feb. p. 67. Siperstein, M. D., 1951 Sept. p. 52. Siple, Paul A., 1949 Nov. p. 29; 1951 Feb. p. 63, 64; 1957 July p. 65; 1962 Sept. p. 220. SIPRI, see: Stockholm International Peace Research Institute. Sisler, F. D., 1953 Mar. p. 41. Sisler, Frederick D., 1963 Mar. p. 48. Sismondi, Jean C., 1963 Sept. p. 56. Situs, Stan, 1956 Mar. p. 93. Sivard, R., 1969 Oct. p. 22. Sivard, Ruth L., 1976 Apr. p. 54. Sivel, H. T., 1952 Jan. p. 68, 70, 72; 1955 Dec. p. 59, 65. Sivitsur, V. R., 1977 Dec. p. 161. Sixtus V, Pope, 1954 Nov. p. 102. Sizer, Irwin W., 1968 May p. 113. Sizmann, Rudolf, 1968 Mar. p. 97. Sizoo, G., 1971 Apr. p. 83. Sjogren, Hans O., 1967 Apr. p. 35; 1977 May p. 64. Sjogren, William L., 1968 Oct. p. 58; 1969 Oct. Sjostrand, Fritiof, 1957 July p. 137; 1958 Mar. p. 118; 1962 Apr. p. 66, 71. Sjovall, Jan, 1971 Nov. p. 84. Skarnes, Robert, 1964 Mar. p. 44. Skeels, Harold M., 1951 Sept. p. 102; 1968 Sept. p. 91. Skeggs, Leonard T. Jr., 1954 Aug. p. 26; 1959 Mar. p. 56. Skell, Philip, 1976 Feb. p. 106, 108, 109. Skelly Oil Company, 1976 Dec. p. 36. Skelton, Owen R., 1977 Aug. p. 98, 99, 103. Skerfving, Staffan, 1971 May p. 21. Skertchly, S. B., 1963 Dec. p. 136. Skilling, William T., 1949 Dec. p. 53. Skinner, B. F., 1956 Oct. p. 107, 110, 114; Nov. p. 109; 1957 Jan. p. 58; 1958 Jan. p. 78; Dec. p. 58; 1961 July p. 114; Nov. p. 91; 1964 Mar. p. 48; May p. 98; 1966 Dec. p. 81; 1967 Mar. p. 81; 1968 June p. 64. Skinner, G. William, 1975 May p. 72-79. Skinner, H. D., 1956 Aug. p. 59. Skinner, H. W. B., 1956 July p. 48. Skipper, Howard E., 1964 May p. 94. Skjöldebrand, R., 1956 Aug. p. 54. Sklifosovsky Institute, 1962 Oct. p. 56. Skobeltsyn, Dmitri V., 1949 Nov. p. 27; 1951 May p. 36. Skobeltzyn, D. F., 1957 Sept. p. 107. Skodak, Marie, 1951 Sept. p. 102; 1968 Sept. Skolem, Thoralf A., 1972 June p. 83. Skoog, Folke, 1963 Oct. p. 112; 1965 Nov. p. 79; 1968 July p. 76, 77, 79, 81. Skora, Irena, 1963 Sept. p. 86. Skornyakova, I. S., 1978 Feb. p. 56. Skoultchi, Arthur, 1974 July p. 44. Sknpov, V. P., 1972 Dec. p. 70, 71. Skulachev, V. P., 1976 June p. 46. Skutil, J., 1968 July p. 55.

Skvarla, John, 1968 Apr. p. 90. SLAC, see: Stanford Linear Accelerator Center. Slack, C. M., 1964 Jan. p. 115. Slack, C. R., 1969 Dec. p. 70. Slack, Christina, 1970 May p. 84. Slack, Glen A., 1962 Dec. p. 99. Slack, Roger, 1973 Oct. p. 84. Slack, Warner V., 1955 June p. 56. Slade, D. V., 1969 Dec. p. 92. Slade, Walter, 1976 June p. 114. Sladen, Frank, 1955 Aug. p. 57. Sladen, William J. L., 1957 Dec. p. 45, 50; 1964 Feb. p. 95, 96, 100; 1965 Sept. p. 82. Slama, Karel, 1965 Oct. p. 39; 1966 May p. 53; 1967 July p. 16, 17; 1968 May p. 54. Slamecka, Norman J., 1964 Mar. p. 93. Slate, David J., 1973 June p. 93; 1977 June p. 56. Slater, Daniel, 1953 May p. 81. Slater, E. C., 1968 Feb. p. 36; May p. 124; 1978 Mar. p. 113. Slater, J. H., 1948 May p. 57. Slater, James, 1973 Mar. p. 86. Slater, James C., 1970 Apr. p. 54. Slater, John C., 1966 Dec. p. 56. Slater, N. B., 1964 July p. 105. Slater, William E., 1962 Jan. p. 53, 54. Slatis, Herman, 1955 Nov. p. 59. Slavkin, Harold C., 1976 May p. 64. Slavsov, P. A., 1952 May p. 76. Slawinski, Matthew, 1966 Dec. p. 66. Slay, Alton D., 1977 Mar. p. 60. Slayter, Games, 1965 Feb. p. 34; Oct. p. 21. Slayter, Henry S., 1962 Feb. p. 48; Mar. p. 62; 1963 Dec. p. 48, 51; 1966 Apr. p. 109. Slee, Bruce, 1975 Aug. p. 26. Slee, O. B., 1949 Sept. p. 41; 1964 Aug. p. 18; 1966 June p. 30. Slee, Vergil, 1963 Aug. p. 22. Sleet, W. E., 1973 June p. 60. Sleight, Robert, 1953 Apr. p. 78, 82. Slepian, David, 1975 Apr. p. 37. Slettebak, Arne, 1963 Feb. p. 48, 49. Sletten, Knut, 1969 July p. 87. Slichter, Charles P., 1966 July p. 74. Slichter, Louis B., 1950 Dec. p. 57; 1966 Oct. p. 30, 32, 33; 1972 Apr. p. 50. Slifer, Eleanor H., 1961 May p. 138. Slipper, E. J., 1966 Aug. p. 17. Slipher, E. C., 1953 May p. 65, 67, 68, 70, 72, 73. Slipher, V. M., 1952 Feb. p. 45; 1953 May p. 69; 1956 Sept. p. 175, 80; 1964 Nov. p. 43; 1973 June p. 30; 1975 Sept. p. 74. Sliwinski, Marian, 1973 Öct. p. 48. Sloan, Alfred P., 1963 May p. 75. Sloan, D. H., 1948 June p. 29. Sloan, David H., 1954 Oct. p. 40, 43. Sloan Foundation, 1973 Oct. p 24. Sloan, Gilbert J., 1967 Dec. p. 72. Sloan, Richard K., 1966 Apr. p 57; May p. 62 Sloanaker, R. M., 1978 June p. 91 Sloanaker, Russell, 1960 Jan. p. 49; 1961 May p. 60, 65. Sloan-Kettering Institute for Cancer Research. 1953 Aug. p. 48; 1956 Oct. p 54; 1957 Dec p. 54; 1960 Mar. p. 93; 1968 Aug. p 35, 36. 39, 40; 1971 July p. 30; 1977 May p. 63, 68, 79, 76; July p. 44; Oct. p. 97. Slobodkin, L. B., 1964 Sept. p. 153 Slocombe, Patrick M., 1977 Dec. p 56 Slocumb, Charles H., 1950 Mar. p. 33 Slomovits, Minam, 1974 Dec. p. 30 Slonezewski, T. S. 1961 June p. 156. Slonimski, Piote P. 1970 Nov. p. 27. Slotkin, J S. 1951 Oct. p. 40. Sloin.ck, D L , 1971 Feb. p. 76 Slovner, Henry A., 1956 June p. 106, 103

olusher, Harold S, 1977 Dec p 87 Slusius, 1955 Dec p 75 Smadel, Joseph E., 1949 July p 17, Aug p 34, 1952 Apr p 55, 56, 1955 Jan p 76 Smagorinsky, Joseph, 1970 Sept p 63 Smale, Stephan, 1966 May p 112, 117, 118, 120 Small, K. A, 1962 Dec p 52, 54 Smallcombe, Stephen, 1974 July p 81 Smart, Ian, 1974 May p 29 Smart, J J C, 1967 Jan p 98 Smart, J S, 1953 Aug p 28 Smeaton, John, 1954 Oct. p 72, 1964 Jan p 102, 103, 1974 Feb p 95 Smedley-Maclean, Ida, 1960 Feb p 46 Smee, Alfred, 1952 Mar p 73 Smenkhkare, 1969 Dec p 55 Smigelskas, Alice, 1957 May p 108 Smiley, Charles H, 1973 Nov p 50 Smille, Lawrence B, 1975 Nov p 42 Smith, A W, 1964 Apr p 43 Smith, Adam, 1949 May p 24, 1951 Oct p 15, 1954 Oct p 33, Nov p 35, 1963 Sept p 52 55, 1966 Sept p 202, 1970 Oct p 118, 1974 Sept p 163, 1976 July p 33, Dec p 28 Smith, Alan, 1977 Nov p 150 Smith, Albert E, 1962 July p 85 Smith, Alex G, 1964 July p 39, 42, 1968 Apr p 53, 59, 1970 Oct p 34, 1972 May p 59 Smith, Alexander C, 1968 Apr p 77 Smith, Alexander H, 1975 Mar p 93 Smith, Andrew M, 1971 Dec p 25 Smith, Archie L, 1964 Jan p 73 Smith, Audrey U, 1956 June p 106, 108, 112 Smuth, B A, 1977 Feb p 32 Smuth, B M, 1963 July p 66 Smuth, Barham W, 1978 Jan p 83, 84 Smith, Barnabas, 1963 Sept p 88 Smith, Barry E., 1977 Mar p 73 Smith, Bob H, 1967 Oct p 56 Smith, Bradford A, 1968 Feb p 82, 1970 May p 27, July p 50 Smith, Bruce, 1966 July p 83, 85 Smith, Bruce D, 1949 Apr p 26 Smith, Bruce J., 1968 Aug. p 59 Smith, C A B, 1971 Apr p 106 Smith, C Earle, 1949 May p 27 Smith, Carl A, 1963 June p 88 Smith, Carol A , 1975 May p 76-79 Smith, Christopher, 1953 Mar p 89 Smith, Colin, 1972 May p 34 Smith, Cyril S., 1952 Jan p 35, June p 36, 1955 Oct p 30, 1965 Oct p 30, 1970 Feb p 13, 1975 Oct p 108, 109 Smith, D R., 1970 Nov p 72 Smith, David H., 1967 Oct p 74, Dec p 24, 26, Smith, David R, 1963 July p 58 Smith, David S., 1964 Jan p 63, 73, 1965 Sept p 86 Smith, Douglas, 1967 Feb p 43 Smith, Dwight M., 1976 Mar p 39 Smith, Edward J., 1963 July p. 84, 1965 Mar. p 66, 1966 May p 62, 1971 Aug. p 65 Smith, Edwin, 1952 Aug. p 24 Smith, Elloitt, 1950 Sept p 87 Smith, Elske van P, 1959 Dec p 102 Smith, Emil L. 1961 Feb p 91, 1964 Dec p 71, 1969 July p 87, 1972 Apr p 64, July p 57 Smith, Erwin F. 1952 June p 66 Smith, F. Graham, 1949 Sept. p. 38, 1955 July p. 91, 1956 Sept. p. 125, 210, 1962 Oct. p. 47, 5 June p. 30, 31, 1968 June p. 44, 1971 p. 80, 82, 1975 Aug. p. 26 Gary R., 1965 Oct. p. 38 , George, 1974 July p. 48 i, George E., 1964 June p. 72, 74, 75, 1972

Smith, Sydney, 1958 June p 73 June p 52 Smith, T V, 1958 June p 29 Smith, Gerald, 1976 Jan p 76 Smith, Theobald, 1948 July p 28, 1949 Nov Smith, Gerard C, 1967 Sept p 93, 1970 May Smith, Grafton E., Sir, 1949 Jan p 52, 1971 Oct p 64 Smith, H Alexander, 1948 June p 7, 9, 10, 1958 Apr p 48 Smith, H L, 1956 Dec p 67 Smith, Hamilton, 1962 Aug p 56, 1967 Apr Smith, Hamilton O, 1974 Aug p 90, 1976 Jan Smith, Harlan J, 1963 July p 67, Dec p 60, 1964 July p 39, 1966 Dec p 45, 46, 1969 Jan p 32 Smith, Harold A, 1975 Oct p 22 Smith, Harry S., 1957 July p. 57 Smith, Herbert A, 1963 Mar p 118 Smith, Homer W, 1953 Jan p 48, July p 76, 1954 May p 67, 1967 Dec p 26 Smith, Howard A, 1950 Apr p 30 Smith, Hugh M , 1963 July p 102, 1976 May Smith, Ian, 1967 Oct p 43, 45 Smith, J B, 1971 Aug p 45 Smith, J Cecil, 1972 July p 59 Smith, J D, 1955 July p 76-78 Smith, J L B, 1953 Feb p 36, 1955 Dec p 34, 37, 39 Smith, J Lewis, 1966 July p 30 Smith, J. Maynard, 1960 May p. 153, 1961 Aug Smith, J V, 1959 Aug p 68 Smith, James H C., 1956 Jan p 81 Smith, Jason W, 1972 Jan p 51 Smith, John, 1976 June p 110 Smith, Joseph, 1956 July p 28, 1977 Mar p 102 Smith, Judson, 1955 Dec p 43 Smith, Kenneth, 1963 Jan p 49 Smith, Kline & French Labs, 1969 June p 55 Smith, L F, 1955 May p 41 Smith, L W, 1958 Mar p 106 Smith, Ledyard A, 1955 May p 85 Smith, Levering, 1972 June p 27 Smith, Lincoln G, 1949 Nov p 18 Smith, Lindsey F, 1971 Dec p 27 Smith, Lloyd, 1953 May p 40, 1954 May p 52, Oct p 40 Smith Machine Company, 1973 Mar p 85 Smith, Margaret C, 1949 Feb p 28, Sept. p 21 Smith, Mary, 1970 Jan p 104 Smith, Mary A., Lady, 1965 Aug. p 95 Smith, Maynard E, 1950 Aug p 20 Smith, Michael, 1977 Dec p 56 Smith, Norman, 1978 May p 154 Smith, P E, 1961 July p 101 Smith, Paul F. 1959 Mar p 65 Smith, Paul V Jr 1956 Dec p 94 Smith, Philip E., 1950 Oct p 19, 1951 Mar p 45, 1966 May p 77 Smith, R. G 1968 Sept. p 132 Smith, Ray F., 1954 June p 38, 1956 Aug p 99 Smith, Ray W., 1963 Nov p 126, 1968 Nov p 64 Smith, Raymond L., 1967 Dec p 67 Smith, Richard B 1957 Mar p 64 Smith, Richard E, 1970 Feb p 62 Smith, Robert, 1952 Oct. p 44, 1962 July p 123 Smith, Robert E., 1955 May p 85, 1965 Aug. Smith, Robert F., 1959 Sept p. 182, 94 Smith, S. L., 1956 Aug. p. 45 Smith, Sidney 1951 Feb p 26 Smith, Stephen J 1957 May p 53 Smith, Stewart, 1965 Nov p 35

p 53, 1953 June p 86, 1967 Jan p 111 Smith, Todd I, 1977 June p 64 Smith, Tommie, 1976 June p 110, 111, 114 Smith, William, 1959 Feb p 73, Nov p 168, 170, 172 Smith, William B, 1968 July p 29, 31, 34, 37 Smith, William M., 1961 Jan p 86 Smith, William R., 1972 Mar p 43 Smith, William S, 1954 Nov p 66 Smith, Wilson, 1957 Feb p 37, 1977 Dec p 90 Smithburn, Kenneth C, 1955 Mar p 60, 62, 64, Smithers, David W, 1974 Apr p 45 Smithies, Ohver, 1970 Mar p 103, 1977 Oct Smithsonian Astrophysical Observatory, 1963 Aug. p 29, 37, 1964 Aug. p 14, 16, 18, 1965 Aug p 25, Oct p 35, 1967 Oct p 67, 74, 76, 1970 Mar p 59, Aug p 14, 20, 1974 Dec p 66, 1977 Oct p 53 Smithsonian Institution, 1948 Dec p 13, 1952 Mar p 23, Aug p 59, 1955 July p 52, 1956 Sept p 116, 1957 Jan. p 38, Nov p 59, Dec p 38, 39, 1958 Nov p 117, 1960 Sept p 134, 82, Nov p 171, 1963 Feb p 127, 1964 Feb p 52, 1965 Oct p 26, 1966 Dec p 65, 1970 May p 44, Sept. p 131, 1978 Jan p 112 Smithy, Horace G, 1950 Jan p 17 Smolens, Joseph, 1956 Mar p 58 Smoluchowski, Marian, 1950 July p 49, Sept p 29, 1964 Sept p 95, 1967 Nov p 105-107, 109 Smoluchowski, R, 1957 May p 106 Smoot, George F, 1977 Nov p 72, 1978 May p 64 Smoot, John J, 1959 May p 109 Smorodinsky, Y, 1962 Aug p 98 Smorodintsev, A A, 1959 Aug p 65 Smuts, J C, 1949 Nov p 21, 22 Smuts, Robert, 1974 Sept p 139 Smylie, D E., 1968 Nov p 60, 1971 Dec p 80 Smyrnaeus, Thaeon, 1955 Dec. p 76 Smyth, Henry D, 1948 Nov p 24, 1949 June p 26, July p 33, 1950 Aug p 28, 1951 Feb p 30, June p 51, 1953 Sept p 72, 1954 July p 46, Aug p 36, Nov p 31, 35, 48 Smyth, Joseph R., 1978 Apr p 127 Smyth, Tom Jr., 1970 Apr p 87 Smythe, Dallas W, 1952 Mar p 40 Smythe, Edwin H., 1965 Mar p 94, 95 Smythe, Francis, 1956 Feb p 94 Snapp, Roy B, 1949 July p 33 Sneath, Peter H A, 1966 Dec p 111 Sneden, Daryll, 1978 Jan p 59 Sneferu, 1949 Aug. p 50 Snell, Esmond E., 1954 Jan p 34 Snell, George, 1967 July p 108, 1972 June p 28, 29, 1977 Oct p 96 Snell, Peter, 1965 May p 88, 1976 June p 114 Snell, Willebrord, 1958 Apr p 62, 1959 Oct p 170, 1967 Oct p 69, 1968 Sept p 97, 1977 Apr p 118 Snelling, N J, 1968 Apr p 59 Snider, Alexander, 1969 Nov p 104 Snider, Antonio, 1968 Apr p 53 Smder, Joseph L., 1974 Nov p 28, 30, 31 Smder, Ray S., 1975 Jan p 58, 1976 Nov p 91 Snider-Pellegrini Antonio, 1975 Feb p 88 Snijder, Allan, 1977 July p. 112. Snitzer, Elias, 1971 June p 22 Snodyrass, A., 1977 Oct p. 122 Snoek, J. L., 1960 June p. 98, 1967 Sept. p. 230 Snoke, John 1964 Dec p 71 Snow, C P. 1969 Dec p 25

Silverman, William A., 1977 June p. 100. Silvers, Willys K., 1974 Apr. p. 38. Silverstein, Arthur M., 1974 Apr. p. 45. Silverstein, Robert M., 1966 Dec. p. 65. Silvertooth, E. W., 1965 Jan. p. 35 Silvester, Charles F., 1977 Mar. p. 108. Silvester, Norman, 1974 Oct. p. 46. Simantov, Rabi, 1977 Feb. p. 50; Mar. p. 50, 51. Simkiss, Kenneth, 1970 Mar. p. 91. Simmonds, Sofia, 1950 June p. 40. Simmons, E., 1978 Feb. p. 113. Simmons, Gene, 1970 Aug. p. 19. Simmons, R. O., 1966 Oct. p. 70. Simmons, Richard L., 1974 Apr. p. 45. Simms, D. L., 1977 June p. 64. Simms, Ernest, 1968 Oct. p. 67. Simms, Thomas M., 1975 Nov. p. 110, 112. Simon, Albert, 1955 Nov. p. 54; 1967 July p. 79-81. Simon, Charles W., 1956 May p. 66. Simon, E. W., 1966 July p. 86. Simon, Eric J., 1963 Sept. p. 86. Simon, Franz E., 1969 Dec. p. 34. Simon, George W., 1975 Apr. p. 113. Simon, Herbert A., 1960 Aug. p. 60; 1962 Dec. p. 110; 1966 Sept. p. 247, 250; 1970 Feb. Simon, Hermann, 1971 Mar. p. 35. Simon, Lee, 1969 Nov. p. 121. Simon, Melvin I., 1975 Aug. p. 41, 43; 1976 Apr. p. 45. Simon, William E., 1974 Jan. p. 29. Simoneit, Bernd R., 1972 Oct. p. 82. Simonett, David S., 1967 Aug. p. 40. Simons, Donald M., 1975 Mar. p. 91, 99, 100, Simons, Elwyn L., 1964 May p. 62; 1965 May p. 50; 1967 Apr. p. 59; Dec. p. 31; 1968 Aug. p. 45; 1970 Jan. p. 77, 82; 1972 Jan. p. 96, 102; 1974 July p. 108; 1976 Nov. p. 70; 1977 May p. 28. Simons, J. H., 1951 Dec. p. 40. Simoons, Frederick J., 1972 Oct. p. 77, 78. Simplicio, 1949 Aug. p. 45, 46. Simplicius, 1949 Nov. p. 48; 1950 May p. 51. Simpson, George G., 1950 Jan. p. 33; Nov. p. 54; 1951 Jan. p. 13; July p. 62; 1952 Apr. p. 74; 1953 Apr. p. 36; 1956 May p. 72, 73; 1959 Sept. p. 142; 1963 Feb. p. 85, 86; 1964 July p. 52; Oct. p. 114; 1969 Feb. p. 29; 1972 Nov. p. 58, 61. Simpson, H. E., 1950 Nov. p. 15. Simpson, J. Wesley, 1967 Apr. p. 50. Simpson, James Y., Sir, 1957 Jan. p. 79; 1965 Aug. p. 88. Simpson, Joe R., 1977 Feb. p. 92. Simpson, John A., 1953 Aug. p. 44; 1955 Sept. p. 54; 1964 Apr. p. 66; 1966 May p. 64. Simpson, Miriam E., 1950 Oct. p. 22 Simpson, R. H., 1957 Aug. p. 34; 1964 Dec. p. 27. Simpson, Ruth D., 1955 Aug. p. 50. Simpson, Sutherland, 1954 Jan. p. 49. Simson, Otto von, 1967 Dec. p. 95, 97; 1972 Nov. p. 95. Sinclair, David, 1953 Feb. p. 72. Sinclair Oil Corporation, 1966 Feb. p. 27. Sinclair, Upton, 1973 Sept. p. 163. Singer, H. W., 1963 Sept. p. 225. Singer, Jerome L., 1957 Aug. p. 106. Singer, Marcus, 1954 Feb. p. 42 Singer, Maxine F., 1963 Mar. p. 91. Singer, S. Fred, 1957 Apr. p. 90; Nov. p. 67; 1960 Feb. p. 130; Nov. p. 172; 1970 Sept. p. 175; 1972 Apr. p. 50; 1975 Sept. p. 153. Singer, S. J., 1950 Mar. p. 29; 1951 Aug. p. 57; 1957 Oct. p. 99, 106; 1961 Sept. p. 96; 1970

Aug. p. 41; 1974 Mar. p. 33; Sept. p. 81; 1975 Jan. p. 88; Apr. p. 46; Oct. p. 32; 1976 May p. 35, 38; 1977 Jan. p. 53, Singer, Susan B., 1974 July p. 47. Singh, Baldeu, 1972 Feb. p. 85. Singh, R. N., 1966 June p. 79, 80. Singh, S., 1968 Sept. p. 124, 132. Singleton, F., 1964 Mar. p. 70. Sinsheimer, Robert L., 1958 July p. 54; 1962 Nov. p. 102; 1963 Jan. p. 53; 1964 May p. 56; 1968 Oct. p. 75, 76, 78; 1969 July p. 50; 1973 Apr. p. 21; 1977 July p. 28-30; Dec. p. 61. Sinsteden, W. J., 1968 Nov. p. 66. Sinton, William M., 1955 Sept. p. 70; 1965 Jan. p. 37; Aug. p. 23, 25, 26; 1975 Sept. p. 74, 77. Sinunovic, Sergio N., 1978 Feb. p. 67. Siperstein, M. D., 1951 Sept. p. 52. Siple, Paul A., 1949 Nov. p. 29; 1951 Feb. p. 63, 64; 1957 July p. 65; 1962 Sept. p. 220. SIPRI, see: Stockholm International Peace Research Institute. Sisler, F. D., 1953 Mar. p. 41. Sisler, Frederick D., 1963 Mar. p. 48. Sismondi, Jean C., 1963 Sept. p. 56. Situs, Stan, 1956 Mar. p. 93. Sivard, R., 1969 Oct. p. 22. Sivard, Ruth L., 1976 Apr. p. 54. Sivel, H. T., 1952 Jan. p. 68, 70, 72; 1955 Dec. p. 59, 65. Sivitsur, V. R., 1977 Dec. p. 161. Sixtus V, Pope, 1954 Nov. p. 102. Sizer, Irwin W., 1968 May p. 113. Sizmann, Rudolf, 1968 Mar. p. 97. Sizoo, G., 1971 Apr. p. 83. Sjögren, Hans O., 1967 Apr. p. 35; 1977 May p. 64. Sjogren, William L., 1968 Oct. p. 58; 1969 Oct. Sjöstrand, Fritiof, 1957 July p. 137; 1958 Mar. p. 118; 1962 Apr. p. 66, 71. Sjövall, Jan, 1971 Nov. p. 84. Skarnes, Robert, 1964 Mar. p. 44. Skeels, Harold M., 1951 Sept. p. 102; 1968 Sept. p. 91. Skeggs, Leonard T. Jr., 1954 Aug. p. 26; 1959 Mar. p. 56. Skell, Philip, 1976 Feb. p. 106, 108, 109. Skelly Oil Company, 1976 Dec. p. 36. Skelton, Owen R., 1977 Aug. p. 98, 99, 103. Skerfving, Staffan, 1971 May p. 21. Skertchly, S. B., 1963 Dec. p. 136. Skilling, William T., 1949 Dec. p. 53. Skinner, B. F., 1956 Oct. p. 107, 110, 114; Nov. p. 109; 1957 Jan. p. 58; 1958 Jan. p. 78; Dec. p. 58; 1961 July p. 114; Nov. p. 91; 1964 Mar. p. 48; May p. 98; 1966 Dec. p. 81; 1967 Mar. p. 81; 1968 June p. 64. Skinner, G. William, 1975 May p. 72-79. Skinner, H. D., 1956 Aug. p. 59 Skinner, H. W. B., 1956 July p. 48. Skipper, Howard E., 1964 May p. 94. Skjöldebrand, R., 1956 Aug. p. 54. Sklifosovsky Institute, 1962 Oct. p. 56. Skobeltsyn, Dmitri V., 1949 Nov. p. 27; 1951 May p. 36. Skobeltzyn, D. F., 1957 Sept. p. 107. Skodak, Marie, 1951 Sept. p. 102; 1968 Sept. p. 91. Skolem, Thoralf A., 1972 June p. 83. Skoog, Folke, 1963 Oct. p. 112; 1965 Nov. p. 79; 1968 July p. 76, 77, 79, 81. Skora, Irena, 1963 Sept. p. 86. Skornyakova, I. S., 1978 Feb. p. 56. Skoultchi, Arthur, 1974 July p 44. Skripov, V. P., 1972 Dec. p. 70, 71. Skulachev, V. P., 1976 June p. 46.

Skutil, J., 1963 July p. 55.

Skvarla, John, 1968 Apr. p. 90. SLAC, see: Stanford Linear Accelerator Center. Slack, C. M., 1964 Jan. p. 115. Slack, C. R., 1969 Dec. p. 70. Slack, Christina, 1970 May p. 84. Slack, Glen A., 1962 Dec. p. 99. Slack, Roger, 1973 Oct. p. 84. Slack, Warner V., 1955 June p. 56. Slade, D. V., 1969 Dec. p. 92. Slade, Walter, 1976 June p. 114. Sladen, Frank, 1955 Aug. p. 57. Sladen, William J. L., 1957 Dec. p. 45, 50; 1964 Feb. p. 95, 96, 100; 1965 Sept. p. 82 Slama, Karel, 1965 Oct. p. 39; 1966 May p. 53; 1967 July p. 16, 17; 1968 May p. 54. Slamecka, Norman J., 1964 Mar. p. 93. Slate, David J., 1973 June p. 93: 1977 June Slater, Daniel, 1953 May p. 81. Slater, E. C., 1968 Feb. p. 36; May p. 124; 1978 Mar. p. 113. Slater, J. H., 1948 May p. 57. Slater, James, 1973 Mar. p. 86. Slater, James C., 1970 Apr. p. 54. Slater, John C., 1966 Dec. p. 56. Slater, N. B., 1964 July p. 105. Slater, William E., 1962 Jan. p. 53, 54. Slatis, Herman, 1955 Nov. p. 59. Slavkin, Harold C., 1976 May p. 64. Slavsov, P. A., 1952 May p. 76. Slawinski, Matthew, 1966 Dec. p. 66. Slay, Alton D., 1977 Mar. p. 60. Slayter, Games, 1965 Feb. p. 34; Oct. p. 21. Slayter, Henry S., 1962 Feb. p. 48; Mar. p. 62; 1963 Dec. p. 48, 51; 1966 Apr. p. 109. Slee, Bruce, 1975 Aug. p. 26. Slee, O. B., 1949 Sept. p. 41; 1964 Aug. p. 18; 1966 June p. 30. Slee, Vergil, 1963 Aug. p. 22. Sleet, W. E., 1973 June p. 60. Sleight, Robert, 1953 Apr. p. 78, 82. Slepian, David, 1975 Apr. p. 37. Slettebak, Arne, 1963 Feb. p. 48, 49. Sletten, Knut, 1969 July p. 87. Slichter, Charles P., 1966 July p. 74. Slichter, Louis B., 1950 Dec. p. 57; 1966 Oct. p. 30, 32, 33; 1972 Apr. p. 50. Slifer, Eleanor H., 1961 May p. 138. Slijper, E. J., 1966 Aug. p. 17. Slipher, E. C., 1953 May p. 65, 67, 68, 70, 72, 73. Slipher, V. M., 1952 Feb. p. 45; 1953 May p. 69; 1956 Sept. p. 175, 80; 1964 Nov. p. 43; 1973 June p. 30; 1975 Sept. p. 74. Sliwinski, Marian, 1973 Oct. p. 48. Sloan, Alfred P., 1963 May p. 75. Sloan, D. H., 1948 June p. 29. Sloan, David H., 1954 Oct. p. 40, 43. Sloan Foundation, 1973 Oct. p. 24. Sloan, Gilbert J., 1967 Dec. p. 72 Sloan, Richard K., 1966 Apr. p. 57, May p. 62 Sloanaker, R. M., 1978 June p. 91 Sloanaker, Russell, 1960 Jan. p. 49; 1961 May p. 60, 65. Sloan-Kettering Institute for Cancer Research, 1953 Aug p 48; 1956 Oct p. 54, 1957 Dec p 54; 1960 Mar p 93; 1968 Aug p 35, 36. 39, 40; 1971 July p 30, 1977 May p 63, 68, 79, 76; July p 44, Oct p 97 Slobodkin, L. B. 1964 Sept p 153 Slocombe, Patrick M. 1977 Dec p 56 Slocumb, Charles H. 1950 Mar p 33 Slomovits, Minam, 1974 Dec. p. 30 Slonezewski, T.S., 1961 June p. 156 Slonimski, Piotr P. 1970 Nov p 27 Slotkin, J. S., 1951 Oct. p. 40 Slotnick, D L., 1971 Feb p 76 Sloviter, Henry A. 1956 June p. 166, 104

Feb. p. 25. Sparks, R. S. J., 1978 Apr. p. 122. Sparnaay, M. J., 1962 Apr. p. 114. Sparrow, Arnold H., 1953 Feb. p. 48, 50; 1959 Sept. p. 94; 1963 June p. 45. Sparrow, James G., 1971 Jan. p. 42. Sparrow, John H. A., 1972 July p. 39. Spassky, B. A., 1950 Jan. p. 35. Spassky, Boris, 1973 June p. 93. Spassky, G. I., 1969 Aug. p. 75. Spatz, Lawrence, 1972 Feb. p. 33; 1974 Mar. p. 30. Spealman, C. R., 1955 Apr. p. 48. SPEAR Laboratory, 1976 Aug. p. 44A, 44B. Spear, Patricia G., 1974 Nov. p. 69. Spear, Walter E., 1977 May p. 42. Spearman, C. E., 1970 Mar. p. 72. Spearman, Charles E., 1963 Mar. p. 96. Speck, John F., 1950 June p. 40. Spector, Deborah H., 1975 Dec. p. 48. Spectra-Physics, Inc., 1973 Feb. p. 89, 97. Spedden, H. Rush, 1956 Dec. p. 108. Speer, Albert, 1949 Mar. p. 17. Speirs, A. L., 1962 Aug. p. 31. Speiser, Andreas, 1976 Aug. p. 99. Speiser, Ephraim, 1953 Nov. p. 43. Spelsberg, Thomas C., 1972 Mar. p. 42; 1975 Feb. p. 52; 1976 Feb. p. 38. Spemann, Hans, 1950 Feb. p. 53, 54; June p. 18; 1953 Sept. p. 108, 109; 1957 Nov. p. 83-86; 1958 Dec. p. 37, 38; 1961 Sept. p. 143; 1967 Nov. p. 27. Spence, R. W., 1956 Dec. p. 67. Spencer, A. E., 1965 Nov. p. 58. Spencer, A. N., 1967 Sept. p. 186. Spencer, Cornelia, 1949 Dec. p. 55. Spencer, David, 1974 Dec. p. 95. Spencer, Douglas A., 1961 Nov. p. 120. Spencer, Herbert, 1950 Apr. p. 58; 1953 Feb. p. 78; 1954 Jan. p. 73; 1956 May p. 72; 1965 Oct. p. 88, 90. Spencer, Herta, 1966 May p. 47. Spencer, L. J., 1961 Aug. p. 51; Nov. p. 58. Spencer, M., 1962 Aug. p. 53; 1975 Aug. p. 40, Spencer, W. Alden, 1970 July p. 58, 63, 64. Spencook, Stephen, 1962 Nov. p. 123. Spenser, Edmund, 1949 June p. 46; 1969 June p. 80. Sperber, Zanwil, 1973 May p. 24, 27. Sperling, George, 1966 July p 92, 93; 1968 Sept. p 207 Sperling, Harry G., 1975 Mar. p. 74. Sperry, Elmer A., 1970 Mar. p. 80. Sperry Gyroscope Company, 1963 July p. 44, Sperry, R. W., 1959 Nov. p. 73; 1961 Aug. p. 66; 1970 July p. 57, 58; 1974 June p. 50. Sperry Rand Corporation, 1966 Sept. p. 85, 95, 96, 1974 Nov p 51 Sperry, Roger W. 1967 June p 122; Aug. p. 24; 1969 Jan p 75, 1973 Feb. p 26; July p. 103. Speciack, Jerome, 1975 Oct. p. 24. Speyer, Joseph F. 1962 Feb p 76, Mar. p. 68. Spiegel, John C., 1960 Mar p. 152 Spiegel, Melvin, 1954 June p. 74, 75 Spiegelman, Sol. 1950 Nov. p. 34, 38; 1952 June p 72, 1953 Sept p 114; 1961 Sept. p. 82; 1962 Apr p 77, 1963 Mar p. 83; 1965 Nov p 50, 1967 Sept p 103; 1970 Sept. p 82. Spiegler, Gottfried, 1972 Sept. p. 89. Spielman, Andrew, 1968 Apr. p. 113. Spier, Leslie, 1948 Dec. p. 45 Spilhaus, Athelstan F., 1954 Feb. p. 64: 1966 May p 52, 1974 Aug p 10 Spiller, Eberhard A. 1977 June p 41. Spinak, S., 1969 Oct. p. 37, 38

Spindel, William, 1956 Feb. p. 52. Spindrad, Hyron, 1967 Nov. p. 61. Spinelli, D., 1968 Aug. p. 74. Spinelli, Nico, 1969 Jan. p. 76, 79, 80. Spink, Wesley W., 1964 Mar. p. 42, 44, 45. Spinoza, Baruch, 1949 Oct. p. 13; 1952 Mar. p. 73; 1953 Feb. p. 84; 1958 Sept. p. 101, 102; 1967 Aug p. 98. Spinrad, Bernard, 1975 Nov. p. 30-31. Spinrad, Hyron, 1963 Aug. p. 52; 1965 May p. 30; Aug. p. 26; 1971 Mar. p. 46. Spiro, Robert G., 1974 May p. 82 Spitaler, Rudolf, 1971 Dec. p. 86. Spitger, Lyman Jr., 1956 Nov. p. 60. Spitsyn, B. V., 1975 Nov. p. 106. Spitz, Armand, 1957 Dec. p. 39. Spitz, René, 1972 July p. 76, 82. Spitzer, Lyman Jr., 1948 May p. 38, 42, 44; Nov. p. 24; 1949 Jan. p. 38; Aug. p. 25; 1952 Oct. p. 55; 1953 Aug. p. 82; Sept. p. 69; 1955 Nov. p. 54, 77; 1956 Feb. p. 41; Sept. p. 108, 131; 1957 Dec. p. 84; 1958 Mar. p. 50; June p. 45; 1959 May p. 52, 58; 1960 July p. 152; 1965 June p. 46; 1966 Dec. p. 24; 1967 July p. 78; 1974 May p. 113; 1978 Apr. p. 117. Spitzer, Paul, 1970 Apr. p. 73. Spitznagel, John K., 1967 Nov. p. 67. Spoehr, H. A., 1953 Oct. p. 31. Spooner, William A., 1973 Dec. p. 110, 111; 1977 Jan. p. 49. Spörer, Gustav, 1977 May p. 80, 88, 92. Sporn, M. B., 1967 June p. 116. Sporn, Philip, 1949 Oct. p. 27; 1953 July p. 42; 1954 Dec. p. 53; 1966 Mar. p. 55; 1968 Feb. Spottiswoode, William, 1971 May p. 84-86. Spotts, Charles R., 1966 Apr. p. 106. Spragg, S. D. Shirley, 1964 Mar. p. 46; 1965 Feb. p. 83. Spraggins, R. L., 1971 Nov. p. 89. Sprague, George F., 1975 June p. 15. Sprague, James M., 1972 Dec. p. 75, 77. Sprat, Thomas, 1977 June p. 128, 129. Spratling, Mansel G., 1977 Dec. p. 163. Spratt, Nelson, 1959 Mar. p. 94, 96. Sprecher, W., 1969 Oct. p. 22. Sprigg, R. C., 1961 Mar. p. 72-74, 75, 77. Spring, Francis, Sir, 1948 June p. 56. Springer, John S., 1948 June p. 52. Springfield, Franklyn, 1958 Aug. p. 72. Sproll, Walter P., 1969 Aug. p. 50; 1970 Oct. p. 34, 40. Sproule, D. O., 1978 May p. 98. Sprunt, D. H., 1949 July p. 16. Spurr, A. R., 1973 May p. 54. Spurr, Stephen H., 1970 Feb. p. 96. Spusscio, 1960 Nov. p. 166. Spyrides, George, 1963 Mar. p. 90, 93. Squire, John M., 1974 Feb. p. 60; 1975 Nov. Squires, R. K., 1959 Mar. p. 61. Sramek, Richard A., 1970 Aug. p. 44; 1972 Feb. p. 82. Srejović, Dragoslav, 1968 Apr. p 50. Srinivas, M. N., 1967 Feb. p. 105 Smnivasan, P. R., 1968 Nov. p. 56. Sriranganathan, N., 1973 Nov. p. 50 Sromovsky, Lawrence, 1974 July p. 70. St Christopher's Hospice, 1973 Sept. p. 56-58. St. Groth, Stephen F. de, 1973 July p. 56. St. Joe Minerals Corporation, 1973 July p. 43 St. Louis Children's Hospital, 1970 Apr. p. 94, 96, 97 St. Louis Citizens Committee for Nuclear Information, 1963 Nov. p. 65. St. Louis Medical Society, 1955 Feb. p. 35. St. Louis University, 1964 Oct. p. 29

St. Mary's Hospital Medical School, 1963 June St. Paul's Cathedral, 1960 Apr. p. 116; 1961 Aug. p. 84. St. Petersburg Academy, 1958 Nov. p. 32. St. Thomas Hospital Medical School, 1961 Mar. Staats, Arthur W., 1967 Mar. p. 81. Stacey, K. A., 1960 Jan. p. 108. Stacey, Michael, 1957 Sept. p. 168; 1972 May p. 34. Stachelin, Andrew, 1977 July p. 24. Stackelberg, M. von, 1956 Apr. p. 88; 1962 July p. 84. Stackpole, Peter, 1962 July p. 62. Stadius, Johannes, 1973 Dec. p. 90, 99. Stadler, L. J., 1951 Oct. p. 25; 1956 Oct. p. 82; 1959 Sept. p. 138, 98. Stadtman, Earl, 1954 Jan. p. 35. Stadtman, Earl R., 1973 Oct. p. 62. Staehelin, L. Andrew, 1978 May p. 141, 142; June p. 112. Staehelin, M., 1966 Feb. p. 34. Staehelin, Theophil, 1963 July p. 66; Dec. p. 46; 1964 Mar. p. 55; 1969 Oct. p. 31. Stafne, Marilyn J., 1953 Aug. p. 29. Stagg, Frederick, 1951 Dec. p. 40. Stahl, Franklin W., 1958 Apr. p. 50; 1964 May p. 51; 1965 Aug. p. 74, 75; 1966 Jan. p. 37; 1967 Feb. p. 39; 1969 Oct. p. 29. Stahl, Georg E., 1960 June p. 106. Stahl, George E., 1958 Mar. p. 95. Staib, J. A., 1969 Nov. p. 57. Stair, Alva T., 1968 Oct. p. 48. Staïs, Valerios, 1959 June p. 61, 64. Stakman, Elvin C., 1949 Feb. p. 29; 1950 Dec. p. 26; 1951 June p. 32; 1953 July p. 59. Stalin, Joseph, 1949 May p. 26; Dec. p. 40; 1950 Aug. p. 15; 1951 Nov. p. 32; 1953 Sept. p. 74; 1962 Nov. p. 41, 45, 46; 1968 Dec. p. 23; 1972 Apr. p. 16; 1975 Oct. p. 113. Stallard, H. B., 1978 Feb. p. 119. Stallcup, William, 1973 Oct. p. 58. Stallings, Herbert, 1959 June p. 82. Stallman, F. W., 1949 Apr. p. 26. Stamires, George, 1959 June p. 63. Stamler, Jeremiah, 1966 Aug. p. 55; 1977 Feb. p. 78. Stamm, Alfred J., 1955 Oct. p. 50. Stamm, John S., 1964 Jan. p. 44. Stampar, Andrija, 1948 Aug. p. 31. Stanbury, John B., 1965 June p. 58. Standard Oil Company, 1948 Sept. p. 13, 14; 1967 Jan. p. 62. Standard Oil Company of California, 1954 Mar. p. 44; 1965 July p. 35. Standard Oil Company of New Jersey, 1953 Apr. p. 50; 1966 Sept. p. 200; 1971 Sept. p. 65. Standard Oil Company of Ohio, 1966 Feb. p. 27. Standard Oil Development Company, 1953 Oct. p. 58; 1968 July p. 99. Standard Telephones and Cables, Ltd., 1952 Aug. p. 49. Standing, Lionel G., 1970 May p. 104. Standish, M. M., 1972 Feb. p. 34. Stanford Linear Accelerator Center, 1961 Nov. p. 49-54; 1967 Oct. p. 41-46; 1968 June p. 44; 1971 June p. 60, 61, 65, 66, 72; July p. 96, 99-104; 1973 Oct. p. 105; 1974 May p. 59; Aug. p. 46; Dec. p. 118; 1975 Jan. p. 48; Feb. p. 40, 66; May p. 43; June p. 51-55, 58; July p. 46; Oct. p. 48; 1976 Apr. p. 55; Aug. p. 42; 1977 June p. 37, 41; Oct. p. 59-61, 67, 70; 1978 Mar. p. 51, 72 Stanford Research Institute, 1952 June p. 21; 1956 Jan. p. 48; 1957 Dec. p. 43; 1960 Jan.

Snow, Catherine E., 1977 Feb. p. 101. Snow, Charles E., 1956 Aug. p. 65. Snow, Charles, Sir, 1961 Feb. p. 66; 1963 Dec. Snow, John, 1971 Aug. p. 15. Snyder, Allan W., 1976 July p. 112. Snyder, C. W., 1963 July p. 84. Snyder, Conway, 1971 Aug. p. 70. Snyder, Elmer, 1974 June p. 115. Snyder, Hartland, S., 1948 June p. 27. Snyder, Hartland S., 1952 Nov. p. 42. Snyder, Hartland, S., 1953 May p. 43. Snyder, Hartland S., 1967 Nov. p. 90; 1972 May Snyder, J. C., 1955 Jan. p. 75. Snyder, John C., 1963 July p. 42; 1964 Jan. Snyder, Laurens H., 1955 Feb. p. 77; 1956 Feb. p. 48; 1957 Feb. p. 60; 1958 Feb. p. 44. Snyder, Lewis E., 1969 May p. 54; 1973 Mar. p. 60; 1974 May p. 110; 1978 June p. 96. Snyder, Solomon H., 1974 June p. 71; 1977 Feb. p. 50; Mar. p. 44, 48. Snyder, William, 1952 Nov. p. 68. Snyderman, Ralph B., 1973 Jan. p. 26; Nov. Snyderman, Reuven K., 1958 Apr. p. 52. Soal, S. G., 1956 Mar. p. 60. Soane, Ian D., 1975 Aug. p. 58. Sobel, André, 1977 Feb. p. 113. Sobel, Edna H., 1972 July p. 78. Sobell, Henry M., 1974 Aug. p. 82. Sobell, Morton, 1951 May p. 34; 1954 June p. 30; 1966 Oct. p. 43. Sober, Herbert A., 1958 Aug. p. 50; 1966 Feb. Soberman, Robert K., 1961 Aug. p. 66. Sobin, L. H., 1968 Aug. p. 39. Sobolev, G. A., 1975 May p. 21, 23. Sobolev, S. L., 1954 Sept. p. 82. Sochard, Minnie R., 1969 July p. 87. Social Research Foundation, 1953 Apr. p. 44. Société de Navigation Aérienne, 1952 Jan. p. 70. Société Française des Pétroles, B.P., 1965 Jan. p. 49; Oct. p. 13, 16. Society for American Archeology, 1948 Dec. p. 13; 1956 Feb. p. 48. Society for Medieval Archeology, 1976 Oct. p. 125. Society for Physical Research, 1978 June p. 88. Society for the Prevention of Cruelty to Animals, 1964 Oct. p. 58. Society of American Bacteriologists, 1948 May p. 33. Society of Automotive Engineers, 1948 May p. 33; Sept. p. 29; Dec. p. 27; 1949 May p. 29. Society of Friends, 1973 Sept. p. 120. Society of Naval Architects and Marine Engineers, 1966 Aug. p. 61, 66. Socolar, Sidney J., 1960 Aug. p. 105; 1970 May Socony-Vacuum Oil Company, 1948 Sept. p. 14; 1953 Oct. p. 58. Socrates, 1949 Apr. p. 44; Oct. p. 50; 1950 Aug. p. 47; 1957 Mar. p. 105; 1958 Sept. p. 60; 1967 Jan. p. 102; Feb. p. 33; 1971 Mar. p. 50; 1973 Dec. p. 111; 1974 July p. 98. Soddy, Frederick, 1948 June p. 34; 1949 Feb. p. 32; Mar. p. 29; 1950 Sept. p. 30; 1955 May. p. 54; 1956 Nov. p. 102; 1958 Feb. p. 76; 1966 Aug. p. 89-92, 94, 95; 1967 Nov. p. 26. Soderblom, Laurence A., 1973 Jan. p. 63; 1976 Jan. p. 42, 43; 1977 Jan. p. 94. Soderblom, Lawrence A., 1978 Mar. p. 89. Sodi-Pallares, Demetrio, 1961 Nov. p. 134. Soell, Dieter, 1965 June p. 57. Soergel, Wolfgang, 1972 Mar. p. 69.

Soffer, Bernard, 1969 Feb. p. 34. Sognnaes, Reidar F., 1957 Dec. p. 109, 110. Sokal, Robert R., 1966 Dec. p. 106, 114-116; 1971 Apr. p. 62. Sokoloff, Louis, 1978 Feb. p. 97. Sokolov, Eugene, 1969 Jan. p. 78. Sokolov, S. Y., 1978 May p. 98. Solberg, Thorvald A., 1949 Feb. p. 12, 14, 15. Soldan, Björn, 1952 Aug. p. 60. Solecki, Ralph S., 1951 Feb. p. 15; 1954 June p. 82; 1957 Dec. p. 96; 1958 Aug. p. 52; 1960 Sept. p. 134; 1968 Nov. p. 97; 1969 Apr. p. 81. Solez, Kim, 1977 Feb. p. 82 Solheim, Wilhelm G., 1976 Sept. p. 70. Solinus, Caius J., 1968 Oct. p. 114. Sollas, William J., 1949 Nov. p. 21; 1953 Dec. Solliday, A. L., 1952 Feb. p. 16. Solomon, Arthur K., 1960 Dec. p. 146, 149; 1961 Apr. p. 121; Sept. p. 171; 1962 Oct. p. 107; 1963 June p. 86; 1964 Aug. p. 19; 1965 Oct. p. 78; 1971 Feb. p. 89. Solomon, D. J., 1975 Oct. p. 104. Solomon, Fredric, 1965 May p. 48. Solomon, King, 1950 Dec. p. 53; 1960 Apr. p. 158; 1965 July p. 88, 89; 1969 Dec. p. 41; 1973 Jan. p. 85, 87. Solomon, Philip M., 1968 Dec. p. 43; 1972 Feb. p. 71. Solomon, Richard L., 1972 June p. 113. Solomonoff, Ray J., 1975 May p. 48, 49, Solon the Wise, 1950 Aug. p. 47; 1966 Feb. p. 102. Solonenko, V. P., 1977 Apr. p. 40. Solow, Robert M., 1966 Mar. p. 55. Sols, Alberto, 1973 Oct. p. 54. Soltys, T. J., 1963 July p. 38. Solvay Process Company, 1949 Dec. p. 35. Someren, V. G. van, 1963 Aug. p. 45. Somers, G. F., 1962 Aug. p. 33. Sommerfeld, Arnold, 1949 May p. 16; 1950 Sept. p. 30; 1952 Mar. p. 49; Dec. p. 44; 1963 July p. 112, 113, 115. Somov, M. M., 1961 May p. 96. Sondergaard, Arensa, 1949 Dec. p. 55, 56. Sondheimer, Franz, 1972 Aug. p. 39. Soneira, Raymond M., 1977 Nov. p. 76. Sones, F. Mason Jr., 1968 Oct. p. 38-40. Sonett, Charles P., 1963 July p. 84; 1965 Mar. p. 61; 1971 Aug. p. 66; 1975 Jan. p. 31. Sonne, John C., 1949 Feb. p. 35. Sonneborn, Tracy M., 1949 Dec. p. 24; 1950 Feb. p. 24; Sept. p. 57; 1953 Apr. p. 38, 41. Sonnerup, Bengt, 1965 Mar. p. 63. Sonnino, T., 1971 Oct. p. 94. Sonotone Corporation, 1953 Feb. p. 40. Sonstegard, David A., 1978 Jan. p. 44. Soper, Fred L., 1976 Oct. p. 28. Soper, Robert, 1977 Apr. p. 108. Sophia, 1969 July p. 42. Sophia Charlotte, 1969 July p. 43. Sophia Dorothea, 1969 July p. 43. Sophocles, 1949 Jan. p. 22-26; 1958 Sept. p. 60, 61; 1972 Dec. p. 91. Soranus, 1950 Mar. p. 42. Sorbo, Bo, 1959 Nov. p. 79. Sorby, Henry C., 1962 Oct. p. 44; 1963 Oct. p. 67; 1967 Sept. p. 75, 90; 1975 Apr. p. 116. Sorensen, Christian, 1969 May p. 64. Sorensen, Sven P. L., 1950 June p. 33; 1951 Jan. p. 40. Sorenson, J. H., 1970 Nov. p. 84. Soreq, Hermona, 1976 Aug. p. 69. Soret, J. L., 1951 Nov. p. 30. Soria, Raphael, 1954 Apr. p. 61. Soriano, A., 1959 Apr. p. 82 Soriano, M., 1970 Apr. p. 43.

Sorieul, Serge, 1969 Apr. p. 26. Sörm, F., 1964 Dec. p. 76; 1967 Nov. p. 54; 1974 July p. 77. Sorokin, P. P., 1961 June p. 58; 1965 Oct. p. 40. Sorokin, Peter, 1967 June p. 83. Sorokin, Sergei, 1973 Apr. p. 79, 80. Sorokina, 1951 Oct. p. 34. Sorski, Jack, 1972 Mar. p. 42. Sosman, Merrill, 1948 Oct. p. 10. Sosnowski, Thomas, 1973 Feb. p. 97. Sotavalta, O., 1965 June p. 77. Soter, S., 1975 Sept. p. 66. Sotter, J. George, 1968 Dec. p. 94. Souffrin, S., 1969 Jan. p. 31. Soum, J. M., 1971 Dec. p. 74. Soupart, Pierre, 1974 Sept. p. 55. Soutar, Andrew, 1969 Sept. p. 154; 1974 Aug. p. 21. South African Institute for Medical Research, 1957 Mar. p. 134. South African Multiple Sclerosis Society, 1970 July p. 42. South African National Physics Research Laboratory, 1971 Apr. p. 97. South African Transvaal Museum, 1970 June South Australian Museum, 1961 Mar. p. 73. South Puerto Rico Sugar Company, 1961 Sept. South West Essex Technical College, 1958 Nov. p. 92. Southbury Training School, 1963 July p. 59. Southeastern Louisiana College, 1964 Mar. p. 46. Southern California Edison Company, 1950 Jan. p. 30; 1968 Feb. p. 27; 1974 Aug. p. 18. Southern Cayuga Atmospherium-Plantiarium, 1975 Aug. p. 102, Southern, H. N., 1955 Oct. p. 92, 94; 1957 May p. 125. Southern Illinois University, 1963 Nov. p. 118; 1964 July p. 94. Southern Natural Gas Company, 1967 Jan. Southern Research Institute, 1964 May p. 94. Southey, Reginald, 1956 Apr. p. 116. Southey, Robert, 1960 Mar. p. 145; June p. 108. Southwest Research Institute, 1964 July p 38. Southwick and Vauxhall, 1971 Aug. p. 15 Southwick, Charles, 1960 Sept. p. 96; 1969 July p. 109, 110. Southwood, T. R., 1963 Dec. p. 137 Southworth, G. C., 1949 Sept. p. 38; 1950 Oct. p. 39; 1956 Oct p. 56 Souttar, Henry, Sir, 1960 Feb p 79. Soviet Physical Society, 1949 Nov p 27 Soviet Union, see U.S.S.R Sowa, J., 1964 Jan. p. 81 Space Technology Laboratories Inc., 1961 Oct p. 97, 1963 Aug. p. 32 Spackman, D H., 1961 Feb p 84, 86 Spaeth, M. L., 1969 Feb. p. 33 Spafary, Nikolai, 1969 Aug. p 75 Spain, David M. 1951 Aug. p. 30, 1966 Aug. Spain, Robert S. 1963 Aug. p 20 Spallanzani, Lazzaro, 1948 Dec p 29, 1950 Aug. p 52, 1954 Aug. p 45, 1956 June p 195 1958 July p 40, Sept p 100, 102, Oct p e0. 88, 1960 Oct. p 117 Spangler, Eugene R., 1961 July p. 64 Spanish Astronomical Center Aleman Almeria. 1978 Apr p 115 Span+ay, Helen, 1954 May p. 76, 71, +0 Sparks, Alton, 1970 Apr. p. 43 Sparks, Morgan, 1954 Lane p. 43, 1955 No. p 31, 1959 Janep 120, 1960 Sept p 33, 1770

San, Velvin, 1969 Apr p 50 san, Otto, 1949 Dec p 14, 1965 May p 58-61, 6465, 67, 72, 74, 1967 Nov p 27 am, Richard M., 1965 Mar p 38 Sambach, Richard A, 1967 Jan p 31 Samberg, J., 1952 Oct p 25 Samberg, Michel, 1976 May p 35 Samberg, Saul, 1971 Aug p 83 \mathref{main} ass, E. J., 1956 Mar p 90 Semlieb, Irmin, 1968 May p 103, 111 5 rison, Chandler A , 1964 Mar p 40, 43 Setson, Karl, 1965 June p 35, 1968 Feb p 45, Setson, R E, 1974 Apr p 43 Stetten, De Witt Jr , 1958 Aug p 50 Schens, Audrey, 1961 Aug p 64, 1962 Feb p 45, 1963 Mar p 83 Sciens, Charles F, 1977 Feb p 115 Stevens Institute of Technology, 1957 Oct p 88, 1971 Feb p 110 Smens, Jack G, 1974 Feb p 33 Stevens, Johanna, 1968 Dec p 106 Stevens, Kenneth N, 1969 Dec p 54 Sterens, Robertson, 1961 May p 82 Stevens, S S, 1948 July p 40, 1974 Nov p 84 Stevenson, Adlar, 1953 May p 48, 47, 1954 May p 31-35 Sterenson, Augusta, 1949 Dec p 56 Stevenson, C H, 1973 Mar p 92 Stevenson, E. C., 1948 June p 28, 1949 Nov p 42, 1952 Jan p 25 Stevenson, J A F, 1950 Mar p 34 Sterenson, M L, 1961 June p 58, Nov p 80, 1963 Jan p 45 Stevenson, R. W H, 1967 Sept p 186 Stevenson, Robert L, 1949 Oct p 31, 1956 Aug p 59 Stever, H Guyford, 1973 Mar p 44, 1975 July p 45 Sievin, Simon, 1970 July p 18, 1977 Nov Sleward, F. C., 1957 Apr. p. 126, 127 Sleward, Frederick C, 1949 Aug p 17 Sleward, Oswald, 1977 June p 90 Stewart, Alec T, 1969 Feb p 19, 1975 July p 39 Stewart, Balfour, 1949 Jan p 38, 1955 Feb p 41, Sept p 126, 132, 1968 Nov p 90 Slewart, F H C, 1956 Sept p 113 Stewart, G Alexander, 1973 May p 39 Stewart, George, 1958 Apr p 57 Slewart, Ian, 1977 July p 123 Slewart, John, 1975 Sept p 37 Stewart, John M., 1965 Aug p 46, 1968 Mar p 70 Stewart John N , 1973 Oct p 75 Stewart, Lyman, 1969 Feb p 18 Stewart, Mark A. 1970 Apr p 94, 1974 July Stewart, Milton, 1969 Feb p 18 Stewart, Murray 1975 Nov p 43 Stewart Omer C 1951 Oct p 40, 1954 Sept p 55 Stewart, Potter 1969 Feb p 17 Stewart Robert W 1969 Sept p 150, 64, 1970 Jan p 115 1973 Feb p 72 Stewart Sarah E., 1960 Nov p 67, 1961 June p 106, 1962 Apr p 75, 1977 May p 64
Stevart T Dale 1954 Sept p 76, 1958 Aug. p 52, 1960 July p 85, 1961 Sept p 86
Stewart William B 1978 Leb p 97
Stewart William H 1967 Oct p 49 Stewartson Keith 1968 Leb p 80 Stewert William L. 1977 Apr p 44 Subitz George R 1949 Apr p 33, 1966 Sept. p 67 Since Olen F 1563 Mir p 93

Stiebel, Fritz, 1961 Mar p 160 Stief, L J, 1973 Mar p 61 Stiefel, Edward I, 1977 Mar p 72 Stiefel, Tina, 1978 Jan p 68, 69 Stiesdal, Hans, 1958 Mar p 47 Stigler, George J, 1957 Sept p 106 Sules, W S, 1964 Nov p 58, Dec p 56 Sulle, Alfred, 1969 Feb p 69 Stille, Hans, 1972 June p 57 Stillinger, Frank H Jr, 1966 Dec p 122 Sullman, R M, 1966 Feb p 99 Sumson, J Frank, 1956 Aug p 59, 63, 67 Sune, James H, 1975 May p 68 Stirling, James, 1948 July p 52-54, 1978 June p 120 Surling, Robert, 1948 July p 52-54, 1965 Apr p 119 - 121, 1973 Aug p 80-87 Surnimann, F, 1961 May p 68 Surpe, F, 1975 Mar p 97 Sushov, S M., 1962 Feb p 78 Stjarne, Lennart, 1971 Nov p 91 Stock, Alfred E, 1964 Jan p 88-91, 1966 July p 101, 1971 May p 19, 20 Stockard, Charles R., 1952 Feb p 62 Stocker, Bruce, 1958 Nov p 43, 1975 Aug p 41 Stockert, Elizabeth, 1977 May p 68 Stockert, Elizabeth, 1977 Oct p 97 Stockham, Thomas G Jr, 1975 July p 48 Stockhausen, Karlheinz, 1959 Dec p 113, 1967 Dec p 103 Stockholm International Peace Research Institute, 1962 May p 46, 47, 1970 May p 17, 1972 Nov p 19, Dec p 40, 1974 Oct p 32, Dec p 60, 1975 Jan p 48, Apr p 22, Nov Stockholm Metropolitan Traffic Company, 1965 Stockholm School of Economics, 1965 Sept Sept p 118 p 108 Stockler, H A. 1971 Oct p 92 Stockley, William 1948 Sept p 54, 55 Stockton, Alan N, 1966 July p 54, Dec p 41, 43, 52, 45, 1970 Dec p 27, 28 Stockton, Charles G, 1963 Mar p 118, 127, Stockton, Charles W, 1972 May p 97 Stocum David L, 1977 July p 69 Stoddard, George D, 1953 Sept p 72 Stodola, F H 1957 Apr p 132 Stodolsky, Leo 1971 July p 101 Stoeckemus, Walther, 1962 Apr p 68, 1975 Nov p 58 1977 Aug p 94, 1978 Mar p 123 Stoerk, H C, 1963 Nov p 103 Stoffers, Peter 1978 May p 61 Stoffler Georg 1976 Oct p 44 Stoicheff, Bons P 1964 Aug p 40, 1968 Sept Stoker, Michael G P 1963 Jan p 51, 1967 Stokes Allen W 1971 June p 112 Stokes George G Sir 1953 Nov p 93, 1955 Sept p 168 1956 Nov p 93, 1959 Dec p 122 Stokes J Lort, 1956 June p 48 49 Stokes John H 1958 Feb p 24 Stokes, Joseph Jr 1953 June p 52, July p 27, 1954 Feb p 62 1956 Mar p 58 Stokes Marvin A 1972 May p 97 Stokols, Daniel S 1976 Oct p 106 Stokowski Leopold 1948 July p 33 Stokstad E. L. R. 1950 June p. 29, 1952 Apr p 53 Stoll M 1962 Nov p 94 Stoller Mari unne L., 1956 Aug p 63 Stolpe, M. 1975 Nov p 83 Stoltenhoff 1953 May p 91

Stommel, Henry M, 1950 June p 48, 1953 Nov p 33, 1955 Sept. p 96, 104, 1970 Jan p 115, 1974 May p 62, 1975 June p 93 Stone and Webster, 1970 May p 47 Stone, Arthur H, 1956 Dec. p 162, 164, 166 Stone, C A, 1965 Nov p 50 Stone, David, 1949 July p 44 Stone, Edmond, 1963 Nov p 96-98 Stone Edward, 1963 Nov p 97 Stone, Edward D, 1974 Feb p 105 Stone, Enc, 1970 Jan p 36 Stone, Erik A, 1972 June p 113 Stone, Harlan F, 1951 July p 30, Oct. p 25 Stone, I T, 1965 May p 21 Stone, J F S, 1953 Dec p 58 Stone, Joseph K., 1975 Mar p 49 Stone, Joyce D, 1951 May p 44, Dec p 45 Stone, L B, 1972 Jan p 31 Stone, L F, 1949 Dec p 26 Stone, Leon, 1973 Feb p 27 Stone, Leon S, 1956 May p 48, 1959 Nov p 73 Stone, Melvin L, 1968 July p 31 Stone, Peter H, 1976 Mar p 52 Stonehouse, Bernard, 1957 Dec p 48 Stoney, G Johnstone, 1950 Oct p 31 Stoney, George J. 1953 Nov p 93 Stonier, Tom T, 1962 Feb p 72 Stonor, C R, 1963 Aug p 38 Stookey, S Donald, 1964 Mar p 59 Stope, Mane, 1959 May p 62 Storck, R., 1960 June p 134 Storer, Arthur, 1963 Sept p 88 Storer, John H., 1955 Mar p 90, 1956 Mar p 116, 1957 Aug p 48 Storey, H H, 1953 June p 80 Storey, L. R. O., 1955 Sept p 55, 1960 July p 63, 1963 Nov p 49 Storkerson, Storker, 1954 Dec p 41 Storm, Dan R., 1970 Aug p 46 Stormer, Carl, 1949 Jan p 32, 1959 Mar p 44, Aug p 41-43, 1975 Sept p 161 Storruste, A, 1960 Apr p 76 Story Maskelyne, N , 1955 Nov p 43 Stothers, Richard, 1976 Feb p 50 Stotler, W A, 1961 Oct. p 138 Stotz, Robert, 1966 June p 50, 52 Stouffer, Samuel A, 1978 June p 46 Stout, Arthur, 1962 July p 46 Stout, George L, 1952 July p 22 Stout, Glenn E., 1968 Apr p 49 Stout, J W, 1966 Dec p 121, 122 Stout, John, 1974 Aug. p 42 Stout, Robert, 1976 Mar p 116 Stout, William B, 1964 June p 30 Stoutenberg D V, 1955 Sept p 69 Stowell, Avenil, 1958 Aug p 89 Straat, Patricia A., 1977 Nov p 59 Strabo, 1954 Nov p 98, 101, 1956 July p 39, 1963 Oct p 97, Dec p 109, 1968 Oct p 114 Strachey, Christopher, 1966 Sept p 112, 120, Strachey, William, 1948 Sept p 41 Stradivari, Antonio, 1948 July p. 37, 1962 Nov p 79, 87, 90, 1969 Feb p 45 Stradler, L. J., 1971 Jan p 88 Stradner, Herbert, 1972 Dec p 33 Straelen, Viktor van, 1962 June p. 105 Strahler, Arthur N , 1975 July p 94-96 Strain, H. H., 1951 Mar. p. 35, 38 Strait, Louis 1956 Feb p 102 Straka William C. 1978 Jan p 82. Stram, B., 1969 Oct. p. 23 Strampelli, Alzareno, 1953 July p 59 Strand, Kaj Aa., 1952 Aug. p. 52, 1960 Apr. p 61 Strandberg, B E., 1961 Dec p 98

p. 79; Aug. p. 58; 1965 May p. 45; Oct. p. 32; 1966 Mar. p. 103, 107; 1969 May p. 83; 1970 Mar. p. 58; 1976 Feb. p. 55. Stanford University, 1953 Jan. p. 38; Feb. p. 40; 1956 July p. 55, 56, 58; 1958 Aug. p. 58, 62; 1960 Aug. p. 50, 54, 55; 1962 June p. 90; Sept. p. 81; 1963 Jan. p. 44; June p. 140; Aug. p. 26, . 35; 1964 Feb. p. 39; Sept. p. 149, 55; 1965 May p. 68; June p. 24; July p. 21; Oct. p. 60; 1966 Mar. p. 58; Sept. p. 208; Nov. p. 110, 107, 111; 1970 Mar. p. 58; 1973 Oct. p. 80; 1974 Dec. p. 43; 1977 Oct. p. 68. Stanford University Press, 1977 Dec. p. 87. Stanford University School of Medicine, 1963 June p. 83; July p. 42; 1965 Mar. p. 82; 1977 Mar. p. 45; July p. 50. Stanford Unversity Medical Center, 1977 May p. 54. Stanhope, Charles, 1952 Mar. p. 68, 69. Stanier, Roger Y., 1966 Apr. p. 106. Stankevitch, K. S., 1956 Jan. p. 46. Stanley, Gordon, 1949 Sept. p. 38, 41; 1962 Mar. p. 42; 1966 June p. 30; 1975 Aug. p. 26. Stanley, Henry M., 1971 Dec. p. 94. Stanley, Karen, 1977 Dec. p. 163. Stanley, Patrica, 1965 Mar. p. 57. Stanley, Wendell M., 1948 Dec. p. 31; 1949 May p. 20, 28; Dec. p. 14; 1950 June p. 32; Sept. p. 63, 66; 1951 June p. 47; 1952 Dec. p. 28; 1953 June p. 79; 1954 Jan. p. 44; 1955 July p. 75, 77, 78; 1956 June p. 42, 54; 1961 Jan. p. 80; Feb. p. 83; 1967 Nov. p. 25, 27. Stannard, F. Russell, 1967 Jan. p. 102. Stannard, J. N., 1951 Feb. p. 30. Stans, Maurice H., 1971 Sept. p. 76; 1973 June p. 16. Stansly, P. G., 1952 Apr. p. 50. Stanton, Alfred H., 1962 Aug. p. 71. Stanton, Frank, 1953 Mar. p. 44. Stanush, Claude, 1952 Feb. p. 31. Stanway, S., 1968 Jan. p. 23. Stapledon, Olaf, 1971 Sept. p. 51. Stapleton, George E., 1959 Sept. p. 180, 78; 1960 Jan. p. 107. Staplin, Frank L., 1963 Mar. p. 48. Stapp, John P., 1955 Oct. p. 45; 1962 Feb. p. 67. Stare, Fredrick J., 1967 Jan. p. 58. Stark, Banker F., 1973 Dec. p. 110. Stark, Freya, 1969 Dec. p. 36. Stark, George, 1975 Apr. p. 47. Stark, Harold M., 1977 July p. 131. Stark, Johannes, 1956 Nov. p. 96; 1966 Aug. p. 92; 1967 Nov. p. 26; 1968 Mar. p. 91, 95. Stark, Lawrence, 1971 June p. 35; 1972 July p. 88. Stark, Nellie M., 1973 Dec. p. 63. Stark, William, 1949 Oct. p. 35. Starkey, R. L., 1955 June p. 90. Starkweather, John A., 1965 Mar. p. 89. Starley, J. K., 1973 Mar. p. 81-83, 85-88. Starley, James, 1973 Mar. p. 82-85, 87, 88. Starley, William, 1973 Mar. p. 82, 83, 85, 88. Starling, Ernest H., 1949 Sept. p. 44, 45; 1950 Sept. p. 71; 1951 Oct. p. 56-61; 1957 Feb. p. 53; Mar. p. 77; 1958 Dec. p. 118; 1963 June p. 80, 83, 84; 1965 May p. 93. Starobin, Oscar, 1950 Aug. p. 41. Staron, Thadèe, 1975 Mar. p. 100, 101. Starr, Chauncey, 1971 Sept. p. 37. Starr, Mortimer P., 1952 Jan. p. 38; 1954 July p. 59. Starr, Victor P., 1964 Mar. p. 62; 1968 Jan. p. 111; 1970 July p. 72; Sept. p. 63; 1973 Apr. p. 57, 58, 60. Stasiak, Eugene, 1968 Aug. p. 93. Stasicrates, 1954 May p. 71. Stass, John W., 1975 Nov. p. 112.

State University of Iowa, 1958 July p. 52; 1962 Sept. p. 76; 1963 May p. 84, 92; Nov. p. 118; 1965 Mar. p. 67; Dec. p. 59; 1966 May p. 64. State University of New York, 1963 Mar. p. 118; Aug. p. 104; 1964 Aug. p. 56; 1977 Dec. p. 87. State University of New York at Buffalo, 1970 June p. 84; 1978 Apr. p. 78. State University of New York at Stony Brook, 1973 Jan. p. 44; 1975 Sept. p. 53; 1976 Apr. p. 56. State University of New York College of Medicine, 1963 Apr. p. 122; 1964 Feb. p. 58. State University of New York Downstate Medical Center, 1960 Nov. p. 87. Statehood Republican Party, 1966 Oct. p. 24. Staub, A. M., 1963 Nov. p. 106. Staudinger, Hermann, 1953 Dec. p. 49; 1956 Nov. p. 81; 1957 Sept. p. 88; 1961 Jan. p. 92; 1967 Nov. p. 28. Staughton, Roger, 1970 May p. 21. Stavenga, Doekele G., 1977 July p. 108. Staverman, A. J., 1960 Dec. p. 154, 155. Stavis, Benedict, 1975 June p. 15, 20. Stearns, Martin, 1956 Oct. p. 102. Stearns, Mary, 1956 Oct. p. 102. Stebbings, R. F., 1968 Oct. p. 46. Stebbins, G. Ledyard Jr., 1950 Jan. p. 33; 1953 July p. 51; 1959 Sept. p. 142. Stebbins, Joel C., 1948 July p. 24; 1952 Feb. p. 47; 1954 Mar. p. 58, 59; 1956 Sept. p. 165. Steche, Wolfgang, 1967 Apr. p. 97. Steck, Theodore L., 1972 Feb. p. 31, 32. Stecker, Floyd W., 1976 Oct. p. 78. Stedman, Donald J., 1967 Dec. p. 50. Stedman, Edgar, 1975 Feb. p. 48. Stedman, Ellen, 1975 Feb. p. 48. Stedman, R. J., 1956 Sept. p. 113. Steel Company of Wales, 1963 Dec. p. 79, 86. Steel Improvement and Forge Company, 1961 Jan. p. 84. Steele, B. D., 1954 Feb. p. 78. Steele, Francis R., 1953 Jan. p. 27. Steele, J. H., 1973 Dec. p. 56. Steele, M. C., 1963 Nov. p. 52, 53. Steele, William, 1973 May p. 36. Steelman, John R., 1948 June p. 7; 1950 July p. 11, 12; Oct. p. 24. Steen, Jon, 1965 Nov. p. 112. Steen, Lynn A., 1971 Aug. p. 92. Steenbock, Harry, 1968 July p. 46; 1970 Dec. p. 80. Steenken, William, 1949 Oct. p. 39. Steensberg, Axel, 1956 Mar. p. 39. Steer, Charles, 1950 Mar. p. 55. Stefansson, Evelyn, 1960 Dec. p. 137. Stefansson, Vilhjalmur, 1954 Dec. p. 41; 1960 Dec. p. 137; 1962 Sept. p. 213. Steffy, J. Richard, 1971 Aug. p. 23. Steggerda, F. G., 1955 Dec. p. 68. Steggles, Alan W., 1972 Mar. p. 42. Stehli, F. G., 1968 Apr. p. 59. Steiglitz, Kenneth, 1970 July p. 100. Stein, Aurel, Sir, 1971 June p. 102. Stein, Charles, 1977 May p. 119-123, 126, 127. Stein, Clarence, 1954 Apr. p. 61. Stein, Gabriel, 1970 Aug. p. 76. Stein, Gary S., 1975 Feb. p. 47, 53; 1976 Feb. p. 38. Stein, Janet S., 1975 Feb. p. 47; 1976 Feb. p. 38. Stein, John F., 1976 Nov. p. 92, 92, 93. Stein, Morris L., 1958 July p. 54. Stein, P. R., 1964 Sept. p. 214. Stein, W. D., 1961 Feb. p. 91. Stein, William H., 1950 June p. 35; 1955 May p. 37; July p. 76; May. p. 56; 1961 Jun. p. 79; Feb. p. 81; Apr. p. 58; Oct. p. 58, 67; Dec.

p. 96; 1964 Dec. p. 71; 1967 Mar. p. 49; 1972 Dec. p. 41; 1975 Apr. p. 47. Steinart, Harold, 1976 Oct. p. 65. Steinbach, H. B., 1949 Sept. p. 15. Steinbach, H. Burr, 1954 Mar. p. 32. Steinberg, Arthur, 1954 Feb. p. 57. Steinberg, Saul, 1949 Apr. p. 45. Steinberger, Jack, 1956 Aug. p. 31; 1957 July p. 74; 1962 Aug. p. 53; 1963 Mar. p. 68; Oct. p. 39. Steinbrecht, R. A., 1974 July p. 29, 33. Steiner, André, 1963 Apr. p. 149. Steiner, Bruce, 1968 Nov. p. 64. Steiner, Donald F., 1969 Mar. p. 36. Steiner, Gary W., 1975 Jan. p. 81, 82, 87, 88. Steiner, Herbert, 1955 Dec. p. 47; 1956 June p. 41. Steiner, Jakob, 1964 Sept. p. 210; 1978 Jan. p. 107. Steiner, Paul E., 1955 Dec. p. 56. Steinfeld, George, 1974 Jan. p. 82. Steinhardt, Richard A., 1977 Nov. p. 134, 135, 138. Steinhardt, Robert, 1970 May p. 82. Steinhart, Carol E., 1974 June p. 48; Sept. p. 169; 1976 Sept. p. 170. Steinhart, John S., 1974 June p. 48; Sept. p. 169; 1976 Sept. p. 170. Steiniger, F., 1954 May p. 79. Steinman, David B., 1954 Feb. p. 42. Steinmann, E., 1965 July p. 83. Steinmetz, David, 1965 Oct. p. 42. Steinway, Henry, 1965 Dec. p. 92. Steitz, Thomas A., 1968 Apr. p. 49; 1974 June p. 50. Stekel, Wilhelm, 1949 Oct. p. 54; 1951 May p. 60. Steketee, J. A., 1971 Dec. p. 87. Stekly, Z. J. J., 1967 Mar. p. 120. Stell, William, 1971 July p. 57. Stellar, Eliot, 1965 Mar. p. 45; 1967 June p. 116. Stelle, Charles C., 1963 Jan. p. 58. Stendhal, see: Beyle, Marie H., Sten-Knudsen, Ove, 1970 Apr. p. 85. Steno, 1953 Jan. p. 51. Stent, Gunther S., 1953 May p. 36, 38; Dec. p. 39; 1957 Sept. p. 196; 1972 Sept. p. 31; Dec. p. 84; 1974 Jan. p. 38, 48; 1975 Feb. p. Sténuit, Robert, 1966 Mar. p. 27, 30-32. Step, Edward, 1972 Nov. p. 71. Stephan, Heinz, 1974 July p. 112, 113. Stephens, F. E., 1949 Dec. p. 29. Stephens, G. C., 1954 Apr. p. 35; 1955 July p. 92. Stephens, G. G., 1975 June p. 92. Stephens, Ronald R., 1970 Feb. p. 44. Stephenson, F. Richard, 1976 July p. 66. Stephenson, Gordon R., 1976 Oct. p. 104 Stephenson, Marjorie, 1951 Apr. p 60 Stephenson, Mary L., 1959 Dec. p. 59 Stephenson, Richard, 1976 June p 49 Stephenson, William, 1952 Nov p 72 Steptoe, P. C., 1970 Dec. p 48, 50, 51 Sterlegov, Marie, 1961 May p. 89 Sterling, Julian A., 1962 Oct. p 50 Sterling, Peter, 1972 Dec. p. 77-79 Sterling-Winthrop Institute for Therapeunic Research, 1966 Nov p 135, 136 Stern, Curt, 1960 May p. 123, 124, 1974 July p. 36 Stern, E. R., 1949 July p. 18 Stern, Edward A. 1977 June p. 41 Stern, Isaac, 1974 Nov p 37 Stern, Joshua, 1958 Nov p 62 Stern, Kurt G. 1943 Dec p 35, 1951 Dec p 47, 53: 1959 Aug p 121

1971 Sept. p. 92; 1974 Apr. p. 48. Superior Tube Company, 1962 June p. 65. Suppes, Patrick, 1966 Sept. p. 207, 72, 170. Surgenov, Douglas M., 1951 Sept. p. 54. Surgent, Louis V., 1965 Oct. p. 62. Suri, J. C., 1968 Apr. p. 77. Survival Technology, Inc., 1972 Aug. p. 45. Susskind, Leonard, 1975 Feb. p. 63; Oct. p. 45. Sussman, Joel L., 1978 Jan. p. 59. Sussman, Marvin B., 1956 Nov. p. 54. Sussman, Maurice, 1959 Dec. p. 152; 1961 Sept. p. 144; 1963 Aug. p. 90; 1969 June p. 82. Sussman, Raquel, 1961 Sept. p. 144. Sustruta, 1958 Feb. p. 29. Sutcliffe, W. H., 1964 Nov. p. 60. Sutherland, Duke, 1951 Feb. p. 44. Sutherland, Earl W. Jr., 1968 Oct. p. 61; 1969 June p. 78; 1970 Oct. p. 48; 1971 Dec. p. 38; 1972 Aug. p. 97, 98, 100; 1973 Oct. p. 61; 1977 Aug. p. 109-111. Sutherland, Ian, 1955 Sept. p. 76. Sutherland, Ian W., 1978 Jan. p. 86. Sutherland, Ivan E., 1966 Sept. p. 182-184, 86; 1970 June p. 57, 73; 1977 Sept. p. 210. Sutherland, Stuart, 1965 Mar. p. 43; 1976 Dec. p. 44. Sutherland, William R., 1966 Sept. p. 184, 186, Suthers, Roderick A., 1971 Dec. p. 74. Sutleffe, Edward, 1969 July p. 42. Suttner, Baron von, 1949 Dec. p. 11. Sutton, Daniel, 1976 Jan. p. 115, 116. Sutton, Everett, 1952 Oct. p. 44. Sutton, John E., 1969 Jan. p. 46. Sutton, Peter, 1976 Dec. p. 45. Sutton, Robert, 1976 Jan. p. 115. Sutton, Thomas, 1961 Nov. p. 118-120, 122, 125, 128. Sutton, W. H., 1965 Feb. p. 36. Sutton, Walter S., 1950 Sept. p. 56; 1961 Nov. p. 66. Sutton, William, 1973 Mar. p. 87, 88. Sutton-Gersh, Eileen, 1949 Oct. p. 48. Suzuki, David, 1973 Dec. p. 27, 36. Suzuki, K., 1973 Aug. p. 94. Suzuki, Y., 1967 Dec. p. 26. Svaasand, L. O., 1972 Oct. p. 67. Svaetichin, Gunnar, 1964 Dec. p. 48, 51. Svalgaard, Leif, 1975 Apr. p. 108. Svedberg, Thè, 1950 June p. 34; 1951 June p. 43-46, 48-50; Dec. p. 46, 47, 52; 1957 Sept. p. 88; 1967 Nov. p. 27. Svedberg, Theodor, 1961 Apr. p. 138; 1963 Nov. p. 115 Svennerholm, Lars. 1973 Aug. p. 90. Svenson, Eric, 1965 Sept. p. 210. Stensson, Harry, 1951 Dec. p. 49, 51; 1965 Aug. Sverdrup, Harald U., 1955 Jan. p. 31; 1959 Aug. p. 76; 1962 Sept. p. 115, 118, 124; 1969 Sept. p 153; 1970 Jan. p. 115. Sveriges Riksbank, 1969 Dec. p. 50, Svistunova, K. L., 1976 June p. 30, 31, 34, Swadesh, Morns, 1956 Aug. p. 67. Swainson, William, 1959 Feb. p. 77. Swallow, John C. 1958 July p. 88. Swaminathan, M., 1954 Oct. p. 49. Swammathan, M. S., 1971 Jan. p. 91, 95. Swammerdam, Jan. 1950 Feb. p. 41; 1959 Feb. p 100, 101 Swan, John M., 1953 Dec. p. 52. Swan, Joseph W., 1969 Mar. p. 104, 106, 107. Swan, Lawrence W., 1961 Oct. p. 68; 1970 Sept. p. 47 Swank, R. L., 1970 July p. 43. Swank, Wendell G. 1960 Nov. p. 133.

Swann, M. M., 1953 Aug. p. 56, 59; 1959 July

p. 130. Swann, Michael M., 1961 Sept. p. 105; 1977 Nov. p. 131. Swann, Peter R., 1963 Aug. p. 78; 1966 Feb. p. 75, 81. Swann, W. F. G., 1949 Aug. p. 24; 1953 Sept. p. 67. Swanson, C. P., 1953 Jan. p. 22. Swanson, Vernon E., 1971 Sept. p. 66. Swart, Edward, 1977 Oct. p. 117. Swarthmore College, 1958 Sept. p. 156; 1963 Jan. p. 109; Oct. p. 120; Dec. p. 94. Swartout, J. A., 1951 Feb. p. 31; 1955 Oct. p. 64. Swartz, Fred, 1974 Nov. p. 54. Swartz, Harold M., 1971 Dec. p. 33. Sweden, 1977 Jan. p. 26. Swedenborg, Emanuel, 1954 July p. 30; 1978 June p. 88. Swedish Central Organization of Salaried Employees, 1975 Mar. p. 19. Swedish Confederation of Trade Unions, 1975 Mar. p. 19, 23. Swedish Employers Confederation, 1975 Mar. p. 19, 25. Swedish General Electric Company, 1965 May Swedish International Peace Research Institute (SIPRI), 1972 Jan. p. 44; Apr. p. 54; 1976 Jan. Swedish Karolinska Institute, 1957 Nov. p. 83; 1962 Mar. p. 64; 1971 Nov. p. 91; 1977 Apr. p. 49; May p. 64; July p. 46; Aug. p. 115. Swedish Medical Board, 1971 May p. 15. Swedish National Bacteriological Laboratory, 1977 July p. 47. Swedish National Bank, 1975 Mar. p. 19. Swedish National Defense Research Institute, 1975 Apr. p. 26. Swedish National Institute of Public Health, 1971 May p. 21. Swedish National Labor Board, 1965 Sept. p. 109. Swedish Natural Science Research Council, 1951 Jan. p. 21. Swedish Royal Academy of Sciences, 1973 Dec. p. 55. Swedish Royal Carolina Medico-Surgical Institute, 1964 Mar. p. 113. Swedish Royal Geotechnical Institute in Stockholm, 1963 Nov. p. 133, 137, 138. Swedish Royal Institute of Technology, 1977 Mar. p. 91. Swedish Royal Society of Göteborg, 1950 Aug. p. 43. Swedish Royal Technological Institute, 1965 Mar. p. 63. Swedish Royal Veterinary College, 1971 Nov. Swedish Space Committee, 1963 June p. 57, 58. Swedish Water and Air Pollution Research Laboratory, 1971 May p. 17. Sweedie, M. W. F., 1957 Jan. p. 116. Sweeney, Thomas E., 1974 May p. 61. Sweet, Henry, 1972 Sept. p. 73 Sweet, Leon A., 1949 Aug. p. 34. Sweet, Richard G., 1976 Mar. p. 111; May p. 34. Sweet, William H., 1955 Oct. p. 41. Swenson, Leland, 1968 June p. 73. Swett, John E., 1972 May p. 36. Swezey, Kenneth M., 1949 Dec. p. 56, 57. Swiatecki, Władysław J., 1965 Aug. p. 55; 1969 Apr. p. 63, 64; June p. 38, Swift, Dean, 1948 Nov. p. 55. Swift, Hewson, 1975 Feb. p. 49. Swift, Jonathan, 1948 Nov. p. 52, 53, 1952 Mar. p. 68; 1958 Sept. p. 162; 1960 May p. 81; 1962 Oct. p. 41; 1974 July p. 111.

Swift, Lewis, 1949 Sept. p. 29. Swinburne, Algernon C., 1956 May p. 47. Swineshead, Richard, 1973 May p. 85. Swings, Polydore, 1965 May p. 35. Swinton, Alan A. C., 1974 Mar. p. 101. Swiss Federal Institute for Snow and Avalanche Research, 1966 Feb. p. 97; 1971 Apr. p. 97. Swiss Federal Institute of Technology, 1962 Apr. p. 101; 1963 Feb. p. 135; July p. 114; 1966 Nov. p. 64; 1977 Apr. p. 34. Swiss Institute for Nuclear Research, 1977 May p. 56. Swiss Institute of Experimental Gerontology, 1963 Apr. p. 104. Swiss Laboratory for Time Keeping Research, 1957 Feb. p. 75. Swithenbank, J., 1968 Dec. p. 94. Switsur, Roy, 1977 Mar. p. 119. Swizychi, Stefan J., 1970 Nov. p. 28. Swope, Henrietta H., 1950 Feb. p. 38; 1964 May Sydenham, P. H., 1978 Feb. p. 111. Sydenham, Thomas, 1954 Dec. p. 98; 1965 July p. 92; Dec. p. 67; 1966 Nov. p. 131; 1977 Mar. p. 44. Sydoriak, S. G., 1949 June p. 37; 1958 June p. 35. Sykes, James E., 1973 Mar. p. 93. Sykes, Lynn R., 1972 May p. 58; 1975 May p. 17, 23. Sylvania Electric Products, Inc., 1951 Mar. p. 28. Sylvester, Henry R., 1951 July p. 21. Sylvester, J. J., 1956 Mar. p. 110; 1964 Sept. Sylvius, Franciscus de le Boe, 1948 Oct. p. 28, Sylvius, Jacobus, 1948 May p. 26, 30. Symington, Stuart, 1954 May p. 48; 1962 Apr. p. 52; 1973 Oct. p. 47. Symko, O. G., 1969 Dec. p. 31, 34, 35. Symon, Keith R., 1958 Mar. p. 73; 1966 Nov. p. 113. Symonds, Neville, 1953 May p. 39. Symons, Robert, 1975 July p. 26. Synanon, 1971 Mar. p. 41. Synge, John L., 1949 Oct. p. 11, 12, 14. Synge, R. L. M., 1950 June p. 35; 1951 Mar. p. 39; 1952 Dec. p. 29; 1955 May p. 37; 1961 Feb. p. 81; 1962 June p. 93; 1963 July p. 50; 1967 Nov. p. 28. Syntex Research, 1966 May p. 52. Syr, Sigurd, 1967 July p. 44, Syracuse University, 1963 July p. 124; 1965 Oct. p. 21; 1971 Feb. p. 35. Syrovatskii, S. I., 1969 Feb. p. 55, 63. Syrovatsky, S. S., 1966 Aug. p. 35. Systems Development Corporation, 1966 Sept. p. 129, 208. Syva Research Institute, 1971 Nov. p. 30, 31, 33. Szabó, George, 1968 July p. 41, 42; 1972 Feb. Szabo, T., 1960 Oct. p. 124. Szalai, Alexander, 1974 Sept. p. 143. Szasz, Thomas S., 1973 Mar. p. 46. Sze, Kenneth C., 1963 Jan. p. 66. Szekely, George, 1959 Nov. p. 73. Szenberg, Aleksander, 1962 Nov. p. 55; 1974 Nov. p. 60. Szentágothai, János, 1975 Jan. p. 63; 1976 July p. 48. Szentágothar, John, 1966 May p. 107. Szent-Gyórgyi, Albert, 1949 Sept. p. 14, 15; 1950 Sept. p. 64; 1951 July p. 32; 1952 Dec.

p. 19; 1953 Apr. p. 90; 1954 Mar. p. 74; 1957

p. 68; 1961 Sept. p. 196, 200; 1962 Mar. p. 62;

Sept. p. 208, 212; 1958 Apr. p. 42, 44; Nov.

Strander, Hans, 1977 Apr p 49 Strang, Gerald, 1972 Sept p 38 Strang, Leonard B, 1973 Apr p 85 Strange and Graham, Ltd, 1956 Nov p 79, 81 Strasburger, Eduard, 1952 Oct p 79, 1968 June p 86, 88 Straschill, M., 1972 Dec p 78 Strassburger, Eduard, 1968 July p 55 Strassmann, Fritz, 1950 Sept p 31, 1955 Oct p 34, 1958 Feb p 76 Strategic Materials Corporation, 1963 Sept p 136 Strathdee, J, 1965 Mar p 53 Strathdee, John, 1978 Feb p 138 Strato, 1950 May p 20 Straton, John R, 1969 Feb p 17, 18 Stratton, Charles S , 1967 July p 102-105, 108 Stratton, George M, 1962 May p 64, 1967 May p 96, 102, 104 Stratton, Juhas A, 1954 Mar p 32, 1956 May p 54, Aug p 49 Stratton, W R, 1950 Jan p 44 Straub, F B, 1949 June p 23, 1952 Dec p 19 Straus, Werner, 1963 May p 69 Straus, William, 1953 Dec p 66, 70 Straus, William L Jr., 1956 June p 98, 1967 Apr p 60 Strauss, Lewis L, 1948 Dec p 26, 1949 July p 26, 33, 1950 Mar p 24, May p 27, 1951 May p 36, 1953 Apr p 46, Aug p 40, Sept p 72, Oct p 50, Nov p 50, 1954 May p 47, June p 44, Aug p 36, Nov p 34, 35, 48, Dec p 52, 1955 Jan p 43, Mar p 50, May p 50, Oct p 27, 30, Nov p 52, 54, 1956 Jan p 44, Mar p 48, 1958 Mar p 50, Aug p 50, 1975 Oct p 107 Strauss, Maurice J, 1953 Dec p 40 Strauss, Wallace P, 1956 Aug p 63 Stravinsky, Igor F, 1959 Dec p 110, 1967 Dec Strecher, Theodore P, 1971 Dec p 25 Street, J. C., 1948 June p. 27, 28, 1949 Nov p 42, 1952 Jan p 25, 1961 July p 46 Street, Kenneth Jr., 1950 May p 27, 1956 Dec Streeter, George L, 1948 Oct p 27 Strehler, Arnold, 1974 Dec p 82 Strehler, Bernard L, 1951 Sept p 54, 1970 Aug p 83, 1974 Dec p 82 Streisinger, George, 1963 Jan p 55, 1966 Oct p 59 Streissle, Gert, 1963 Aug p 51 Strelsin, Alfred A, 1959 Mar p 70 Streseman, Erwin, 1963 Nov p 108 Stresemann, Erwin, 1963 Aug p 45 Stretton, A O W, 1964 Mar p 54, 1965 Aug p 43 Stricker, P., 1950 Oct p 20 Stricker, S., 1963 Nov p 96, 98 Stride, E, 1961 Feb p 43 Strittmatter, P A, 1968 Oct p 35, 1973 June p 38 Strittmatter, Phillip, 1972 Feb p 33, 1974 Mar Stormer, Carl, 1964 Apr p 66 Strnat, Karl, 1970 Dec p 96 Strobel, Gary A, 1978 June p 86 Stroke, G W, 1968 Feb p 41, 43, 1976 Oct p 93 Strom, Richard G. 1975 Aug. p 26, 29, Oct p 56 Strom, Robert G, 1975 Sept p 63 Stromberg, Robert R , 1969 Sept p 90, 1970 Nov p 70 Stromeyer, Charles F. 1970 Mar p 62, 1976 Strömgren, Bengt, 1955 May p 44, 1963 Apr Dec p 45

p 66, 67, 1974 Oct p 38, 39 Stromgren, E, 1951 July p 22 Strominger, Jack L, 1957 Mar p 70, 1969 May p 97, 98, 1977 Oct p 104 Strommel, Henry, 1973 Feb p 74 Stromsvik, Gustav, 1955 May p 85 Strong, F M, 1968 July p 77 Strong, Herbert M, 1955 Apr p 47, Nov p 46, 1960 Jan p 74, 1974 Aug p 62, 1975 Nov Strong, Ian B, 1976 Oct p 66, 1977 Oct p 54 Strong, John, 1949 Mar p 46, 1950 May p 28, 1952 June p 52, 54, 50, 1963 July p 60, 1965 Aug p 23, 1968 Sept p 79, 80, 1975 Sept p 74, 77, 1976 Aug p 79 Strong, Leonell, 1952 July p 60 Strong, Maurice F, 1972 Aug p 42 Strong, William D, 1954 Aug p 29 Strope, W E, 1962 Feb p 72 Stroppini, E W, 1977 Jan p 47 Stross, Fred H, 1972 May p 90 Stroud, Robert M. 1973 Nov p 56, 1977 Feb p 112 Strouhal, Vincenz, 1970 Jan p 40 Stroup, Richard, 1961 Apr p 108 Strowger, Almon B, 1962 July p 134 Struever, Stuart, 1977 June p 61 Strumwasser, Felix, 1965 Oct p 41, 1967 May p 47, 48, 1968 Mar p 110, 1971 Feb p 71 Strutinsku, V M, 1969 Apr p 63 Strutt, John W, 1950 May p 21, 24, 50, Dec p 51, 1953 Feb p 70, 72, 74, 1955 Nov p 43, 1957 June p 102, 104, 106, 1958 Sept p 80, 1960 Oct p 145, 153, 1961 Oct p 132 1962 Apr p 131, 1963 May p 57, 1964 May p 66, Sept p 45, Nov p 110, 111, 113, 1965 Nov p 32, Dec p 94, 1966 Mar p 106. Aug p 94, Oct p 64, 1967 Nov p 26, 1968 June p 93, Sept p 101, 64, 65, 75, 1969 Nov p 105, 1970 Jan p 40, 1972 May p 30, Oct p 51, 1973 Nov p 32, 1975 Mar p 72, 73, Sept p 56, 1976 Mar p 111, June p 31, July p 106, Aug p 77, 83, Nov p 74, 1977 Apr p 124 Strutt, R J, 1966 Aug p 94 Struve, Otto, 1950 Sept p 24, 1953 May p 56, 1955 May p 44, 1958 July p 35, 46, 1960 Apr p 61, Nov p 97, 1963 Feb p 49, 1971 Dec p 21 Struwe, Fredrich G W, 1977 June p 68 Stuart, Ann, 1974 Jan p 38 Stuart, James, 1950 Aug p 47 Stuck, Hudson, 1949 Jan p 47 Stuckelberg, E C G, 1963 Oct p 44 Studdert-Kennedy, Michael, 1973 Mar p 71 Student Mobilization Committee to End the War in Vietnam, 1971 May p 46 Studier, M H, 1956 Dec p 67 Stuiver, Minze, 1970 Sept p 155, 1978 Jan p 42, 43 Stukeley, William, 1953 June p 26 1976 May p 98 Stumer, Louis M. 1955 Mar p 104 Stumpf, Walter E. 1972 Sept p 47 1976 Feb p 33, 35, July p 50 Stunkard, Albert, 1956 Nov p 110 Sturgeon, William, 1954 July p 74 1958 Feb p 29, 1971 May p 80 Sturm, R. E., 1956 Mar p 90 Sturner, Harry W. 1967 Sept. p 80 Sturtevant, A. H., 1954 Nov. p. 48, 1956 Oct. p. 81, 1961 Nov. p. 68, 1973 Dec. p. 32, 1976 Dec p 105, 1977 Feb p 81 Sturtevant E Lewis, 1950 Jul, p 23 Sturtevant J M. 1954 June p 30 Sturtevant, Julian M., 1962 Mar p 65 Stuttgart Natural History Museum 1972 Mar

p 67, 70 Stuttgart Technische Hochschule, 1965 Mar p 35 Styles, J A, 1967 Nov p 66 Subba-Row, Y, 1949 Apr p 18 Subbotin, V G. 1978 June p 66 Subrahmanyan, V, 1954 Oct p 49 Subtelny, Stephen, 1968 Dec p 35 Sucher, Irving, 1949 Feb p 38 Suciu-Foca, Nicole, 1978 Jan p 66 Sudarshan, E C G, 1966 Feb p 48, 1970 Feb Suddath, Fred L, 1978 Jan p 58 Suddeth, J A, 1953 Aug p 44 Suemoto, Z, 1962 Feb p 53 Suess, Eduard, 1950 Sept p 36, 1962 Sept p 175, 1968 Apr p 53, 1969 Sept p 72, 1970 Sept p 45 Suess, Hans E, 1957 Apr p 89, June p 52, 1958 Feb p 59, 1969 Apr p 63, 1970 July p 52, 1971 Oct p 68 Suetonius, 1951 Oct p 63 Sugawara, Ken, 1974 May p 67 Sugi, Y, 1972 Feb p 85 Sugihara, T F, 1973 Nov p 50 Sugimoto, Kazunori, 1973 Aug p 29 Sugino, Nobuliro, 1962 Aug p 100 Suit, Joan L, 1975 Dec p 34 Suits, C G, 1967 Sept p 256, 261 Sukhatme, P V, 1968 Nov p 33, 34 Suleiman the Magnificent, 1965 July p 84 Sulkin, S Edward, 1949 Sept p 21 Sulla, 1963 Dec p 115 Sulla, Lucius C, 1958 Apr p 71 Sullenger, Don B, 1966 July p 96 Sullivan, Anne, 1957 June p 150, 1958 June p 81 Sullivan, Arthur, 1972 Feb p 97 Sullivan, E.C., 1948 Oct p. 51 Sullivan, Harry S., 1948 Oct p 25, 1953 Jan p 63, 1957 Aug p 103, 1962 Aug p 66, 67 Sullivan, Louis, 1955 Mar p 45 Sullivan, Walter, 165 Jan p 52 Sullivan, William T, 1968 May p 53 Sully, Thomas, 1958 Mar p 68 Sulzano, F M, 1963 Nov p 115 Sulzer, J. G. 1950 Feb p 41 Summerfield, Martin, 1962 Oct p 59 Summerford, W T, 1952 Oct. p 25 Summers, Claude M, 1971 Sept p 149, 174, 42 1973 Jan p 15 Summers James L, 1960 Oct p 129, 137, 140 Summers Keith E., 1974 Oct p 51 Summerson John, 1972 Nov p 91 Sumner F B, 1952 Mar p 64, 65, 1957 Oct p 49 Sumner James B, 1948 Dec p 30, 31, 1949 Dec p 14, 1950 Sept p 66, 1959 Aug p 119 1961 Sept p 77 1967 Nov p 27 1971 Mar p 26 1977 June p 108, 111 Sump C H 1956 Jan p 52 Sumski S 1970 Oct p 54 Sun Dah Chen 1975 July p 64 Sun Dynasty 1971 July p 77 Sun Oil Refinery 1963 Sept p 111 Sunday Billy 1953 Jan p 63 Sundberg Johan 1977 Mar p 82 Sunderlin Charles E. 1951 Mar p 30 32 Sundstrand Corporation 1975 Feb p 22 Suneson C A 1959 Jun p 64 Suneson Su, 1959 Oct p 76 Sunshine, Philip 1972 Oct p 72 75 SUNY Le State University of New York Sunyaes Rash d 1974 Dec p 30 Sunjat, A. W., 1971 Oct. p. 4 Suc nalainen Paulo 1963 Mir p 116 Sums Verner E 1/1/1/1 p 63 Sept p 77

p 35 Teal, G K., 1952 July p Teal, John M, 1975 June p 90 Tear, James D, 1957 May p 51 Technical Operations Incorporated, 1965 June p 35 Tedd, J G, 1959 Mar p 69 Tedford, Richard, 1966 Mar p 90 Tefft, Richard, 1955 Dec p 43 Tegart, W J McGregor, 1975 Apr p 121 Tegin, Kul, 1963 Aug p 68 Tegner, Mia, 1977 Nov p 128, 130, 134 Tehan, Frederick J., 1977 July p. 104 Teichberg, Vivian, 1977 June p 108 Teichmann, Harold, 1971 May p 99 Teitelbaum, H A, 1948 Oct p 27, 37 Testelbaum, Perry D, 1963 Sept p 126 Teitelbaum, Philip, 1968 Mar p 112, 114, 116 Teitelman, Warren, 1966 Sept p 258 Tekkaya, Ibrahim, 1977 May p 31 Tektronix, Inc , 1973 Oct p 71 Tel Aviv University, 1964 Oct p 36 Tel Aviv University Wise Observatory, 1977 Aug p 33 Teledyne, Inc., 1977 Feb p 26 Telegdi, V L, 1957 Mar p 63, Oct p 56, 1959 Mar p 82, 1961 Mar p 80, July p 54, 1962 Jan p 53 Telemachus, 1958 May p 111, 115 Telemann, Georg P, 1974 Nov p 78 Telephonic Material of France, 1952 Aug p 50 Telesensory Systems, Inc , 1974 Jan p 51 Telford, Jane R., 1966 Nov p 135 Telford, John N, 1978 Mar p 105 Telkes, Mana, 1951 Feb p 63, 64, 1957 Mar p 40, 42 Telle, Hans-Joachim, 1977 May p 110 Tellemann, Georg P, 1975 Oct p 103 Teller, Edward, 1949 Aug p 24, 1950 Jan p 43, 1953 Sept p 67, 1955 Nov p 54, 1956 Nov p 60, 1957 Dec p 84, 1958 Jan p 44, 1960 June p 80, 1961 Mar p 104, Aug p 60, 1970 Jan p 58, 1972 Nov p 105, 106, 16, 20, 22, 1974 June p 24, Oct p 25, 1975 Oct p 106, 107, 110, 112 Teller, Joseph D, 1968 Aug p 38 Temin, Howard, 1952 Feb p 64 Temin, Howard M , 1970 Sept p 80, 1973 June p 89, 1975 Dec p 48, 1978 Feb p 123 Temmink, J. H. M., 1977 June p. 109 Temple, Stanley A, 1977 Oct p 82 Temple University, 1958 Mar p 106, 1965 June Temujin, 1963 Aug p 57-59 Ten Broeck, Carl, 1949 Sept p 18 Tenenhouse, Alan M., 1970 Oct p 50 Tener, G M. 1966 Feb p 33, 34 Teng, Ching-Sung, 1975 Feb p 52 Tennant, Smithson, 1955 Nov p 42, 1975 Nov Tennes Kathenne, 1953 Oct p 76 Tennessee Eastman Company, 1963 Jan. p 64 Tennessee Valley Authority, 1952 June p 25, 1954 Sept p 72, 1964 Sept p 186, 1969 Apr p 102 Tenney, Gerold H 1962 Nov p 119 Tennyson Alfred Lord, 1950 Nov p 52, 1958 June p 74 1959 May p 63, 1964 Oct p 78 Teofilo 1973 Apr p 88 Tera, Found 1974 July p 47 Ter Akopian G M 1978 June p 66 Terblanche, Gert 1949 Nov p 22 Terenin, A. 1965 May p. 66 Terenin Aleksander N. 1974 Dec. p. 79 Terenius Lars, 1977 Mar p 50 Terepka, A. R., 1970 Mar p. 89 Teil u ie Ribert W. 1963 July p. 35, 42, 1964

Apr p 42, 43, 45, 49 Terkel, Joseph, 1972 Nov p 52 Terkeltoub, Richard W, 1971 May p 50 Terman, Lewis M., 1955 Jan p 26, 1977 Sept Terra, G J A, 1968 July p 81 Terra, Noel de, 1961 Apr p 122 Terrace, Herbert S, 1961 Nov p 93 Terrell, Charles, 1972 Aug p 43 Terrell, James, 1960 July p 74, 1966 Dec p 43 Terry, Luther L, 1964 Jan p 25, Feb p 67 Terry, Robert D, 1973 Aug p 89 Terry, Theodore, 1955 Dec p 40 Terry, Theodore L, 1977 June p 100 Teschke, Rolf, 1976 Mar p 31 Tesla, Nikola, 1949 Dec p 35, 1954 Apr p 64, 1965 Mar p 93 Tessman, Ethel S, 1977 Dec p 61 Tessman, Irwin, 1977 Dec p 61 Tester, Albert L, 1962 July p 62 Tester, John R., 1968 Feb p 116 Tetley, F W, 1967 Sept p 234 Tetricus I, 1974 Dec p 125, 127 Teuber, Hans-Lucas, 1977 June p 98 Teubner, F G, 1958 Feb p 44 Tevis, Lloyd Jr, 1959 July p 94 Texaco Incorporated, 1972 Oct p 32, 33 Texas A&M University, 1973 Sept p 74, 1975 Jan. p 100, Aug p 48 Texas Company, 1948 Sept p 14, 1951 Oct p 34 Texas Forest Service, 1971 Nov p 96 Texas Gulf Sulphur Company, 1970 May p 63 Texas Instruments, Incorporated, 1965 Aug p 24, Nov p 56, 57, 62, 64, 68, 1966 July p 75, Sept p 80, 1970 Feb p 25, 26, 1973 Aug. p 55, 1976 Mar p 88, 1977 Sept. p 64, 140 Texas Technical College, 1963 Nov p 112 Texas Textbook Committee, 1965 Jan p 50 Thach, W Thomas Jr, 1973 July p 99 Thackeray, A D, 1953 June p 64, 1959 July p 53, 1964 Jan p 32, 37 Thackeray, William M, 1963 Sept p 57, 1976 Jan p 116, 117 Thackombau, King, 1953 May p 92 Thaddeus, Patrick, 1967 June p 33, 1978 Apr p 117, June p 96 Thailand Royal Department of Mines, 1961 Nov p 65 Thailand Royal Irrigation Department, 1963 Apr p 58 Thaler, R M, 1960 Mar p 111 Thales, Lucius A, 1977 Feb p 44 Thales of Miletus, 1948 June p 27, 1953 Jan p 56, 1960 June p 93, 1967 May p 126, 129, Dec p 105, 116, 1970 May p 116, 122, 1971 Mar p 50, 1972 Mar p 53, 1973 May p 82 Thambyahpillai, T, 1965 May p 36 Thampy, Kishore J, 1974 Sept p 68 Thant, U, 1969 Aug. p 48, 1970 May p 24 Tharp, Mane, 1960 Oct p 100, 104, 1961 Dec p 61 Thatcher, Jonathan S. 1949 Aug. p. 18 Thayer, William S. 1978 Mar p 121, 122. The, Pik-Sin, 1967 Aug p 34 Thede, Robert, 1974 July p 70 Theiler, Max, 1951 Dec p 34, 1955 Mar p 65, 70, 1967 Nov p 28, 30 Thellier, Emil, 1957 Feb p 64, 1963 Apr p 95 Thellier, O, 1957 Feb p 64 Themistocles, 1961 Mar p 113-116, 118, 120 Thenard Louis J, 1964 Jan p 88 Theobald, Archbishop, 1967 Dec. p. 92 Theodone of Freiberg, 1977 Apr p 116, 118, Theodondes, Jean, 1976 Aug p 87 Theophilus 1967 May p 69

Theophrastus, 1949 Nov p 49, 1966 Jan p 70, 1969 Dec p 40 Theopompus, 1967 Jan p 106 Theorell, Hugo, 1951 Dec p 49, 1955 Dec p 46, 1959 Aug. p 122; 1967 Nov p 28 Therien, Mercedes, 1954 Apr p 72 Therleff, 1977 Feb p 112 Therman, E., 1951 Oct p 34 Thernoe, K. A, 1961 Dec p 76 Theseus, 1949 June p 51 Thesleff, Stephen, 1977 Feb p 112 Thetford, William, 1952 Nov p 70 Theuerer, Henry C, 1967 Dec p 67 Thewlis, James, 1962 Nov p 109 Thibault, C, 1951 Mar p 47, 1978 June p 72 Thiederman, H L, 1963 Aug p 27 Thiel, E. C., 1960 Mar p 86 Thiela, Everett, 1964 July p 106 Thiele, Ernest W., 1949 Aug p 25 Thieme, Paul, 1960 Dec p 118 Thierfelder, H., 1964 July p 78 Thierry of Chartres, 1978 Jan p 68 Thiery, A, 1968 Nov p 68, 69, 71 Thiessen, Albert, 1973 Nov p 48, 1974 June p 25 Thiessen, G, 1959 May p 52 Thilly, William G, 1978 Apr p 85 Thilorier, C, 1949 June p 32 Thimann, Kenneth V, 1957 Apr p 129 Thimm, Fred, 1960 Jan p 144 Thiokol Chemical Company, 1966 July p 107 Thinon, Marcel, 1974 Feb p 96, Dec p 129, Thirring, Hans, 1950 Mar p 14, Sept p 46, 1952 Oct p 39, 1957 Sept p 107, 1959 May p 149, 154 Thiry, Lise, 1963 Oct p 47 Thiselton-Dyer, William, 1978 Feb p 108 Thoday, J M, 1959 Sept. p 98 Thode, H G, 1955 Nov p 50 Thom, Alexander, 1965 Mar p 105 Thom, Charles, 1949 Aug p 28 Thom, Rene, 1966 May p 120, 1976 Mar p 60D, Apr p 65, 75, 80, 82, 83 Thoma, Andor, 1966 Nov p 53 Thomas, Albert, 1966 July p 48 Thomas, Alexander, 1970 Apr p 97, Aug. p 102 Thomas Alva Edison Foundation, 1956 Jan. p 44 Thomas, Charles A, 1950 July p 26, Aug p 29, 1951 June p 31, Oct p 32, 1952 Jan p 34, Feb p 31, 1953 June p 43, 1955 Feb p 54 Thomas, Charles A Jr., 1973 Mar p 40 Thomas, Charles X., 1968 May p 97 Thomas, David R., 1971 Mar p 99 Thomas, E. A., 1963 Feb p 129 Thomas, E. E., 1961 Oct p 110 Thomas, E. Llewellyn, 1971 June p 35 Thomas, Emery, 1966 May p 118 Thomas, Gareth, 1963 Aug. p 78, 1967 Sept p 97, 1972 Oct p 46 Thomas, H A, 1949 May p 26 Thomas, H H, 1978 Jan p 69 Thomas, Harold A Jr., 1977 May p 24 Thomas, J Parnell, 1949 Feb p 16, 18, 19, 21 Thomas, Jean O, 1975 July p 48 Thomas, Julius A., 1951 Sept p 50, 1969 Nov p 57 Thomas, L. H., 1958 Mar p. 73 Thomas, Lewis, 1963 May p. 72, 1964 Mar. p 44, 1972 June p 37 Thomas, Mervyn, 1968 Aug p 90 Thomas, Norman 1963 Dec p 88 Thomas Percy H, 1949 Aug. p 24 Thomas, R. C., 1966 May p. 106 Thomas, Richard N. 1962 Feb p 55, 56 59

1967 Nov. p. 25, 27; 1974 Jan. p. 63; Feb. p. 59; 1978 Feb. p. 76. Szent-Györgyi, Andrew G., 1965 Dec. p. 22; 1974 Feb. p. 65; 1975 Nov. p. 37, 44. Szer, Włodzmierz, 1964 July p. 46. Szeto, Leo, 1973 Feb. p. 97. Szewczyk, T. S., 1955 Dec. p. 44. Szilard, Leo, 1949 July p. 42; 1950 Mar. p. 44; Dec. p. 27; 1951 May p. 23, 24; Oct. p. 24; 1955 Nov. p. 64; 1957 Sept. p. 107; 1960 June p. 82; 1965 Apr. p. 40; 1967 Feb. p. 36; July p. 50; Nov. p. 105, 107-109. Szmelcman, Sevec, 1976 Apr. p. 44. Szmuszkovicz, J., 1961 July p. 106. Szöke, Abraham, 1973 Dec. p. 79, 80. Szulman, A. E., 1964 June p. 59. Szurek, S. A., 1954 June p. 50. Szwarc, Michael, 1957 Sept. p. 101. Szybalski, Waclaw T., 1974 July p. 36; 1976 Dec. p. 106. Szymanowski, W., 1973 June p. 47. Szymanski, J. S., 1954 Apr. p. 34.

\mathcal{I}

't for names beginning thus, not listed here, see second element e.g., for 't Hooft, Gerhard, see: Hooft, Gerhard 't. Taber, Norman, 1976 June p. 114. Taber, Stephen III, 1972 Apr. p. 95. Tabershaw, Irving R., 1958 Aug. p. 29. Tabor, David, 1966 Mar. p. 62. Tabor, H., 1956 Jan. p. 50. Tabour, Herbert, 1958 Dec. p. 122. Taccolo, Mariano, 1970 Aug. p. 96-99. Tacitus, 1949 Aug. p. 11; 1958 Aug. p. 92; 1974 Dec. p. 130. Tadmor, N., 1956 Apr. p. 43. Taft, Robert A., 1949 June p. 14; 1961 Oct. Tagawa, Kunio, 1962 Oct. p. 60. Tagliamonte, Alessandro, 1970 Feb. p. 44. Tagliamonte, Paola, 1970 Feb. p. 44. Tagliasco, Vincenzo, 1974 Oct. p. 100. Tagore, Rabindranath, 1965 Sept. p. 98. Taguchi, Kazumi, 1958 Mar. p. 112. Tahara, Masuto, 1951 Apr. p. 55. Tahara, Yoshizumi, 1967 Aug. p. 62. T'ai Tsu, Emperor, 1974 Sept. p. 161. Taieb, Maurice, 1974 Dec. p. 64. Tainter, M. L., 1955 May p. 74. Tait, Peter G., 1952 Mar. p. 62, 63; 1953 Nov. p. 93; 1967 Nov. p. 106. Tait, R. I., 1973 Feb. p. 75. Tajfel, Henri, 1970 Nov. p. 96. Takahara, Shigeo, 1956 Dec. p. 134. Takahashi, Toshitada, 1977 May p. 68. Takahashi, Y., 1961 July p. 104. Takahashi, Yasuro, 1972 July p. 81. Takaki, T., 1968 Apr. p. 73. Takamoto, T., 1967 Nov. p. 54. Takaro, Timothy, 1962 Oct. p. 50. Takase, Kunio, 1976 Sept. p. 200. Takata, Kazuo, 1972 Dec. p. 69. Take, F. W., 1967 Sept. p. 106. Takeda, Kimihisa, 1963 Mar. p. 58. Takeda Lace Company, 1972 Dec. p. 47. Takemoto, Kenneth K., 1972 Jan. p. 31. Takeuchi, H., 1955 Sept. p. 58. Takpuk, 1954 Dec. p. 41. Talalay, Paul, 1958 Feb. p. 44. Talbot, Curtis, 1952 Jan. p. 18. Talbot, Gerald B., 1973 Mar. p. 93. Talbot, John. 1956 Feb. p. 116. Talbot, Mary, 1975 June p. 35,

Talbot, Nathan B., 1972 July p. 78. Talbot, Samuel A., 1948 Oct. p. 31. Talbot, William H. F., 1952 Nov. p. 30; 1966 May p. 104; Dec. p. 65. Talerico, Robert L., 1978 Mar. p. 93. Talleyrand, Charles M. de, 1968 June p. 54. Talmadge, Kenneth, 1975 Apr. p. 90. Talmage, David W., 1961 Jan. p. 64. Talmon, Shemaryahu, 1971 Nov. p. 73; 1973 Jan. p. 83; 1977 Jan. p. 100, 104. Talrose, V. Z., 1970 Nov. p. 69. Talwani, Manik, 1969 Sept. p. 130; 1972 May p. 63; 1977 Apr. p. 32. Talwar, G. P., 1965 June p. 42. Tam, Nguyen D., 1964 Aug. p. 23. Tamelen, Eugene E. van, 1974 Oct. p. 70, 75. Tamerlane, 1961 June p. 124, 133. Tamhane, A. S., 1969 June p. 36. Tamiya, H., 1953 Oct. p. 31, 32. Tamm, Igor Y., 1949 Nov. p. 27; 1951 Oct. p. 54; 1956 Aug. p. 29, 30, 33; 1958 Dec. p. 52; 1960 Jan. p. 72; 1967 Nov. p. 28. Tammann, Gustav A., 1972 Feb. p. 41; 1974 May p. 117; 1975 June p. 70; 1976 Mar. p. 77; Dec. p. 101. Tammaro, A., 1949 July p. 33. Tampieri, G., 1974 Jan. p. 82. Tamplin, Morgan, 1976 Aug. p. 35. Tan, P. T., 1963 Apr. p. 49. Tan, Y. H., 1974 July p. 42; 1977 Apr. p. 46. Tanaka, S., 1971 Jan. p. 88, 95. Tananbaum, Harvey D., 1975 Mar. p. 28. Tandler, Bernard, 1961 Sept. p. 76; 1962 Feb. p. 41. Tanenbaum, Morris, 1965 Apr. p. 70; Oct. p. 57; 1967 Mar. p. 115; 1970 Feb. p. 13. T'ang, F. F., 1964 Jan. p. 81. Tanganyika Department of Geological Survey, 1961 Oct. p. 119. Tanghe, Leo J., 1975 Mar. p. 99, 100. Tanner, J. M., 1970 Jan. p. 108. Tanner, Nancy, 1978 Apr. p. 100. Tanner, R. I., 1965 Nov. p. 54. Tanner, R. W., 1971 Dec. p. 84. Tanni, L., 1955 Sept. p. 170. Tannock, Ian F., 1976 May p. 71. Tansley, Katherine, 1966 Oct. p. 79. Tanzanian Gombe National Park, 1978 Apr. Tanzanian Serengeti National Park, 1971 July p. 86, 93; 1975 May p. 54-65. Tape, Gerald F., 1963 May p. 74; 1964 May p. 60. Tappan, Donald W., 1955 Dec. p. 68. Tappel, A. L., 1970 Aug. p. 82. Tapponnier, Paul, 1977 Apr. p. 30. Tarascon, 1972 Sept. p. 96. Tarba, Temur, 1973 Sept. p. 50. Tarde, Gabriel, 1955 Nov. p. 31. Tarkow, Harold, 1955 Oct. p. 50. Tarling, D. H., 1967 Feb. p. 51. Tarney, John, 1977 Mar. p. 102. Tarski, Alfred, 1962 Apr. p. 87, 90; 1964 Sept. p. 55; 1968 May p. 95; 1972 July p. 45. Tartaglia, Nicolò, 1960 Sept. p. 182; 1964 Sept. p. 45; 1976 Apr. p. 107, 108. Tarussov, B. N., 1955 Oct. p. 39. Tasaki, Ichiji, 1966 Mar. p. 78. Tashpulator, N., 1973 Dec. p. 44. Tasman, P., 1957 Oct. p. 64. Tate, John T., 1953 Mar. p. 74. Tatum, Edward L., 1948 Sept. p. 36; Nov. p. 47; 1956 July p. 113, 114; Aug. p. 49; Oct. p. 85; 1958 Nov. p. 38; Dec. p. 52; 1961 June p. 94; Sept. p. 77; 1962 Apr. p. 101; 1963 May p. 75; 1965 Feb. p. 72; 1966 Apr. p. 102; Nov. p. 65; 1967 May p. 81; Nov. p. 23; 1976 Sept. p. 51.

Taub, Irwin, 1967 Feb. p. 81. Tauber, Henrik, 1971 Oct. p. 68. Tauber, Stuart, 1970 Oct. p. 44. Tauc, Jan, 1968 Feb. p. 52. Tauc, Ladislav, 1967 May p. 46, 47; 1970 July p. 59, 61. Taussig, Helen, 1960 Feb. p. 79. Taussig, Helen A., 1950 Jan. p. 15, 16. Taussig, Helen B., 1962 Sept. p. 98. Tavara, Metoro, 1958 June p. 63, 64. Taver, K. J., 1965 Apr. p. 78. Tavkhelidze, A., 1976 Nov. p. 51. Tawney, R. H., 1950 Feb. p. 12; 1963 Sept. p. 55. Tax, Sol, 1951 Oct. p. 40. Tay, Warren, 1973 Aug. p. 88-90, 92, 94-97, Tayler, Robert J., 1974 May p. 108. Taylor, A. R., 1959 Feb. p. 88. Taylor, Barry N., 1966 May p. 30, 38; 1970 Oct. p. 62, 66; 1973 Dec. p. 55. Taylor, Bayard, 1969 Dec. p. 19. Taylor, C. Richard, 1970 Nov. p. 46; 1977 Aug. p. 82. Taylor, Carl E., 1970 July p. 106. Taylor, Cecil A., 1961 Sept. p. 155; 1964 Nov. Taylor, Charles V., 1950 Oct. p. 49. Taylor, D. Garth, 1978 June p. 42. Taylor, Donald J., 1969 Mar. p. 46; 1971 Jan. Taylor, Edwin W., 1961 Sept. p. 104. Taylor, Elizabeth, 1964 Sept. p. 51. Taylor, Ellison H., 1968 Oct. p. 45. Taylor, F. B., 1968 Apr. p. 53. Taylor, Frank B., 1969 Nov. p. 104. Taylor, Frederic W., 1974 May p. 115. Taylor, Frederick W., 1971 Oct. p. 96, 100-102. Taylor, Geoffrey I., 1955 July p. 80, 81; 1961 Oct. p. 107, 109; 1963 Aug. p. 72; 1964 Oct. p. 69; 1967 Sept. p. 87; 1968 Feb. p. 75, 79-82; Sept. p. 55; 1972 Apr. p. 48; 1975 Apr. p. 117. Taylor, Grant, 1962 May p. 80. Taylor, H. Dennis, 1976 Aug. p. 77, 78. Taylor, H. S., 1971 Dec. p. 50. Taylor, Harry W., 1950 July p. 28; 1961 Jan. p. 140. Taylor, Hugh S., 1950 Nov. p. 26. Taylor, Irving A., 1958 Feb. p. 44. Taylor, J. Herbert, 1957 Feb. p. 58; Sept. p. 189, 196; 1958 Nov. p. 56; 1960 Jan. p. 129; 1961 Sept. p. 104; 1963 July p. 60; Aug. p. 106. Taylor, Jack, 1971 Feb. p. 47. Taylor, Jean G., 1956 Mar. p. 34. Taylor, Jeanne, 1949 Dec. p. 57. Taylor, Joan, 1970 Mar. p. 64. Taylor, John B., 1965 May p. 67. Taylor, John W., 1953 Jan. p. 30. Taylor, Joseph H. Jr., 1975 Mar. p. 35 Taylor, P. N., 1977 Mar. p. 100. Taylor, Richard E., 1975 June p 52. Taylor, Richard M., 1955 Mar. p. 64 Taylor, Robert E., 1970 Apr p. 86 Taylor, Robert L., 1975 Feb. p. 17, 18 Taylor, Roger B., 1976 May p 33, 35, 38 Taylor, Stewart, 1974 Nov p 87 Taylor, T G., 1970 Mar p 89, Apr p 76 Taylor, T. L., 1956 Feb p 52 Taylor, Theodore B., 1975 Nov p 33, 1977 May Taylor, Thomas H., 1977 Dec. p. 116, 117 Taylor Winery, 1964 Aug. p. 51, 52, 54 Taylor-Robinson, C. H., 1966 July, p. 37 Taziell, Haroun, 1970 Feb p 32 Tehnikovkey, Peter I, 1952 June p 26 Tchaikovsky, Peter I. 1970 July p. 57 Tchernia, M. P., 1951 Aug. p. 26 Teague, Ohn E. 1931 Sept p 11, 1776 Age

T'so, Paul O P, 1958 Oct p 42 Toban, Y N, 1975 Aug p 58 Tobias, C A., 1959 Sept p 96 Tobias, J V, 1973 Oct p 101, 102 Tobias, Philip, 1967 Apr p 65 Tobler, Heinz, 1968 Nov p 113, 118 Tobolsky, Arthur V, 1957 Sept p 121, 1959 Apr p 126 Tocchini-Valentini, Glauco P, 1964 May p 56 Tocqueville, Alexis de, 1961 Dec p 45 Todaro, George J, 1967 Apr p 30, 1972 Jan p 30, 1974 Feb p 36, 1978 Apr p 69 Todd, Alexander, Sir, 1955 Sept p 76, 1957 Dec p 60, 1967 Nov p 28 Todd, David P, 1964 Nov p 108 Todd, Dennis, 1972 Dec p 99 Todd, John H, 1971 May p 99 Todd, Neil B, 1977 Nov p 100 Todd, Tweedy J, 1958 Oct p 84 Todd, W R, 1972 July p 56 Toepler, A, 1951 Dec p 49 Toevs, Lois, 1971 Feb p 71 Toft, David O, 1976 Feb p 36 Toikka, William, 1974 Nov p 54 Toksoz, M Nafil, 1975 Nov p 89, 93 Tokushima University, 1964 Jan p 82 Tokyo Shibaura Electric Company, 1970 Mar p 37 Tokyo University Hospital, 1977 July p 44 Tolansky, Samuel, 1954 Aug p 54, 1969 Sept p 88, 1972 Oct p 82, 1974 Aug p 67 Toledo, Jose, 1973 Aug p 46 Tollmien, Walter, 1954 Aug p 75, 76 Tolmach, L J, 1953 Nov p 82 Tolman, Edward C, 1963 Oct p 117, 121, 122, 1977 June p 82 Tolman, R. C., 1967 June p 36 Tolstoy, Ivan, 1961 Dec p 60 Tolstoy, Leo N, 1973 Sept p 57 Tom Thumb, see Stratton, Charles S Tomasko, Martin, 1975 Sept p 132 Tombaugh, Clyde W, 1959 Apr p 88, 98, 1965 Sept p 77, 1966 Apr p 67, 1975 Sept p 131 Tombrello, Thomas A, 1969 July p 36 Tometsko, Andrew M, 1963 Dec p 72, 1966 Apr p 50 Tomita, Tsuneo, 1964 Dec p 56 Tomiyasu, Uwamie, 1969 Sept p 98 Tomkins, Gordon M., 1973 June p. 87, 1976 Tomlinson, R. V, 1966 Feb p 33 Tomonaga, Sin-Itiro, 1965 Dec p 39, 1968 Jan p 74, 1974 July p 53 Tomonaga, Sinitiro, 1978 Feb p 132 Tomonage Sin-Itiro, 1957 Sept p 107, 1967 Nov p 28, 1973 Oct p 108 Tompkins, E. S., 1973 Mar p 87 Tompkins Edwin H, 1963 July p 74 Tompsett D H, 1973 Apr p 80 Tompsett, Ralph, 1949 Aug. p 31, 1952 Apr p 53 Tompson, Γ W , 1959 Aug p 120 Toms, Bryan A, 1970 Oct p 60 Tondo Casemiro V 1963 Nov p 115 Tondvry, Gian, 1958 Dec p 40 Tong, Winton, 1966 Feb p 84 Tonks, Lewi, 1950 Oct p 39 Toolan, Helene W 1953 July p 46, 1958 Apr p 52 Toole, Lben H. 1960 Dec p 59 Toon, O Brian, 1978 Mar p 77 Toon, Owen B 1975 Sept p 117, 29 Toong, Hoo-Min D, 1977 Sept p 91, 146, 153 Tepchies, A. V., 1957 Sept. p. 107, 1958 Dec p 53 Topke, Manfred, 1959 Mar. p. 102. Topper, Yale J., 1969 July p. 64

Topplick, Thomas G, 1971 Jan p 38 Topsell, Edward, 1954 Aug p 67 Toran Allerand, Dominique, 1976 July p 56 Torda, T Paul, 1966 June p 87 Torgerson, Richard, 1972 Nov p 76 Torquato, 1973 Apr p 87, 88 Torres, Llorens, 1966 Oct p 25 Torres y Quevedo, L, see Quevedo, L Torres y Torrey, E Fuller, 1975 Feb p 17, 18 Torrey, H C, 1948 Sept p 22 Torrey, John, 1956 Dec p 83, 84, 1977 May p 101 Torrey, John G, 1966 Jan p 78 Torrey, Marjone, 1969 Apr p 37 Torricelli, Evangelista, 1950 May p 20, 24, 1951 Dec p 66, 1962 Mar p 78, 1964 Jan p 100, 1965 May p 58, 1967 Aug p 97, 99 Toscanini, Arturo, 1974 Nov p 87, 95 Tosi, J A, 1971 Apr p 36 Totala, 1963 Dec p 116 Totten, Roger, 1978 June p 84 Toulmin, Priestley III, 1978 Mar p 85 Toulmin, Stephen, 1964 June p 105 Tourara, Metoro, 1949 Feb p 53 Touroff, Arthur S W, 1950 Jan p 15 Tours, Jacques J M de, 1969 Dec p 24 Tourtellotte, Mark E., 1967 Feb p 43 Touschek, Bruno, 1966 Nov p 112 Tousey, Richard, 1959 June p 54-56, 1969 June p 94, 1973 Oct p 72 Touster, Oscar, 1957 Feb p 60 Tovey, Donald, 1972 Sept p 38 Tower, Beauchamp, 1966 Mar p 63, 65, 1975 July p 52 Towers, Shoma H, 1968 Nov p 50 Townes, Charles H, 1948 Sept p 18, 19, 1957 Feb p 78, 1958 June p 46, Dec p 42, 1960 Mar p 84, 1961 May p 61, June p 55, 56, 1963 July p 34, 37, 42, 1964 Apr p 49, Aug p 40, Dec p 60, 1965 May p 70, 72, 74, July p 28, 1966 Jan p 21, 1967 June p 82, Nov p 28, 30, 31, 1968 Sept p 131, 132, 1969 Feb p 42, Apr p 50, 1971 May p 50, 1973 Mar p 53, 1977 Dec p 86, 1978 June p 90 Townsend, C O, 1952 June p 66 Townsend, Jonathan, 1957 June p 76, 1958 Aug p 66 Townsend, Paul, 1978 Feb p 141 Toynbee, Arnold, 1963 Aug. p 55, Sept p 56, 1977 Jan p 49 Toyo Kogyo of Japan, 1972 Aug p 16, 23 Toyoda, Jun-1chi, 1972 June p 96 Trabacchi, Guilio, 1953 Oct p 51 Tracy, A S, 1955 Aug p 34 Tracy, Diane M, 1973 June p 76 Trader, C D, 1963 Nov p 114, 115 Trafton, Laurence M, 1975 Sept p 134 Trager, William L, 1960 May p 163 Traherne, Thomas, 1977 June p 126, 129 Train, Russell E., 1972 Aug. p 43 Trainin, Nathan, 1964 July p 69 Trajan, Emperor, 1954 Nov p 62, 1956 Apr p 45, 1963 Oct p 97, 102, 1973 Oct p 36, 1978 May p 157 Trams, Eberhard G, 1973 Aug. p 90 Trans World Airlines, 1957 Apr p 143 Trans Canada Airlines, 1953 June p 54 Trapeznikov, Vadim A., 1969 June p. 20, 21 Trask, D. W., 1963 July p. 84 Trask, Newell J Jr., 1975 Sept p 67 Traub, Ench. 1954 Nov p 75 Traub, Peter, 1968 Nov p 56, 1969 Oct p 32, 1976 Oct p 49 Traub, W., 1961 June p. 140 Traub, Wesley A., 1974 May p. 112, 115, 1975 Trauble Hermann, 1971 Mar p 75, 1972 Apr

p 89 Trauger, John T, 1974 May p 115 Traut, Robert R., 1976 Oct p 44 Trautwine, John C, 1971 Oct p 101 Travelers Insurance Company, 1967 Aug p 23 Travers, Andrew, 1970 June p 44 Travers, Morris W, 1964 May p 66 Travers, William M, 1966 Oct p 64 Traverse, Alfred, 1978 May p 58 Travis, Dorothy, 1950 Oct p 28 Treanor, Patrick J, Father, 1963 Feb p 50 Treat, Asher E, 1957 Dec p 66, 1965 Apr p 94 Trebst, Achim V, 1960 Nov p 105, 1969 Dec p 69 Trefethen, Lloyd M, 1965 Nov p 54 Trefil, James S, 1971 July p 101, 1973 Nov p 43 Treibs, Alfred, 1967 Jan p 32, 41 Treiman, Donald, 1971 Dec p 14 Treiman, Donald J, 1978 June p 43 Treiman, Sam B, 1961 Nov p 55, 1962 June p 80, 1976 Jan p 53 Treisman, Anne M, 1962 Apr p 151 Treitschke, Heinrich von, 1963 Sept p 57 Trembley, Abraham, 1955 Oct p 100, 1957 Dec p 118, 119, 1974 Dec p 44, 46 Trench, Robert K., 1974 Dec p 68 Trent, H M, 1959 Feb p 68 Trentin, John J, 1962 May p 80, 1974 Nov p 61 Tresca, Henri E, 1959 Dec p 122 Trescher, John, 1972 Apr p 82 Trethewie, E R., 1963 Nov p 106 Treub, Melchior, 1949 Sept p 52 Treusch, C, 1960 Jan p 114, 117 Trevarthen, Colwijn B, 1961 Aug p 68, 1964 Jan p 49 Trever, J C, 1971 Nov p 73 Treveris, Peter, 1965 June p 111 Trevithick, Richard, 1964 Jan p 107, 1969 Apr p 104, 1972 May p 102 Trevorrow, Virginia, 1953 Oct p 73 Trexler, James H, 1960 Jan p 47, 50 Trexler, P C, 1964 July p 78 Triad Oil Company, 1966 Sept p 193 Tribe, Laurence H, 1970 Feb p 13 Triborough Bridge and Tunnel Authority, 1965 Sept p 144, 145, 174 Tribus, Myron, 1971 Sept p 179, 180 Tricker, R. A R., 1974 July p 60 Triewald, Maarten, 1964 Jan p 98, 99, 101, 103 Trigg, George L, 1965 May p 50 Trilling, George H, 1975 June p 54, 56 Trimalchio, 1949 June p 41 Trimble, Virginia, 1974 Dec p 36, 38 Tring Museum, 1965 Dec p 51 Tringham, Ruth, 1977 Nov p 110 Trinkhaus, J. P., 1970 May p. 84 Triplett, Glover B Jr., 1975 Nov p 60, 1977 Jan p 28 Implett, R. F., 1974 Nov p 63 Trismegistus, Hermes, 1973 Apr p 89, 91 Trithemius, Johannes, 1966 July p 41 Trivedi, Vishnuprasad C., 1975 Apr. p. 22 Trivelli, A. P. H., 1952 Nov. p. 32 Trocls-Smith, Jorgen, 1956 Mar p 37, 38, 41 Troitsky, V S, 1956 Jan p 46 Trombe, Felix, 1950 Aug. p 21 Tronchin, Theodore, 1976 Jan p 115 Tronick, E., 1971 Oct. p 32 Tropfke, Johannes, 1949 Jan p 45 Tropical Metabolism Research Unit, 1976 Sept p 54 Fropical Radio Telegraph Company, 1961 Sept p 54 Tropsch, Franz, 1949 Dec. p. 36, 35, 39

Thomas, S., 1973 June p. 60.

Thomas, Sidney G., 1968 Apr. p. 24.

Thomas, Steven, 1971 Dec. p. 74.

Thomas, Stanley L., 1977 Dec. p. 141.

Thomas, Trevor, 1966 Mar. p. 58. Thomas Y. Crowell Company, 1952 Jan. p. 64, Thomer, G., 1962 May p. 104. Thompson, A., 1969 Feb. p. 53; June p. 38. Thompson, A. R., 1971 Nov. p. 33. Thompson, Benjamin, 1954 Sept. p. 60; 1956 May p. 85; 1958 Apr. p. 56; 1960 June p. 108, 110; Oct. p., 158-168; 1968 Jan. p. 116; 1969 Aug. p. 111. Thompson, Brian J., 1965 June p. 35; 1968 Feb. p. 43; Sept. p. 54, 58. Thompson, C. G., 1956 Aug. p. 99, 100. Thompson, D. B., 1965 July p. 65. Thompson, D'Arcy W., 1951 Mar. p. 43; 1952 Aug. p. 24, 60-64, 66; 1962 Mar. p. 119; 1969 Mar. p. 22; 1976 Apr. p. 83; July p. 92, 93; 1977 Aug. p. 98; 1978 June p. 106, 109-112. Thompson, E. O. P., 1955 Aug. p. 49; 1956 Mar. p. 42; 1957 Sept. p. 173; 1968 Mar. p. 70. Thompson, E. W., 1968 June p. 107. Thompson, Eric, Sir, 1977 Mar. p. 117. Thompson, George P., 1965 May p. 63. Thompson, George, Sir, 1965 Mar. p. 32. Thompson, Gertrude C., 1969 Dec. p. 36. Thompson, Guy A. Jr., 1975 Oct. p. 33. Thompson, Henry, 1968 Dec. p. 108. Thompson, J. Eric S., 1975 Oct. p. 74, 76. Thompson, J. J., 1958 Sept. p. 63; 1963 July p. 110; 1965 May p. 58. Thompson, K., 1969 Dec. p. 28. Thompson, L. S., 1969 Dec. p. 25. Thompson, M. J., 1965 July p. 48. Thompson, Margaret, 1954 Dec. p. 48. Thompson, Michael W., 1968 Mar. p. 93, 96. Thompson, Richard F., 1970 July p. 63, 64. Thompson, Robert, 1963 Feb. p. 55, 57; 1973 Nov. p. 60. Thompson, Silvanus, 1969 Mar. p. 104. Thompson, Stanley G., 1950 Mar. p. 28; Apr. p. 47; May p. 27; 1955 July p. 52; 1956 Dec. p. 67; 1958 Nov. p. 53; 1965 Aug. p. 50. Thompson, Sylvanus, 1949 Dec. p. 52. Thompson, T. J., 1971 Oct. p. 15 Thompson, W. L., 1959 Jan. p. 123. Thompson, William, 1977 Aug. p. 60, 73. Thompson, William B., 1953 June p. 78, 79 Thompson, William R., 1960 Sept. p. 204; 1961 Feb. p. 41. Thompson, William, Sir, 1964 Nov. p. 110, 111, Thompson-Ramo-Wooldridge Corporation, 1965 Nov. p. 44, 46. Thomsen, Christian J., 1959 Nov. p. 170; 1971 Oct. p. 63. Thomsen, John S., 1970 Oct. p. 69. Thomsen, Thomas, 1969 Mar. p. 35. Thomson, Charles W., 1953 May p. 88, 90, 94; 1957 Nov. p. 50. Thomson, E. O. P., 1961 Feb. p. 81. Thomson, Elihu, 1969 Mar. p. 104. Thomson, George P., Sir, 1948 May p. 53; 1949 Nov. p. 41; 1952 Feb. p. 34; 1956 July p. 57; Oct. p. 49; 1967 Nov. p. 27. Thomson, Godfrey, Sir, 1951 June p. 32. Thomson, Joseph J., Sir, 1948 June p. 27, 28; Aug. p. 38; 1949 Nov. p. 43; Dec. p. 13; 1950 May p. 21, 22; Sept. p. 29; Oct. p. 31, 32, 33; 1952 Dec. p. 41; 1953 Jan. p. 51; Mar. p. 69, 74; Apr. p. 33; 1956 Nov. p. 94, 96, 104; 1957 Dec. p. 106; 1959 Sept. p. 74; 1964 Dec. p. 64; 1966 Aug. p. 89, 92-94; 1967 May p. 129; Sept. p. 195; Nov. p. 26; 1969 Mar. p. 109; 1971 May p. 86; 1974 Feb. p. 81; Mar. p. 92, 542

95, 99, 100. Thomson, R. W., 1973 Mar. p. 87. Thomson, Thomas, 1964 Mar. p. 105. Thomson, William, 1949 Feb. p. 50, 54; June p. 31, 33; 1950 Dec. p. 56; 1951 May p. 54, 56-58; Sept. p. 46; 1952 Sept. p. 59; 1953 Feb. p. 78; Nov. p. 93, 96; 1954 Jan. p. 62; Sept. p. 61; 1955 Mar. p. 52; 1956 Nov. p. 94; 1957 May p. 42; 1958 Mar. p. 96, 102; Apr. p. 56; 1959 Apr. p. 43; Nov. p. 103; Dec. p. 130, 131; 1960 Jan. p. 112; 1962 May p. 103; July p. 52; Dec. p. 51; 1966 Aug. p. 92-94; 1967 Sept. p. 181; Nov. p. 104, 105; 1968 June p. 54, 61; 1969 Aug. p. 116; 1970 May p. 120; July p. 19; 1971 Dec. p. 49, 80, 81; 1975 Dec. p. 60; 1977 Aug. p. 60, 83. Thomy, André, 1973 May p. 34, 36. Thor, Don, 1977 May p. 113. Thoreau, Henry D., 1948 Sept. p. 16; 1949 Oct. p. 31; 1953 Dec. p. 31; 1959 Feb. p. 74, 84. Thoreau, W., 1948 June p. 52. Thorn, George, 1953 Apr. p. 45; 1959 Oct. p. 58. Thorndike, A. M., 1953 Sept. p. 80. Thorndike, Edward L., 1950 Sept. p. 79; 1955 Nov. p. 32; 1957 June p. 150; 1963 Mar. p. 96; Apr. p. 118; 1965 Jan. p. 99, 100. Thorne, A. G., 1972 Oct. p. 48. Thorne, H. M., 1966 Feb. p. 24. Thorne, Kip S., 1968 Apr. p. 42; 1971 Jan. p. 54; 1974 Dec. p. 34, 36; 1975 Mar. p. 24; Nov. p. 60; 1977 Jan. p. 34. Thornthwaite, C. Warren, 1964 Oct. p. 76. Thornton, Douglas D., 1969 Feb. p. 42; Apr. p. 50; 1973 Mar. p. 53. Thorp, Edward, 1961 Apr. p. 84. Thorpe, Herbert A., 1967 June p. 26. Thorpe, Lyle M., 1970 May p. 44. Thorpe, S. A., 1973 Feb. p. 72, 73. Thorpe, T. E., 1954 Oct. p. 72. Thorpe, W. H., 1949 Sept. p. 30; 1959 Nov. p. 128, 130; 1962 Apr. p. 78; 1964 Oct. p. 115; 1970 Aug. p. 87; 1972 Sept. p. 55. Thorson, Gunnar, 1972 Nov. p. 59, 60. Thorsrud, Einar, 1975 Mar. p. 18. Thorsteinson, A. J., 1967 June p. 108. Thouless, Robert, 1974 Jan. p. 82. Thovert, J., 1951 Dec. p. 49. Thrall, Robert M., 1971 Nov. p. 48. Throckmorton, Peter, 1971 Aug. p. 23. Thucydides, 1954 Nov. p. 99; 1958 May p. 112; 1963 Dec. p. 110; 1964 Feb. p. 117; 1973 Oct. Thudichum, J. W. L., 1965 Oct. p. 84. Thun, R., 1973 Nov. p. 42. Thunberg, Torsten, 1958 July p. 57, 58. Thurber, James, 1956 Feb. p. 34. Thürkauf, M., 1966 Dec. p. 126. Thurlow, John, 1952 May p. 55. Thurmond, Strom, 1972 Nov. p. 16. Thurston, Robert H., 1975 July p. 50. Thurstone, L. L., 1950 June p. 29; 1951 July p. 29; 1963 Mar. p. 96; 1968 Dec. p. 88; 1970 Mar. p. 72. Thut, H. F., 1952 Oct. p. 82. Thutmose, 1963 Nov. p. 123. Thuwybum, 1969 Dec. p. 45. Ti, Ch'in Shih Huang Ti, 1975 Sept. p. 54. Tibals, Cam, 1965 Dec. p. 81. Tibbitts, Clark, 1954 Feb. p. 46. Tibiloz, A., 1973 Feb. p. 89. Tice, Lois, 1965 June p. 86. Tichener, E. B., 1960 Feb. p. 49. Ticho, Harold K., 1963 Jan. p. 40. Tickell, W. L. N., 1970 Nov. p. 84. Tidewater Pipeline Company, 1967 Jan. p. 62. Tieghem, M. van, 1949 June p. 44. Tietz, A., 1960 Feb. p. 49.

Tietze, Christopher, 1963 Sept. p. 67; 1972 July p. 51; 1973 Mar. p. 45; 1977 Jan. p. 21, 27. Tiffany, L. H., 1963 Feb. p. 86. Tighe, N. J., 1967 Sept. p. 118. Tight, William G., 1952 June p. 74. Tikhonov, A. N., 1972 Jan. p. 74. Tilak, Manohar A., 1966 Apr. p. 50. Tilden, Samuel J., 1976 June p. 21. Tilden, W. A., 1956 Nov. p. 75, 76. Tiling, Reinhold, 1949 May p. 33. Till, James E., 1974 Nov. p. 61. Till, P. H., 1964 Nov. p. 84. Tiller, William A., 1967 Feb. p. 86, 88. Tillett, William S., 1949 Dec. p. 29; 1952 Apr. Tillich, Paul, 1958 May p. 82. Tillman, Coyt, 1966 Sept. p. 177. Tillotson, L. C., 1970 Dec. p. 41. Tilney, Lewis G., 1971 Oct. p. 77; 1977 Nov. p. 138; 1978 May p. 145. Tilton, George, 1954 Jan. p. 42. Timaeus, 1959 Dec. p. 63. Time Inc., 1971 Oct. p. 15. Timiras, Paola S., 1970 Feb. p. 56. Timocharis, 1961 Feb. p. 125. Timofeeff-Ressovsky, N. W., 1950 Jan. p. 33, 36, 37. Timofiev, B. V., 1962 Sept. p. 169. Timonen, S., 1951 Oct. p. 34. Timoni, Emanuel, 1976 Jan. p. 112, 115. Timosthenes, 1973 Oct. p. 41. Timostratos, 1973 Oct. p. 41. Tinbergen, Jan, 1969 Dec. p. 48; 1973 Dec. p. 50. Tinbergen, Lukas, 1975 Aug. p. 58. Tinbergen, Nikolaas, 1954 Jan. p. 51; Nov. p. 42, 44; 1957 Oct. p. 48; 1958 Dec. p. 70, 71, 72; 1960 Sept. p. 88; Dec. p. 118; 1961 May p. 67; 1963 Apr. p. 147; 1969 Dec. p. 103, 104; 1973 Dec. p. 50. Tinch, Robert, 1951 Sept. p. 54; 1954 Feb. p. 62. Tinctoris, Johannes, 1967 Dec. p. 97. Tindale, Norman B., 1966 Mar. p. 86, 88, 90. Tindbergen, Niko, 1959 Mar. p. 50. Ting, Samuel C. C., 1975 Jan. p. 48; June p. 54, 58, 59; Oct. p. 47; 1976 Dec. p. 50; 1977 Oct. p. 59; 1978 Mar. p. 50. Tingsten, Herbert L. G., 1950 Nov. p. 11. Tinkham, Michael, 1973 Oct. p. 23. Tinoco, Ignacio, 1962 Mar. p. 64. Tinsley, Beatrice M., 1975 Dec. p. 50. Tintoretto, Il., 1952 July p. 25; 1977 June p. 122. Tiro, 1949 June p. 41. Tiselius, Arne W. K., 1951 Jan. p. 21; Mar. p. 41; Dec. p. 46, 47, 49, 51-53; 1957 July p. 93; 1960 Mar. p. 131, 133; 1963 July p. 50; 1967 Nov. p. 27. Tishler, Max, 1955 Jan. p. 59. Tissandier, Gaston, 1952 Jan. p. 70; 1955 Dec. p. 65, 59; 1974 July p. 60. Tissières, Alfred, 1963 Mar. p. 83, 85; 1969 Oct. p. 28. Tisza, Laszlo, 1949 June p. 36, 37; 1950 Apr. p. 33; 1958 June p. 32, 34; 1970 May p. 99 Titchener, Edward B., 1950 Sept. p. 79, 80; 1961 Feb. p. 47. Titian, 1948 May p. 25, 30; June p. 43; 1956 Jan. p.: 1967 Dec. p. 97. Titius, J. D., 1965 Apr. p. 110. Titius, Johann, 1977 July p. 128. Titov, Gherman, 1962 Feb. p. 70. Titus, 1965 July p. 84, 91. Titus Livius, see: Livy Tizard, Henry, Sir, 1966 Aug. p. 92. Tjio, J. H., 1959 Sept. p. 222; 1960 Apr. p. 148; Sept. p. 207; 1961 Nov. p. 69; 1963 July p. 55; 1964 May p. 90.

T'so, Paul O. P., 1958 Oct. p. 42. Tobari, Y. N., 1975 Aug. p. 58. Tobias, C. A., 1959 Sept. p. 96. Tobias, J. V., 1973 Oct. p. 101, 102. Tobias, Philip, 1967 Apr. p. 65. Tobler, Heinz, 1968 Nov. p. 113, 118. Tobolsky, Arthur V., 1957 Sept. p. 121; 1959 Apr. p. 126. Tocchini-Valentini, Glauco P., 1964 May p. 56. Tocqueville, Alexis de, 1961 Dec. p. 45 Todaro, George J., 1967 Apr. p. 30; 1972 Jan. p. 30; 1974 Feb. p. 36; 1978 Apr. p. 69. Todd, Alexander, Sir, 1955 Sept. p. 76; 1957 Dec. p. 60; 1967 Nov. p. 28. Todd, David P., 1964 Nov. p. 108. Todd, Dennis, 1972 Dec. p. 99. Todd, John H., 1971 May p. 99. Todd, Neil B., 1977 Nov. p. 100. Todd, Tweedy J, 1958 Oct. p. 84. Todd, W. R., 1972 July p. 56. Toepler, A., 1951 Dec. p. 49. Toevs, Lois, 1971 Feb. p. 71. Toft, David O., 1976 Feb. p. 36. Toikka, William, 1974 Nov. p. 54. Toksöz, M. Nafil, 1975 Nov. p. 89, 93. Tokushima University, 1964 Jan. p. 82 Tokyo Shibaura Electric Company, 1970 Mar. Tokyo University Hospital, 1977 July p. 44. Tolansky, Samuel, 1954 Aug. p. 54; 1969 Sept. p. 88; 1972 Oct. p. 82; 1974 Aug. p. 67. Toledo, José, 1973 Aug. p. 46. Tollmien, Walter, 1954 Aug. p. 75, 76. Tolmach, L. J., 1953 Nov. p. 82. Tolman, Edward C., 1963 Oct. p. 117, 121, 122; 1977 June p. 82. Tolman, R. C., 1967 June p. 36. Tolstoy, Ivan, 1961 Dec. p. 60. Tolstoy, Leo N., 1973 Sept. p. 57. Tom Thumb, see: Stratton, Charles S.. Tomasko, Martin, 1975 Sept. p. 132. Tombaugh, Clyde W., 1959 Apr. p. 88, 98; 1965 Sept. p. 77; 1966 Apr. p. 67; 1975 Sept. p. 131. Tombrello, Thomas A., 1969 July p. 36. Tometsko, Andrew M., 1963 Dec. p. 72; 1966 Apr. p. 50. Tomita, Tsuneo, 1964 Dec. p. 56. Tomiyasu, Uwamie, 1969 Sept. p. 98. Tomkins, Gordon M., 1973 June p. 87; 1976 Feb. p. 38. Tomlinson, R. V., 1966 Feb. p. 33. Tomonaga, Sin-Itiro, 1965 Dec. p. 39; 1968 Jan. p. 74; 1974 July p. 53. Tomonaga, Sinitiro, 1978 Feb. p. 132. Tomonage, Sin-Itiro, 1957 Sept. p. 107; 1967 Nov. p. 28; 1973 Oct. p. 108. Tompkins, E. S., 1973 Mar. p. 87. Tompkins, Edwin H., 1963 July p. 74. Tompsett, D. H., 1973 Apr. p. 80. Tompsett, Ralph, 1949 Aug. p. 31; 1952 Apr. Tompson, F. W., 1959 Aug. p. 120. Toms, Bryan A., 1970 Oct. p. 60. Tondo, Casemiro V., 1963 Nov. p. 115. Tondyry, Gian, 1958 Dec. p. 40. Tong, Winton, 1966 Feb. p. 84. Tonks, Lewi, 1950 Oct. p. 39. Toolan, Helene W., 1953 July p. 46; 1958 Apr. p 52. Toole, Eben H., 1960 Dec. p. 59. Toon, O. Bnan, 1978 Mar. p. 77, Toon, Owen B., 1975 Sept. p. 117, 29. Toong, Hoo-Min D., 1977 Sept. p. 91, 146, 153. Topchiev, A. V., 1957 Sept. p. 107; 1958 Dec. Topke, Manfred, 1959 Mar. p. 102. Topper, Yale J., 1969 July p. 64,

Topplick, Thomas G., 1971 Jan. p. 38. Topsell, Edward, 1954 Aug. p. 67. Toran-Allerand, Dominique, 1976 July p. 56. Torda, T. Paul, 1966 June p. 87. Torgerson, Richard, 1972 Nov. p. 76. Torquato, 1973 Apr. p. 87, 88. Torres, Llorens, 1966 Oct. p. 25. Torres y Quevedo, L., see: Quevedo, L. Torres y. Torrey, E. Fuller, 1975 Feb. p. 17, 18. Torrey, H. C., 1948 Sept. p. 22. Torrey, John, 1956 Dec. p. 83, 84; 1977 May p. 101. Torrey, John G., 1966 Jan. p. 78. Torrey, Marjorie, 1969 Apr. p. 37. Torricelli, Evangelista, 1950 May p. 20, 24; 1951 Dec. p. 66; 1962 Mar. p. 78; 1964 Jan. p. 100; 1965 May p. 58; 1967 Aug p. 97, 99. Toscanini, Arturo, 1974 Nov. p. 87, 95. Tosi, J. A., 1971 Apr. p. 36. Totila, 1963 Dec. p. 116. Totten, Roger, 1978 June p. 84. Toulmin, Priestley III, 1978 Mar. p. 85. Toulmin, Stephen, 1964 June p. 105. Tourara, Metoro, 1949 Feb. p. 53. Touroff, Arthur S. W., 1950 Jan. p. 15. Tours, Jacques J. M. de, 1969 Dec. p. 24. Tourtellotte, Mark E., 1967 Feb. p. 43. Touschek, Bruno, 1966 Nov. p. 112. Tousey, Richard, 1959 June p. 54-56; 1969 June p. 94; 1973 Oct. p. 72. Touster, Oscar, 1957 Feb. p. 60. Tovey, Donald, 1972 Sept. p. 38. Tower, Beauchamp, 1966 Mar. p. 63, 65; 1975 July p. 52. Towers, Shoma H., 1968 Nov. p. 50. Townes, Charles H., 1948 Sept. p. 18, 19; 1957 Feb. p. 78; 1958 June p. 46; Dec. p. 42; 1960 Mar. p. 84; 1961 May p. 61; June p. 55, 56; 1963 July p. 34, 37, 42; 1964 Apr. p. 49; Aug. p. 40; Dec. p. 60; 1965 May p. 70, 72, 74; July p. 28; 1966 Jan. p. 21; 1967 June p. 82; Nov. p. 28, 30, 31; 1968 Sept. p. 131, 132; 1969 Feb. p. 42; Apr. p. 50; 1971 May p. 50; 1973 Mar. p. 53; 1977 Dec. p. 86; 1978 June p. 90. Townsend, C. O., 1952 June p. 66. Townsend, Jonathan, 1957 June p. 76; 1958 Aug. p. 66. Townsend, Paul, 1978 Feb. p. 141. Toynbee, Arnold, 1963 Aug. p. 55; Sept. p. 56; 1977 Jan. p. 49. Toyo Kogyo of Japan, 1972 Aug. p. 16, 23. Toyoda, Jun-ichi, 1972 June p. 96. Trabacchi, Guilio, 1953 Oct. p. 51. Tracy, A. S., 1955 Aug. p. 34. Tracy, Diane M., 1973 June p. 76. Trader, C. D., 1963 Nov. p. 114, 115. Trafton, Laurence M., 1975 Sept. p. 134. Trager, William L., 1960 May p. 163. Traherne, Thomas, 1977 June p. 126, 129. Train, Russell E., 1972 Aug. p. 43. Trainin, Nathan, 1964 July p. 69. Trajan, Emperor, 1954 Nov. p. 62; 1956 Apr. p. 45; 1963 Oct. p. 97, 102; 1973 Oct. p. 36; 1978 May p. 157. Trams, Eberhard G., 1973 Aug. p. 90. Trans World Airlines, 1957 Apr. p. 143. Trans-Canada Airlines, 1953 June p. 54 Trapeznikov, Vadim A., 1969 June p. 20, 21. Trask, D. W., 1963 July p. 84. Trask, Newell J. Jr., 1975 Sept. p. 67. Traub, Erich, 1954 Nov. p. 75. Traub, Peter, 1968 Nov. p. 56; 1969 Oct. p. 32; 1976 Oct. p. 49. Traub, W., 1961 June p. 146, Traub, Wesley A., 1974 May p. 112, 115; 1975 Sept. p. 73. Trauble, Hermann, 1971 Mar. p. 75; 1972 Apr.

p. 89. Trauger, John T., 1974 May p. 115. Traut, Robert R., 1976 Oct. p. 44. Trautwine, John C., 1971 Oct. p. 101. Travelers Insurance Company, 1967 Aug. p. 23. Travers, Andrew, 1970 June p. 44. Travers, Morris W., 1964 May p. 66. Travers, William M., 1966 Oct. p. 64. Traverse, Alfred, 1978 May p. 58. Travis, Dorothy, 1950 Oct. p. 28. Treanor, Patrick J., Father, 1963 Feb. p. 50. Treat, Asher E., 1957 Dec. p. 66; 1965 Apr. p. 94. Trebst, Achim V., 1960 Nov. p. 105; 1969 Dec. p. 69. Trefethen, Lloyd M., 1965 Nov. p. 54. Trefil, James S., 1971 July p. 101; 1973 Nov. Treibs, Alfred, 1967 Jan. p. 32, 41. Treiman, Donald, 1971 Dec. p. 14. Treiman, Donald J., 1978 June p. 43. Treiman, Sam B., 1961 Nov. p. 55; 1962 June p. 80; 1976 Jan. p. 53. Treisman, Anne M., 1962 Apr. p. 151. Treitschke, Heinrich von, 1963 Sept. p. 57. Trembley, Abraham, 1955 Oct. p. 100; 1957 Dec. p. 118, 119; 1974 Dec. p. 44, 46. Trench, Robert K., 1974 Dec. p. 68. Trent, H. M., 1959 Feb. p. 68. Trentin, John J., 1962 May p. 80; 1974 Nov. p. 61. Tresca, Henri E., 1959 Dec. p. 122. Trescher, John, 1972 Apr. p. 82. Trethewie, E. R., 1963 Nov. p. 106. Treub, Melchior, 1949 Sept. p. 52. Treusch, C., 1960 Jan. p. 114, 117. Trevarthen, Colwijn B., 1961 Aug. p. 68; 1964 Jan. p. 49. Trever, J. C., 1971 Nov. p. 73. Treveris, Peter, 1965 June p. 111. Trevithick, Richard, 1964 Jan. p. 107; 1969 Apr. p. 104; 1972 May p. 102. Trevorrow, Virginia, 1953 Oct. p. 73. Trexler, James H., 1960 Jan. p. 47, 50. Trexler, P. C., 1964 July p. 78. Triad Oil Company, 1966 Sept. p. 193. Tribe, Laurence H., 1970 Feb. p. 13. Triborough Bridge and Tunnel Authority, 1965 Sept. p. 144, 145, 174. Tribus, Myron, 1971 Sept. p. 179, 180. Tricker, R. A. R., 1974 July p. 60. Triewald, Maarten, 1964 Jan. p. 98, 99, 101, 103. Trigg, George L., 1965 May p. 50. Trilling, George H., 1975 June p. 54, 56. Trimalchio, 1949 June p. 41. Trimble, Virginia, 1974 Dec. p. 36, 38. Tring Museum, 1965 Dec. p. 51. Tringham, Ruth, 1977 Nov. p. 110. Trinkhaus, J. P., 1970 May p. 84. Triplett, Glover B. Jr., 1975 Nov. p. 60; 1977 Jan. p. 28. Triplett, R. F., 1974 Nov. p. 63. Trismegistus, Hermes, 1973 Apr. p. 89, 91. Trithemius, Johannes, 1966 July p. 41. Trivedi, Vishnuprasad C., 1975 Apr. p. 22. Trivelli, A. P. H., 1952 Nov. p. 32. Troels-Smith, Jörgen, 1956 Mar. p. 37, 38, 41. Troitsky, V. S., 1956 Jan. p. 46. Trombe, Felix, 1950 Aug. p. 21. Tronchin, Theodore, 1976 Jan. p. 115. Tronick, E. 1971 Oct. p. 32 Tropfke, Johannes, 1949 Jan. p. 45. Tropical Metabolism Research Unit, 1976 Sept. p. 54. Tropical Radio Telegraph Company, 1961 Sept. p. 84. Trepsch, Franz, 1949 Dec. p. 36, 38, 39,

Tropsch, Hans, 1955 July p. 63: 1976 May p. 27. Trosman, Harry, 1960 Nov. p. 88. Trotter, Dorothy E., 1977 May p. 84. Trousseau, Armand, 1972 Apr. p. 76. Trouvelot, Leopold, 1964 Aug. p. 23. Trowill, Jay, 1970 Jan. p. 32. Troxel, Bennie W., 1969 Aug. p. 50. Troyer, J. Robert, 1968 Mar. p. 118 Truax, Frederick L., 1958 Nov. p. 128. Trubetzkoy, N. S., 1972 Sept. p. 75. Trubnikov, B. A., 1960 Nov. p. 100. Truby, Henry M., 1974 Mar. p. 84. Trudinger, P. A., 1960 Nov. p. 108. True, Frederick W., 1956 Dec. p. 46. Truelove, L. H., 1963 Nov. p. 102. Trueta, Josep, 1948 Aug. p. 46. Truex, Raymond C., 1967 Mar. p. 35. Truganini, 1957 May p. 40. Trujillo, Stephen M., 1968 Oct. p. 48. Truman, Harry S., 1948 Aug. p. 31; Sept. p. 29; Oct. p. 24; Dec. p. 7; 1949 Feb. p. 14, 16, 18, 28; July p. 27; Aug. p. 25; Sept. p. 27; Oct. p. 28; Nov. p. 11, 26,27; Dec. p. 26,27; 1950 Jan. p. 13, 28; Mar. p. 16, 24; Apr. p. 21, 22, 23; May p. 12, 27; July p. 11; Aug. p. 28, 30; Sept. p. 46; Oct. p. 24; Nov. p. 13, 14, 18, 24, 25; Dec. p. 26; 1951 Jan. p. 28; Feb. p. 30, 32; Apr. p. 32; June p. 30; Sept. p. 50; Oct. p. 32, 33; 1952 Feb. p. 34; Mar. p. 34, 38; 1953 Mar. p. 44; Aug. p. 40; 1954 May. p. 31, 32, 34, 35; 1955 May p. 50; 1960 Feb. p. 43; 1961 Apr. p. 78; 1970 May p. 24; 1975 Oct. p. 110, 112, 113; 1976 Sept. p. 38. Trumbo, Donald E., 1968 July p. 49; 1969 Mar. p. 46. Trump, John G., 1970 Aug. p. 25. Trumpler, Robert J., 1950 Feb. p. 35; 1963 June p. 97; 1974 Oct. p. 34; 1977 June p. 68. Trunkline Gas Company, 1970 July p. 95. Trurnit, Hans J., 1950 Mar. p. 28. Trussel, Ray E., 1963 Aug. p. 23. TRW Inc., 1976 Oct. p. 86; 1977 Sept. p. 216. Tryon, Thomas, 1959 June p. 95. Trytten, M. H., 1951 May p. 32; 1956 Sept. p. 111. Tsai, Loh Seng, 1951 Feb. p. 32; 1953 Feb. p. 36. Tsamgao, 1960 Sept. p. 87. Tsang, Chin Fu, 1969 Apr. p. 64. Tsang, Nora, 1976 Apr. p. 45. Tschaikovsky, Anastasia, 1965 Aug. p. 94. Tschanz, Beat, 1972 Sept. p. 55; 1973 Aug. p. 79. Tschermak, E. von, 1950 Sept. p. 55. Tschermak, Erich, 1956 Oct. p. 79, 81; 1968 July p. 55. Tscherning, Kurt, 1955 Jan. p. 55. Tschesche, Rudolf, 1955 Jan. p. 56. Tschiegg, Carl, 1972 Dec. p. 68. Tschirgi, Robert T., 1949 June p. 27. Tschopik, Harry, 1950 Sept. p. 88. Tschudi, Traugott, 1969 Feb. p. 91, 94, 95. Tsien, Hsue-Shen, 1956 Oct. p. 68; 1958 Jan. p. 36. Tsiolkovsky, Konstantin E., 1957 Nov. p. 68; 1959 Dec. p. 80. Tsipis, Kosta, 1975 Jan. p. 48; June p. 41; 1977 Feb. p. 20; Mar. p. 61; Aug. p. 30. Tso, Wung-Wai, 1976 Apr. p. 40, 44, 45. Tsou, Benjamin K., 1973 Feb. p. 60. Tsountas, Crestos, 1954 Dec. p. 72. Tsuda, Kyosuke, 1967 Aug. p. 62, 67. Tsugita, Akira, 1960 July p. 82; 1962 July p. 78; 1964 Oct. p. 51; 1966 Oct. p. 58. Tsuji, F. I., 1977 Mar. p. 110. Tsujimoto, Harry Y., 1960 Nov. p. 105. Tsujino, Akira, 1967 Mar. p. 57. Tsujioka, Bien, 1963 Mar. p. 98.

Tsun Wu, Tai, 1973 Nov. p. 44. Tsuruoka, Seniin, 1975 Apr. p. 26. Tswett, Michael, 1950 June p. 35; Sept. p. 33; 1951 Mar. p. 35-39; 1961 Oct. p. 58. Tube Investments Limited, 1960 July p. 66: 1964 Sept. p. 186. Tubman, William S., 1948 Dec. p. 27. Tuccio, Sam A., 1977 Feb. p. 93. Tuck, James, 1956 Nov. p. 60; 1957 Dec. p. 84. Tuck, James A., 1960 Nov. p. 100; 1970 June p. 113; 1971 Feb. p. 32; 1976 Nov. p. 122, Tuck, Mike, 1973 Dec. p. 110. Tucker, Albert W., 1950 Jan. p. 22; 1953 July p. 66; 1967 July p. 51. Tucker, C. W., 1965 Mar. p. 38. Tucker, E. B., 1963 June p. 67. Tucker, Gordon, 1951 Aug. p. 28. Tucker, K. D., 1977 June p. 81. Tucker, Raymond R., 1964 Jan. p. 26. Tucker, Robert B., 1973 Oct. p. 69. Tucker, Vance A., 1969 May p. 70; 1971 Dec. p. 73; 1973 Mar. p. 90; 1978 Apr. p. 140. Tucker, Wallace, 1971 July p. 74; 1974 Oct. p. 42. Tuckerman, Bryant, 1956 Dec. p. 164; 1971 June p. 56; 1973 Dec. p. 89, 96. Tuckerman, Louis B., 1956 Dec. p. 166. Tuddenham, William J., 1968 Aug. p. 92. Tudor, Guy, 1967 Oct. p. 95. Tudor-Hart, B., 1974 Apr. p. 91. Tuft College Institute for Applied Experimental Psychology, 1949 Dec. p. 29. Tufts University, 1965 Apr. p. 94, 99, 102; June p. 77. Tuke, Daniel H., 1972 June p. 104. Tuke, Samuel, 1973 Sept. p. 120. Tuke, William, 1973 Sept. p. 119, 120. Tukey, John W., 1952 Sept. p. 135; 1956 Dec. p. 164, 166; 1961 Nov. p. 79; 1964 Sept. p. 160; 1965 June p. 46; 1966 Oct. p. 46; 1968 Sept. p. 102. Tulane University, 1964 July p. 96; Dec. p. 75. Tulinov, A. F., 1968 Mar. p. 98. Tullar, B. F., 1955 May p. 74. Tullis, James L., 1954 Feb. p. 58. Tulloss, I., 1969 July p. 87. Tulving, Endel, 1971 Aug. p. 85. Tumin, Melvin M., 1957 Nov. p. 77. Tunisian National Institute of Archeology and Art, 1978 Jan. p. 111, 113, 116. Tupasi, T., 1974 Nov. p. 20. Tuppy, Hans, 1955 May p. 38. Turba, Fritz, 1951 Dec. p. 51. Turbeville, Gus, 1953 Aug. p. 48. Turbin, N. V., 1954 Sept. p. 82. Turco Products, Inc., 1957 Jan. p. 105. Turekian, Karl K., 1977 June p. 50. Turgenev, Ivan, 1974 July p. 111. Turing, A. M., 1955 Apr. p. 60-64; 1958 June p. 97; 1964 Sept. p. 152; 1965 Nov. p. 98; 1966 Sept. p. 166, 65, 68; 1971 Mar. p. 58; 1973 Nov. p. 85, 90; 1974 Dec. p. 52; 1976 Oct. p. 64; 1978 Jan. p. 101, 103. Turkevich, Anthony L., 1954 Mar. p. 62; 1956 Sept. p. 154; 1967 Nov. p. 53; 1969 Sept. p. 88; 1970 Aug. p. 18, 20. Turkewitz, Gerald, 1972 Dec. p. 18. Turkington, Roger W., 1969 July p. 62. Turkish Historical Foundation, 1963 Feb. p. 98; 1967 Mar. p. 38. Turkish National Department of Antiquities and Museums, 1963 Feb. p. 98; 1967 Mar. p. 38; 1970 Mar. p. 53. Turkstra, J., 1967 Apr. p. 79, 82 Turlay, Rene, 1964 Sept. p. 82; Dec. p. 62; 1965 Apr. p. 56; Dec. p. 29, 32; 1969 Oct. p. 91. Turman, B. N., 1977 Sept. p. 106.

Turnbull, David, 1971 Apr. p. 98; 1978 Apr. p. 86, 87, Turneaure, John, 1965 Dec. p. 42. Turner, B. B., 1961 July p. 58. Turner, B. R., 1968 Oct. p. 46. Turner, Barry E., 1973 Apr. p. 35. Turner, C. W., 1957 Oct. p. 124. Turner, Carles H., 1961 Aug. p. 48. Turner, Henry, 1961 Nov. p. 74; 1963 July p. 60. Turner, J. M. W., 1969 Sept. p. 55. Turner, J. S., 1973 Feb. p. 74. Turner, John, 1967 Oct. p. 29. Turner, Kenneth C., 1973 June p. 34. Turner, P. G., 1977 June p. 81. Turner, Robert, 1950 Oct. p. 26. Turner, Rowley, 1973 Mar. p. 82. Turner, Ruth D., 1977 June p. 50. Turner, W. E. S., 1963 Nov. p. 125. Turpin, Raymond, 1961 Nov. p. 72. Tursky, Bernard, 1969 Apr. p. 50. Tuscany, Duke of, 1950 Feb. p. 41. Tushingham, A. Douglas, 1954 Apr. p. 77. Tustin, Arnold, 1952 Sept. p. 44, 59; 1961 Jan. p. 136. Tutankhamen, 1963 Nov. p. 123; 1966 July p. 56; 1969 Dec. p. 55; 1978 Mar. p. 74. Tuttle, O. Frank, 1955 Sept. p. 64. Tuttle, Thomas R. Jr., 1977 July p. 95. p. 126, 127; 1968 Sept. p. 115; 1973 June p. 34. Tuve, Merle A., 1948 June p. 34; 1955 Sept. Tuyn, W., 1971 Nov. p. 26. Tuzet, Odette, 1956 Nov. p. 123. Tuzo Wilson, J., 1968 Apr. p. 54, 57. Tvy, Andrew C., 1953 Sept. p. 72. Twain, Mark, see: Clemens, Samuel L.. Tweedell, K. S., 1973 Oct. p. 27. Tweet, A. G., 1961 Oct, p. 107; 1963 Aug. p. 72. Twente University of Technology, 1978 June p. 86. Twiesselmann, François, 1962 June p. 105. Twitchell, Paul F., 1974 May p. 62. Twitty, Victor C., 1957 Nov. p. 86; 1967 Aug. p. 62; 1978 June p. 108. Twyman, F., 1968 Sept. p. 101, 100, 105. Tyche, Cominia, 1960 Sept. p. 194. Tycho Brahe, see: Brahe, Tycho. Tyco Laboratories, Inc., 1970 Nov. p. 53; 1976 Oct. p. 41. Tydings, Millard, 1950 Apr. p. 23. Tylecote, R. F., 1971 June p. 105. Tyler, Albert, 1949 Sept. p. 16; 1961 Sept. p. 174, 180. Tyler, Carroll L., 1949 July p. 33; 1953 Apr. p. 94. Tyler, Cyril, 1970 Mar. p. 92. Tyler, Edward B., 1950 Sept. p. 87. Tyler, G. L., 1968 July p. 37. Tyler, James C., 1965 Nov. p. 111, 114. Tyler, John, 1950 Nov. p. 11. Tyler, John E., 1971 Jan. p. 65. Tyler, Leona E., 1974 Nov. p. 50. Tyler, Stanley A., 1956 July p. 92; 1962 Dec. p. 70; 1965 Apr. p. 60; 1967 Jan. p. 38; 1970 Sept. p. 45, 52; 1971 May p. 34, 38; 1975 Sept. Tyler, William, 1975 Apr. p. 40. Tylor, Edward B., 1956 May p. 70. Tylor, Edward, Sir, 1957 May p. 41. Tynan, Paul, 1977 Jan. p. 72, 73. Tyndall, John, 1949 Dec. p. 52; 1953 Feb. p. 69, 70, 72, 74; 1955 May p. 69, 70; 1959 Feb. p. 122; July p. 41; Nov. p. 103; 1960 Nov. p. Tyrrell, D. A. J., 1960 Dec. p. 89, 94, 95, 1966 July p. 32. Tyshchenko, V. P., 1976 Feb. p. 118.

Tyson, Bill, 1967 Sept. p. 100. Tyson, J. A., 1973 Feb. p. 48. Tytell, Alfred A., 1971 July p. 26; 1974 July p. 42; 1977 Apr. p. 49. Tzagoloff, Alexander, 1974 Mar. p. 29. Tzuzuki, Masao, 1954 May p. 46.

Uadji, Pharaoh, 1957 July p. 107, 110. Ubisch, G. von, 1968 Apr. p. 89. Uccelli, Arturo, 1971 Feb. p. 101. Uchida, Genko, 1966 Nov. p. 37; 1972 Dec. p. 13. Uchida, Irene A., 1965 Feb. p. 62. Uchida, Takahiro, 1969 Nov. p. 123. Uchizono, Koji, 1976 Aug. p. 29. Udall, Stewart L., 1963 Sept. p. 84. Udenfriend, Sidney, 1957 Dec. p. 54. Udimu, Pharaoh, 1957 July p. 106, 107, 112. Udjus, Ludwig, 1968 Jan. p. 24. Udy, Martin, 1963 Sept. p. 136. Ueda, Tetsufumi, 1977 Aug. p. 115, 117. Uenohara, M., 1959 June p. 124. Uetake, Hisao, 1969 Nov. p. 122, 123. Uexküll, Jakob J. von, 1958 Dec. p. 68; 1976 Jan. p. 99. Ulfen, Robert, 1967 Feb. p. 54; July p. 33. Uganda Queen Elizabeth National Park, 1960

Nov. p. 133. Uganda Veterinary Department, 1969 Feb. p. 78.

Uglum, John, 1972 Apr. p. 29.

Uhlenbeck, George, 1950 Sept. p. 30; 1963 July p. 111; 1965 May p. 64, 66; 1966 July p. 68; 1968 Jan. p. 73.

Uhlenberg, Peter R., 1974 Sept. p. 139. Uhlig, Herbert H., 1954 Nov. p. 37; 1956 May p. 37, 39

Uhlir, Arthur Jr., 1956 Apr. p. 62. Uhr. Jonathan W., 1977 Oct. p. 103. Uspoignamet, 1960 Nov. p. 166. Untert, L. G. van, 1968 Sept. p. 132. U.K., see also: British; Commonwealth. U.K. Ancient Monuments Laboratory, 1977

Dec p. 163. UK Anti-Locust Research Center, 1963 Dec. p 132; 1971 Aug p. 77.

UK Armagh Observatory, 1952 July p. 47, 57, 1964 Feb p 50

UK Central Electricity Generation Board, 1978 Jan p 64

UK Church Commissioners, 1976 Oct p 126 U K Common Cold Research Unit, 1960 Dec. p 88, 93, 100, 102

UK Department of Defense and Technology, 1970 July p 23

UK Department of Environment, 1976 Oct

p 126 UK Harwell Atomic Energy Establishment.

U.K. Marine Biological Laboratory, 1952 July p 68, 1960 Mar p 166

U.K. Ministry of Public Buildings and Works, 1970 May p 58, July p 23; Nov p 30

UK Ministry of Technology, 1970 July p. 22,

U.K. National Hospital for Nervous Diseases, 1971 Mar p 65

U.K. National Institutes for Medical Research, 1957 Oct p 125, 1958 July p 98, 1962 Mar p 117, Aug p 113-115; 1903 May p. 101, Oct p 46, 1970 June p 125, 1971 July p. 26, 1977 Apr p 42, 45, 49, Dec p 50

UK National Physical Laboratory, 1963 May

p. 57; 1968 June p. 55; 1970 July p. 22. U.K. National Physics Laboratory, 1964 Dec. p. 56.

U.K. Natural Environment Research Council, 1975 Jan. p. 90.

U.K. Nautical Almanac Office, 1966 June p. 35. U.K. Nuffield Radio Astronomy Laboratories, 1961 Feb. p. 74.

U.K. Political and Economic Planning Organization, 1956 Mar. p. 67, 76.

U.K. Public Health Laboratory, 1963 Jan. p. 52. U.K. Radiobiological Research Unit at Harwell, 1963 July p. 55.

U.K. Rothamsted Experimental Station, 1963 Dec. p. 132, 136; 1964 Oct. p. 46; 1969 Apr. p. 88, 90.

U.K. Royal Greenwich Observatory, 1964 Jan.

U.K. Social Sciences Research Council, 1948 June p. 24.

U.K. Society for the Encouragement of the Arts, Manufactures and Commerce, 1960 Sept. p. 189.

U.K. Standing Joint Committee on Metrication, 1970 July p. 23.

U.K. University Grants Committee, 1958 Sept.

Ukrainian Academy of Sciences, 1966 May p. 39.

Ulam, Stanislas M., 1950 Jan. p. 24; 1955 May p. 90; 1958 Dec. p. 111; 1966 Dec. p. 51; 1967 Dec. p. 116.

Ulfilas, 1968 May p. 37.

Ullman, Jeffrey D., 1978 Mar. p. 132. Ullmann, E., 1959 Oct. p. 57. Ullmann, John E., 1964 June p. 54. Ullmo, Yves, 1977 Nov. p. 70. Ulloa, Antonio de, 1974 July p. 60. Ullrich, Ludwig, 1968 July p. 50. Ulmer, David, 1959 July p. 72. Ulomov, V. I., 1977 Apr. p. 36. Ulnch, Roger, 1969 July p. 36. Ulrichs, J., 1975 Sept. p. 66. Umbarger, H. E., 1964 Nov. p. 76; 1965 Apr.

p. 36, 40. Umbreit, W. W., 1949 Aug. p. 34. Umemoto, Takao, 1956 May p. 54,

U.N. Atomic Bomb Casualty Commission, 1954 Jan. p. 40.

U.N. Atomic Energy Commission, 1948 June p. 25; Oct. p. 25; Nov. p. 24; 1951 May p. 36; 1955 Jan. p. 43.

U.N. Atoms for Peace Agency, 1956 June p. 58. U.N Center for Disarmament, 1977 Nov. p. 70. U.N. Committee on the Peaceful Uses of Atomic Energy, 1958 Nov. p. 52.

U.N. Committee on the Peaceful Uses of Outer Space, 1962 Apr. p. 74; 1967 Jan. p. 54.

U.N. Conference on the International Year of Women, 1975 Sept. p. 53.

U.N. Department of Economic Affairs, 1949 Mar. p. 26

U.N. Department of Economics and Social Affairs, 1961 May p. 74; 1972 Sept. p. 64.

U.N. Development Program, 1966 May p. 29; 1973 June p 27, 1974 Sept. p. 178; 1976 Sept. p 190.

UN Disarmament and Atomic Development Authority, 1954 Aug. p. 38

UN Disarmament Committee, 1953 Oct p. 50; 1966 Jan. p. 47; 1971 Nov. p. 47; 1975 Mar.

p 47 UN Economic and Social Council, 1949 May p 29, Nov p 30, 1950 Aug. p. 14; 1974 Sept. p 68, 1976 Sept. p. 47

U.N. Economic Commission, 1949 Mar. p. 27. U.N. Economic Commission for Asia and the

Far East, 1963 Apr. p. 49, 50, 57, 58. U.N. Economic Commission for Europe, 1948 July p. 9.

U.N. Educational, Scientific, and Cultural Organization, 1948 May p. 11, 33; July p. 31; Oct. p. 25; 1949 Jan. p. 29; May p. 29; Nov. p. 30; 1950 Mar. p. 16; 1953 Jan. p. 30; Apr. p. 45; Sept. p. 73; 1954 June p. 50; Aug. p. 38; 1955 June p. 48; Sept. p. 78; 1956 Dec. p. 52; 1957 May p. 43; 1960 May p. 98; 1962 Nov. p. 71; 1963 Oct. p. 58; 1965 Jan. p. 49; Nov. p. 49; 1967 Mar. p. 90; 1970 Aug. p. 46; 1976 Aug. p. 30; 1978 Jan. p. 110.

U.N. Environment Program, 1974 Oct. p. 33. U.N. Food and Agriculture Organization, 1948 July p. 31; 1949 Apr. p. 27; 1950 Mar. p. 16, 18; Aug. p. 12, 14, 15; 1951 July p. 31; 1954 Dec. p. 47, 49, 50; 1960 Mar. p. 58; July p. 86-103; 1963 Apr. p. 57; May p. 145; Sept. p. 73, 74; 1965 Oct. p. 14, 15; 1966 May p. 21, 29; Aug. p. 17; 1967 Feb. p. 28, 30, 35; 1968 Nov. p. 32; 1969 Dec. p. 50; 1970 Jan. p. 49; Aug. p. 54, 60, 66, 68; Sept. p. 164; Dec. p. 17; 1971 Jan. p. 86, 94; May p. 19; Oct. p. 41; 1972 Mar. p. 15, 19, 21; 1973 June p. 28; 1974 Aug. p. 78; Sept. p. 163, 164; 1976 Sept. p. 34, 35, 38, 42, 48, 55, 60, 91, 101, 132, 190, 202; 1977 July p. 62; 1978 Jan. p. 39.

U.N. General Assembly, 1948 June p. 25; 1949 Mar. p. 27; Dec. p. 26; 1955 Jan. p. 42; Oct. p. 27; 1956 Jan. p. 44; 1961 Dec. p. 72; 1962 Jan. p. 58; 1966 Jan. p. 47; 1967 Jan. p. 54; 1968 July p. 48; 1969 Nov. p. 56; 1970 Jan. p. 48; May p. 24; 1971 Jan. p. 44; Nov. p. 46; 1974 July p. 47; Oct. p. 55; 1975 Nov. p. 56; 1977 Nov. p. 70.

U.N. Governing Council for Environmental Programs, 1972 Aug. p. 42.

U.N. Institute for Advanced Studies in Nuclear Research, 1952 Feb. p. 34.

U.N. International Children's Emergency Fund, 1962 May p. 96; 1976 Oct. p. 29.

U.N. International Civil Aviation Organization, 1953 Dec. p. 49.

U.N. International Disarmament Control Organization, 1974 Oct. p. 22, 29-33.

U.N. International Task Force on Child Nutrition, 1976 Sept. p. 44.

U.N. International Whaling Commission, 1965 June p. 58.

U.N. Organization, 1949 Apr. p. 24; Aug. p. 24; Sept. p. 29; Nov. p. 26; Dec. p. 26; 1950 Jan. p. 11; 1954 Feb. p. 43; Oct. p. 46; Nov. p. 35; 1955 Mar. p. 50; 1956 Mar. p. 64; 1957 Aug. p. 58; 1960 Jan. p. 70; Feb. p. 64; Aug. p. 70; Sept. p. 195; Dec. p. 72; 1962 Apr. p. 51, 53; 1963 Sept. p. 111, 113, 134, 135, 164, 166, 226, 229, 238, 240, 60, 61, 63, 65; Nov. p. 64; 1965 Mar. p. 28, 30; Apr. p. 35; June p. 64, 66; Sept. p. 155, 42, 53; 1966 July p. 43, 50; Nov. p. 40, 66; 1967 Oct. p. 48; 1968 Nov. p. 29; 1969 Aug. p. 48; 1970 June p. 17; Aug. p. 56. 66; 1972 Jan. p. 11; Aug. p. 42; Sept. p. 64; 1973 Apr. p. 43; June p. 39; July p. 48; 1974 Sept. p. 113, 176, 31, 35, 41, 51; Nov. p. 49; 1975 Apr. p. 19, 21-23, 27, 31; Aug. p. 46; Nov. p. 27-35; 1976 Sept. p. 33, 42, 188, 201; 1978 Apr. p. 78.

U.N. Political Committee, 1974 Oct. p. 21. U.N. Protein Advisory Group, 1972 Oct. p. 71. U.N. Relief and Rehabilitation Administration, 1948 Nov. p. 25; 1949 Apr. p. 27; 1952 June

p. 24. U.N. Scientific Committee on the Effects of Atomic Radiation, 1958 Sept. p. 84; 1960 Apr. p. 145; 1977 June p. 23.

U.N. Security Council, 1948 June p. 25; 1949

Nov. p. 12, 13; 1974 Oct. p. 31. U.N. Special Fund, 1966 July p. 49. U.N. Statistical Office, 1958 Apr. p. 92. U.N. Technical Assistance Administration, 1951 Oct. p. 38; 1962 May p. 96. U.N. Working Group on Remote Sensing of the Earth, 1974 Oct. p. 27. U.N. World Bank for Reconstruction and Development, 1950 Aug. p. 14. U.N. World Health Assembly, 1948 May p. 33; July p. 30. U.N. World Meteorological Organization, 1953 Dec. p. 49. U.N. World Water Conference, 1977 Nov. p. 68. Unanue, Emil R., 1976 May p. 35, 38. Undemann, Frederick A., 1964 July p. 103. Underhay, E. E., 1963 Nov. p. 112. Underhill, E. W., 1964 June p. 86. Underwood, Arthur F., 1975 July p. 64. Underwood, Benton J., 1966 July p. 92; 1967 Oct. p. 118, 119; 1971 Aug. p. 90. Underwood, Herbert, 1972 Mar. p. 27, 29. U.N.E.S.C.O., see: U.N. Educational, Scientific and Cultural Organization. Ungerstedt, Urban, 1974 June p. 71. Unilever Research Laboratory, 1970 Nov. p. 70. Union Carbide and Carbon Corporation, 1949 Jan. p. 18; 1951 Feb. p. 34; 1952 July p. 35; Oct. p. 39; 1953 May p. 35; 1958 Jan. p. 46; 1972 Apr. p. 90, 89; 1973 July p. 38. Union Carbide Nuclear Corporation, 1960 June p. 147; 1965 May p. 44. Union College, 1963 June p. 55, 57. Union Electric Company, 1953 July p. 40. Union of Concerned Scientists, 1978 Feb. p. 76. Union of Soviet Socialist Republics, 1956 Jan. p. 48, 49, 50; 1966 July p. 26; 1969 Apr. p. 15-25, 58, 61, 63; 1970 Jan. p. 19-29; 1971 Jan. p. 17, 25; Apr. p. 48; 1975 May p. 42; 1976 Nov. p. 36, 37; 1977 Jan. p. 21; Feb. p. 20; Aug. p. Union Oil Company, 1970 Nov. p. 115. Union Oil Company of California, 1966 Feb. p. 25, 26, 28, 29. Union Pacific Railroad, 1953 Nov. p. 71. Union Pharmaceutical Company, Inc., 1950 May p. 29; Aug. p. 31. Union Shell, 1959 Apr. p. 49. United Air Lines, 1957 Apr. p. 139. United Aircraft, 1971 June p. 26; Sept. p. 155; 1973 July p. 40. United Arab Republic, 1963 Sept. p. 240; 1966 May p. 27, 29. United Automobile Workers, 1974 Aug. p. 57. United Engineering and Foundry Company, 1963 Dec. p. 76. United Engineers and Constructors, 1973 Oct. p. 24. United Jewish Appeal, 1949 Oct. p. 28. United Press, 1948 Oct. p. 24. United Reprocessors GmbH, 1976 Dec. p. 36, 39. United Shoe Machinery Corporation, 1957 Sept. p. 211. United Vintners, 1964 Aug. p. 52. Univerisity of Cambridge, 1960 May p. 141. Univeristy of Wisconsin, 1956 Apr. p. 60. Universal Oil Products Company, 1971 Dec. p. 47, 58. University College Hospital London, 1962 Aug. p. 66; 1963 Nov. p. 106, 108. University College Hospital Medical School, 1963 July p. 55. University College Ibadan, 1963 Sept. p. 171, University College London, 1957 Apr. p. 63;

1958 Sept. p. 135; Dec. p. 84, 87; 1961 Aug.

1965 Mar. p. 43; Apr. p. 102; June p. 79; Sept. p. 190; Oct. p. 47; Dec. p. 26, 27; 1966 Oct. p. 79; 1970 July p. 59; 1975 Dec. p. 38, 39; 1978 Apr. p. 80. University of Aberdeen, 1960 Nov. p. 154, 158; 1963 Nov. p. 112; 1964 Aug. p. 74. University of Adelaide, 1961 Mar. p. 73; 1962 Dec. p. 51; 1963 June p. 88; Dec. p. 35. University of Alaska, 1953 Sept. p. 68; 1962 Mar. p. 135; Sept. p. 77; 1963 June p. 53; 1964 Apr. p. 70; 1965 Mar. p. 67; Dec. p. 54, 55, 58, 62. University of Alaska Geophysical Institute, 1955 Sept. p. 142-144, 146. University of Alaska Institute of Artic Biology, 1966 Jan. p. 94. University of Alberta, 1961 Mar. p. 56. University of Amsterdam, 1962 Mar. p. 117; 1977 Oct. p. 49. University of Arizona, 1956 Jan. p. 48; 1963 Feb. p. 82; Mar. p. 104; 1965 May p. 29; Aug. p. 29. University of Berlin, 1958 Feb. p. 76; Mar. p. 95; 1963 Apr. p. 120; 1964 Nov. p. 109, University of Berne, 1963 May p. 70; Nov. p. 117. University of Besançon, 1966 July p. 74. University of Birmingham, 1953 May p. 44; 1965 May p. 74; 1973 Mar. p. 48. University of Bonn, 1962 Mar. p. 90; July p. 84; 1963 July p. 42. University of Bordeaux, 1964 Aug. p. 86. University of Breslau, 1958 Apr. p. 40. University of British Colombia, 1964 May p. 69, University of Brussels, 1962 June p. 105; 1963 Oct. p. 47. University of Budapest, 1958 Apr. p. 42; 1962 Mar. p. 62. University of Buffalo, 1956 Sept. p. 110; 1963 Mar. p. 118, 124, 124; 1964 Mar. p. 42. University of Calcutta, 1965 Sept. p. 102. University of California, 1950 June p. 28; 1951 Oct. p. 36; 1952 Dec. p. 28; 1953 May p. 84; Sept. p. 70; 1954 Mar. p. 44; 1955 Dec. p. 52; 1956 May p. 62; July p. 104; Sept. p. 111; 1957 Mar. p. 41; May p. 62; Sept. p. 198; Oct. p. 44; 1958 Jan. p. 36; Feb. p. 29, 33, 36; Mar. p. 65, 69; Apr. p. 114, 34, 64; July p. 31; Sept. p. 150, 151, 155; Nov. p. 92; Dec. p. 106, 29; 1960 Mar. p. 108; Apr. p. 88; June p. 82; Aug. p. 83, 89; Nov. p. 105, 108, 109, 112, 182; Dec. p. 64; 1961 Jan. p. 79; 1962 Apr. p. 63; June p. 88, 92; 1963 Jan. p. 49; Mar. p. 136, 138, 43; Apr. p. 65, 66, 68, 70, 72, 73, 92; May p. 95; June p. 124, 127, 63, 84; July p. 120, 46, 51, 84; Aug. p. 22, 78; Oct. p. 116, 117, 68; Nov. p. 104, 110, 78, 90; Dec. p. 100, 61; 1964 Jan. p. 68, 73, 82; Feb. p. 53, 90, 93; Mar. p. 99; Apr. p. 118, 46; June p. 38, 42, 49; July p. 101, 58; Sept. p. 208, 55; Oct. p. 48; Dec. p. 117, 72; 1965 Mar. p. 65, 82, 89; Apr. p. 106, 113, 42, 45; May p. 30, 34, 80; June p. 37. 40; July p. 29, 58, 60, 74, 75, 77, 83; Aug. p. 26, 50, 55, 63; Sept. p. 169, 200, 41; Oct. p. 33, 46; Nov. p. 35-37, 94; Dec. p. 55, 84; 1966 Mar. p. 58; 1970 Feb. p. 93; May p. 65; 1971 Oct. p. 69; 1977 Mar. p. 119. University of California Agricultural Extension Service, 1966 July p. 62; 1977 Nov. p. 67. University of California at Berkeley, 1950 May p. 27; 1954 May p. 52; 1964 July p. 44; 1966 July p. 58, 64, 69, 70, 72, 75, 77, 78; 1968 Dec. p. 38, 39; 1969 May p. 53; 1970 Nov. p. 46; 1973 Jan. p. 44; 1974 Dec. p. 118; 1978 June

p. 116; 1962 Aug. p. 117; 1963 Mar. p. 45;

University of California at Berkeley Lawrence Livermore Radiation Laboratory, 1949 Mar. p. 25; 1953 June p. 46; 1955 Dec. p. 47; 1957 Oct. p. 88; Dec. p. 84; 1962 May p. 141; June p. 92; Aug. p. 39, 42; Oct. p. 84; 1963 Jan. p. 39, 40, 44, 45, 47; 1964 Aug. p. 56; 1966 July p. 69; Sept. p. 164, 88; Dec. p. 29; 1969 Apr. p. 59, 61, 63, 64; 1970 June p. 48; 1971 Feb. p. 53, 58, 60; June p. 27; Dec. p. 29; 1973 Mar. p. 46; July p. 48; 1974 Feb. p. 44; Oct. p. 57; 1975 Jan. p. 72, 76; July p. 42; 1976 Apr. p. 55; 1977 Feb. p. 92, 93; Oct. p. 59, 63, 69; 1978 May p. 44. University of California at Davis, 1966 July p. 57; 1971 Dec. p. 31; 1977 Nov. p. 129, 136. University of California at Irvine, 1972 Feb. p. 84, 86. University of California at Livermore, 1955 Nov. p. 54. University of California at Los Angeles, 1970 Oct. p. 83, 91; 1971 Feb. p. 110; 1977 Oct. p. 132. University of California at Riverside, 1952 Oct. p. 21-24. University of California at San Diego, 1977 Oct. p. 68. University of California at San Francisco, 1977 Feb. p. 106. University of California at San Francisco Medical Center, 1964 Jan. p. 81, 84. University of California at Santa Barbara, 1966 Sept. p. 208. University of California Barcroft Laboratory, 1970 Feb. p. 52, 56, 62. University of California Hat Creek Radio Observatory, 1978 Jan. p. 74-76. University of California Lick Observatory, 1948 July p. 21; Nov. p. 39; 1953 Feb. p. 20; 1954 July p. 34, 35; 1960 May p. 63; 1961 June p. 119; 1962 Mar. p. 47; 1963 Apr. p. 66; June p. 97; 1964 Jan. p. 39, 40; May p. 78-80, 86; Nov. p. 40, 45; Dec. p. 38, 40; 1968 Aug. p. 51, 58, 59. University of Cambridge, 1956 Oct. p. 129; 1957 Sept. p. 200; 1958 Jan. p. 68; Feb. p. 30, 72, 77; Mar. p. 120, 68; Apr. p. 43; May p. 99; July p. 57; Nov. p. 74; Dec. p. 84, 85; 1960 Nov. p. 172; 1961 Feb. p. 82; Nov. p. 120; Dec. p. 107; 1962 Feb. p. 129; Mar. p. 63; Apr. p. 145, 63; May p. 134; Aug. p. 104, 37; 1963 Jan. p. 49; Mar. p. 86; Apr. p. 93; May p. 72; July p. 111, 119, 120; Aug. p. 89; Oct. p. 48, 85-87; Nov. p. 110; Dec. p. 54, 60; 1964 Jan. p. 106, 108, 73, 89; Mar. p. 113; May p. 52; June p. 72, 85; July p. 101; Aug. p. 43; Sept. p. 150, 180; Nov. p. 47, 64, 66, 69, 74; Dec. p. 54, 72, 76; 1965 Mar. p. 43, 74; Apr. p. 39, 71, 83; May p. 113, 31, 36, 85; June p. 108, 50, 77; July p. 81; Dec. p. 20, 46, 48, 51; 1966 June p. 31; Aug. p. 73; Oct. p. 79, 81; Nov. p. 114; Dec. p. 34, 36, 38; 1972 May p. 84; 1973 Aug. p. 72; 1974 Aug. p. 27; 1977 Mar. p. 116, 119, 121; Dec. p. 161; 1978 June p. 86. University of Canterbury in New Zealand, 1964 Apr. p. 94. University of Chicago, 1950 Nov. p. 12; 1952 Apr. p. 42; June p. 50; Aug. p. 34; 1955 Sept. p. 54; 1956 Apr. p. 60; July p. 76; Nov. p. 135, 136; 1957 May p. 62; Aug. p. 35; 1958 Feb. p. 54; Mar. p. 82; Apr. p. 109; July p. 52, 61; Dec. p. 85; 1960 Nov. p. 82, 87; 1961 May p. 66; July p. 49; 1963 Jan. p. 41, 43, 45, 74; Feb. p. 55; Mar. p. 46-48, 83; May p. 131, 69;

Oct. p. 116; Nov. p. 125; 1964 Jan. p. 108, 42,

43, 65, 66, 82, 90; Feb. p. 51, 84, 85; Apr. p.

1700

66, 70, May p 56, June p 72, July p 16, Nov p 53, Dec p 116, 1965 Mar p 68, Apr p 40, 46, 53, 54, June p 46, Aug. p 14, 19, 56, Oct p 18, 28, 30, 32, 35, 36, 1966 May p 68, 1971 Apr p 26, 28, 1972 Nov p 39, 1974 Oct. p 112, 1978 Jan p 112, 115 University of Chicago Institute for Computer Research, 1969 Apr p 79 University of Chicago National Opinion Research Center, 1948 Dec p 11, 1954 Mar p 48, 1956 Dec p 35-37, 39, 1962 Oct p 1963 Aug. p 23, 1964 July p 16, 19, 21, 1971 Dec p 13-15, 19, 1973 Sept. p 155, 1978 June p 42, 47 University of Chicago Oriental Art Institute, 1952 Oct p 63, 1957 Oct p 78, 1960 Sept p 134, 146, 1965 Sept p 55, 1970 Mar p 51-University of Chicago Press, 1958 Jan p 46 University of Chicago Yerkes Observatory, 1953 Feb p 20, 1962 Mar p 49, Apr p 57, 63, Nov p 58, 1963 Jan p 73, 76, Feb p 50 University of Cincinnati, 1958 May p 111, July p 52 University of Cologne, 1966 Oct p 60 University of Colorado, 1948 Nov p 34, 1958 Aug. p 34, 39, Oct p 96, 1959 May p 54, 1960 Apr p 145, 1963 Mar p 82, 1964 Feb p 35, June p 47, Aug p 63, 1965 July p 74, Dec p 81, 1968 Oct p 51 University of Colorado High Attitude Observatory, 1962 Feb p 50, 54, 55, 58 University of Connecticut, 1965 June p 77, 1970 May p 44, 48 University of Copenhagen, 1962 Aug p 106, 1963 Apr p 66 University of Dorpat, 1977 June p 108 University of Edinburgh, 1963 Apr p 92, Nov p 106, 1964 Apr p 94, 1965 June p 111, 112 University of Florence, 1949 Nov p 30 University of Florida, 1963 Aug. p 90, 1964 July p 39, 1965 May p 79, 83, 84, 86, 1970 Oct p 91 University of Frankfurt, 1963 Jan p 109, 1965 May p 59 University of Georgia, 1961 June p 144, 1970 University of Ghent, 1977 Dec p 62 University of Glasgow, 1964 Jan p 105 University of Goteborg, 1963 Feb p 56 Oct p 28, 1964 Apr p 56, Dec p 51 University of Gottingen, 1961 Dec p 84 1964 Apr p 68 University Of Halle, 1958 Dec p 84 University of Hamburg, 1964 Apr p 50, 1965 May p 61 University of Hawaii, 1972 Jan p 47, 1973 Oct p 71, 1976 Apr p 55, 1977 Nov p 63 University of Helsingfors, 1963 Apr p 145 University of Helsinki 1965 June p 77 University of Hull, 1964 July p. 105 University of Illinois 1949 Nov p 30, 1953 Sept p 72, 1956 Apr p 60, 1958 May p 64 69 71. July p 52 72, Oct p 88, Dec p 37, 40, 1962 July p 54, 1963 I eb p 50, Mar p 83 96 98 Nov p 43, 53, 1964 May p 49, 56, July p 106 1965 July p 77, 79, 94, Oct. p 60 Nov p 27 40, 1966 Mar p 58, Sept p 208, 1970 Feb p 23 1971 Feb p 76, 86, 1976 Nov p 115, 1977 Oct p 116 University of Illinois Press 1949 July p. 14 University of Indiana, 1964 June p. 57, 88, 1965 Apr p 114 University of Innsbruck 1962 May p. 63-64-72 University at Iona 1950 Apr p 60

p 122, 124, 1966 Dec p 115 University of Karlsruhe, 1970 Nov p 45 University of Kenchreai, 1974 Oct. p 112 University of Leeds, 1962 Mar p 62, 63, 1963 Aug. p 80, 82 University of Leiden, 1949 Jan p 28, 1958 June p 30, 1963 June p 94, 1964 Jan p 35, 1965 University of Liege, 1965 May p 35 University of Liverpool, 1960 Mar p 108, 1963 Feb p 110, 1965 Dec p 31 University of London, 1962 Nov p 121, 1963 Jan p 53, Apr p 95, July p 130, 1964 Feb p 61, Apr p 94, 1965 Mar p 96, June p 115, Oct p 32, 1977 Oct p 125 University of Louisville, 1978 June p 126 University of Lund, 1963 June p 57, July p 55 University of Manchester, 1957 Nov p 128, 129, 1963 Dec p 56, 1964 Jan p 106, Nov p 118, 40, 1965 May p 31 University of Manchester Institute of Science and Technology, 1970 Feb p 30 University of Manchester Jodrell Bank Observatory, 1952 July p 36, 1953 Jan p 20, 1960 Jan p 47, 51, 1961 Apr p 70, July p 68, 1966 June p 31, 39, Aug p 35 University of Manchester Jodrell Bank Radio Observatory, 1955 Aug. p 48, 1963 Jan p 74, 1964 Aug p 15-17, 19, Nov p 40 University of Manchester Nuffield Radio Astronomy Laboratories, 1962 Dec p 51, 1975 Aug p 28, 30 University of Manitoba, 1963 May p 122, 1974 Aug p 74, 76, 80 University of Marburg, 1964 Apr p 57 University of Maryland, 1958 Dec p 42, 1969 Sept p 90, 1971 May p 23, 25, 1974 Dec p 66, 1977 Oct p 68 University of Melbourne, 1963 Jan p 128 University of Miami, 1960 Mar p 161 University of Michigan, 1949 Aug p 25, 1950 Dec p 29, 1952 June p 21, 1955 May p 58, 1956 Apr p 60, Sept p 110, Oct p 57, 1958 Jan p 68, July p 52, Nov p 118, 1961 Apr p 47, 1962 Apr p 59, 1963 Feb p 56, 57, July p 42, Dec p 94, 1964 Mar p 36, 46, 47, 52, Apr p 39, May p 29, Sept p 153, Oct p 109, 110, 112, Nov p 33, 1965 May p 37, June p 24-26, Sept p 72, Nov p 81, 1966 Mar p 58, Sept p 208, 1968 Aug. p 15, 1971 May p 99, 1973 Jan. p 44, July p 17, 1975 Sept p 60, 1977 Aug. p 58, 62, 63, 1978 Jan p 112, 114, 115, 44 45, 49 University of Michigan McMath-Hulbert Observatory, 1960 May p 66, June p 67 University of Michigan Survey Research Center, 1948 Dec p 9, 1954 May p 31, 33, Oct p 31, 1962 May p 48, Oct. p 30, 1970 June p 17, 18, 20, 22-24 University of Milan, 1962 Jan p 53 University of Minnesota, 1953 June p 39, 1956 Apr p 60, 1958 July p 52, 1960 Feb p 76, 81, 82, 84 88, June p 68, Nov p 182, 1963 Feb p 89, Mar p 114, May p 126 96, 1964 Mar p 42, Aug. p 14, 1965 July p 77, Dec p 62, 1966 June p 97, July p 74 University of Missouri, 1958 July p. 52 University of Montpellier, 1963 Apr p 149 University of Montreal 1949 Mar p 20/21 University of Moscow 1974 Dec p 43 University of Munich, 1963 Mar p 50, Apr p 149 May p 102, 68 Nov p 110, 1964

Apr p 117

University of Napova 1964 Dec. p. 51

University of Napies 1963 Nov p 114

University of Nebraska, 1966 June p. 97

University of Nairobi, 1977 Apr. p. 109, 110

University of Nevada, 1963 July p 84 University of New Hampshire, 1963 May p 91, 1965 Mar p 61, 62 University of New Mexico, 1963 Sept p 96, 1964 Mar p 71 University of Nijmegen, 1962 Apr p 77 University of North Carolina, 1958 Feb p 22, 1963 May p 69, Aug. p 20 University of Notre Dame, 1956 Apr p 60, 1957 Dec p 112, 1958 July p 52, 1964 Jan p 82, July p 78, 80, 84, 88 University of Okayama, 1958 Mar p 112, 1964 Jan p 73 University of Oklahoma, 1963 Feb p 115, May p 116, 117, 122, 126, July p 60 University of Oregon, 1963 July p 56, 1970 Apr p 90 University of Oslo, 1963 Dec p 92, 1965 Nov p 108 University of Otago, 1962 Nov p 57 University of Oxford, 1957 Oct p 128, 1958 June p 32, Dec. p 70, 1962 June p 60, 1963 Feb p 85, Apr p 147, June p 88, Nov p 112, 1964 Feb p 45, Mar p 101, 117, 70, July p 61, 1965 Mar p 105, 42, 43, May p 89, June p 88, Dec p 27, 50, 1966 July p 74, 1971 Aug. p 20 University of Paday, 1965 May p 31 University of Paris, 1963 Apr p 95, July p 62, Nov p 51, 1965 June p 86, 1966 Nov p 78 University of Pavia, 1977 Oct p 68 University of Pennsylvania, 1949 Apr p 30, 32, 1952 Apr p 42, 1957 Oct p 70, 78, 83, 1958 July p 49, 62, 1960 Sept p 154, 1962 Apr p 77, Aug p 100, 1963 May p 125, Nov p 41, 1964 Jan p 47, Feb p 61, Apr p 96, May p 90, Sept p 205, Oct p 82, Dec p 48, 54, 1965 Mar p 45, Sept p 164, 1966 Feb p 53, May p 93, 95, 1968 Aug. p 93, 1971 Aug. p 23, Oct. p 44, 1973 Jan p 44, Mar p 48, 1974 Oct p 111, Dec p 118, 1975 Oct p 53, 1976 Apr p 55, 1977 Sept p 82, Oct p 127 University of Pennsylvania Museum, 1948 June p 45, 46, 1959 July p 102, 1963 July p 51, 1964 Mar p 40, 42, June p 65 University of Pittsburgh, 1957 June p 74, 1963 Jan p 127, Dec p 46, 1964 Mar p 86, 1965 July p 83, 1966 Sept. p 208 University of Prague, 1964 Nov p 74 University of Rochester, 1950 Mar p 26, 1957 Dec p 114, 1958 Apr p 41, Nov p 128, 130, 1960 Mar p 98, 106, 108, 1962 Mar p 114, Apr p 71, 1963 Feb p 56, 1964 July p 106, 1965 Sept p 58, Oct p 61, 62, 1966 July p 70, 1971 June p 29, Aug. p 47, 1976 Aug. p 81, 82 University of Rome, 1964 Jan p 83, Mar p 39, 1975 Feb p 81 University of San Marcos 1957 Jan p 44, 1958 Dec. p 124, 1965 Oct p 68, 1967 Oct p 27, 1970 Feb p 53 University of São Paulo, 1962 Aug. p. 113, 117, 1964 Apr p 53, 1967 Fcb p 58 University of Sheffield, 1963 Nov p 125 University of Southern California, 1958 Sept p 159, 1973 June p 92 University of Southern Ohio, 1960 Sept p 96 University of Stockholm 1957 Oct p 44, 1963 June p 57, Oct p 28, 31 University of Sydrey, 1964 June p 76, 1965 June p 106 University of Texas, 1958 Feb p 27, May p 38, 1903 Feb p 55, Mar p 102, May p 126

June p 88. Sept p 226 1964 Jan p 33, 82,

Apr p 50, July p 39, 1966 Mar p 53, Sept

p 20s, 1973 Jun p 44

University of Karsas 1958 July p 52, 1763 Apr

University of Ista ibul 1964 Apr p 53

University of Texas McDonald Observatory, 1953 Feb p 20, 1963 Feb p 47, 48, 50, 1978 Apr p 115

University of the Witwatersrand, 1966 Feb p 41, 44, 46

University of Tokyo, 1963 Mar p 58, Dec p 125

University of Toronto, 1958 Mar p 110, May p 99, June p 32, 1963 Aug p 20, 1964 Feb p 54, Dec p 114, 1966 Aug p 86, 1968 Aug p 88; 1973 May p 87

University of Tubingen, 1957 Sept p 198, 1964 Oct p 51, 52, 54, 1965 June p 115, 1972 Nov p 41

University of Uppsala, 1964 July p 27, Aug p 79, 1975 June p 76, 85

University of Utah, 1963 Oct p 119, 1964 Dec p 71, 1970 June p 70, 73, 79, 1971 June p 51 University of Utrecht, 1958 July p 42 University of Vermont, 1964 Mar p 93, 1965

University of Vienna, 1963 Mar p 98 University of Virginia, 1964 Jan p 63, 73, 1977 Aug p 52

University of Washington, 1958 Oct p 84, 1963 June p 124, 53, 1964 Jan p 108, Dec p 71, 1965 July p 55, 57, 1970 Apr p 87, 1971 June p 44, 1977 Feb p 78

University of Waterloo, 1964 Feb p 39, 1974 Nov p 51

University of Western Ontario, 1963 July p 58, 62

University of Wisconsin, 1956 Sept p 111, 1957 Feb p 58, Sept p 214, 1958 May p 87, July p 56, 61, Nov p 117, 39, 1960 Feb p 47, 49, Sept p 73, 1962 Mar p 64, Sept p 151, 163, 166, Nov p 138, 1963 Jan p 127, Aug p 29, 84, Oct p 112, Nov p 112, 1964 Jan p 68, 73, 74, Feb p 35, 56, Sept p 150, Nov p 53, 1965 June p 66, July p 79, Aug p 15, Oct p 78, Nov p 80, 1966 Mar p 58, 1970 Sept p 82, 1974 Dec p 118, 1975 Apr p 57, Aug p 99, 1976 Apr p 55, 1977 Mar p 69, 70, June p 41

University of Wittenberg, 1965 Apr p 110, 113 University of Wurzburg, 1958 Dec p 87 University of Zambia, 1977 Aug p 62 University of Zurich, 1963 July p 101, 103,

1964 June p 60 Unsold, Albrecht, 1949 Oct p 44, 1958 Oct p 47, 1964 Aug p 14, 1967 Aug p 36 Untash-Gal, 1961 Jan p 69 Unwin, Nigel, 1976 June p 40, 46

Unwin, Niget, 1976 June p 40, 40

Upatineks, Juris, 1966 Jan p 48, 1968 Feb
p 40, 1969 Jan p 76, 1971 Dec p 38, 1976

Oct p 80, 92
Updike, John, 1969 Jan p 130
Updike, Stuart J, 1971 Mar p 31
Uphof, J C Th, 1977 May p 102
Upjohn Company, 1952 May p 40, 1953 Aug
p 48, 1963 Dec p 72, 1964 Mar p 48, 1971
Nov p 89, 90

Upton, Francis R, 1959 Nov p 102-104, 108, 110, 112, 114

Urbain, G, 1951 Nov p 30 Urban League, 1951 Sept p 50 Ure, Andrew, 1970 Oct p 115 Uretz, Robert B, 1970 Feb p 10

Uretz, Robert B, 1970 Feb p 102
Urey, Harold C, 1948 Oct p 24, Nov p 24, 1949 Feb p 17, 19, 33, Dec p 14, 15, 30, 1950 Apr p 22, Dec p 54, 1951 June p 51, 1953 Jan p 30, Mar p 74, July p 42, 1954 Aug p 48, Nov p 41, 1956 Apr p 77, Sept p 113, 1958 Feb p 54, June p 86, July p 46, 1959 June p 78, 1960 Apr p 61, May p 61, 62, 79, July p 106, 1961 Nov p 58, 64, 1963 Aug p 52, 1964 Feb p 53, 55 57, 68, 1965

Oct p 29, 1966 Jan p 62, Oct p 30, 44, 1967 Mar p 63, July p 34, Nov p 25, 27, 1968 Oct p 58, 1972 Oct p 81, 1973 July p 68, 1974 Mar p 51

Unbe, Ernest G, 1978 Mar p 121 Urk, A van, 1961 Aug p 83 Ur-Nammu, King, 1953 Jan p 26-28, 1957 Oct

p 83

Ursey, Harold, 1949 July p 42 Urukagina, King, 1957 Oct p 83 Uryson, Pavel, 1954 Apr p 88

Uryson, Pavel, 1954 Apr p 88
U S, see also Argonne National Laboratory,
Brookhaven National Laboratory, Fermi
National Accelerator Laboratory (Fermilab),
Kitt Peak National Radio Astronomy
Observatory, Los Alamos Scientific
Laboratory, National Academy of Sciences,
National Aeronautics and Space
Administration, National Bureau of
Standards, National Science Foundation,
Oak Ridge National Laboratory, Smithsonian
Institution

US Agency for Internal Development, 1963 Sept p 130

U S Agency for International Development, 1970 Jan p 49, July p 112, 1971 May p 46, 1974 Jan p 51, Sept p 64, 1976 Sept p 38

US Air Force, 1949 Jan p 51, 48, Mar p 16, 17, Aug p 25, 1950 Jan p 26, June p 48, 1951 Apr p 32, 1952 Jan p 18, 1953 Apr p 36, May p 70, Oct p 37-39, 41, 1954 Aug p 21, 23, Dec p 41-44, 1955 Aug p 42, Dec p 61, 63, 68, 1956 June p 131, 132, Oct p 56, 1957 Jan p 118, 51, Sept p 108, 1958 Apr p 50, 1959 Jan p 52, Mar p 62, 1960 Aug p 44, 47, 52, Oct p 82, 1961 Feb p 66, Oct p 102, Nov p 78, Dec p 76, 1962 Apr p 50, 1963 June p 124, 130, Sept p 151, 1964 Oct p 28, 1965 Mar p 43, Apr p 25, 66, 73, May p 28, 31, July p 20, 29, 1966 Sept p 188, 1968 May p 38, 41, 44, Aug p 92, Nov p 73, 1969 Apr p 19, 1970 May p 16, 30, Dec p 96, 1972 Nov p 22, 1973 May p 42, July p 36, 42, 48, Aug p 11, Nov p 19, 23-26, 1974 Sept p, 1975 June p 41, 1976 Aug p 82, Nov p 64, 1977 Feb p 26, Mar p 58

U S Air Force Cambridge Research Center, 1955 Sept p 174, 1957 Apr p 138, 139, 1958 Feb p 29, 1961 Aug p 120, 66, 1963 June p 51, 55, 57, 59, Nov p 133 1964 Mar p 71, 1970 Mar p 44

U S Air Force Weather Service, 1953 July p 34, 38, 1954 June p 32, 1975 Sept p 16
U S Air Transport Association, 1968 Dec p 81
U S Arecibo Radio Observatory, 1971 Jan
p 52, 53, 1975 May p 83-85

US Arms Control and Disarmament Agency, 1966 Aug p 40, 1970 May p 15, 15, 56, June p 46, 1971 Mar p 44, Apr p 48, July p 42 1972 Nov p 21, 1974 Apr p 48, Oct p 55, 1975 Mar p 47, Apr p 25, 1976 July p 60

U S Army, 1948 May p 32, 1949 Feb p 29, May p 32, Aug p 14, 25, Sept p 20, 1951 Oct p 36, 1952 Jan p 36, May p 38, 1954 Sept p 112, 1956 Mar p 33, Aug p 58, 1958 Jan p 28, Mar p 52, 1962 Nov p 121, 1963 Apr p 49, Oct p 89, 1964 Jan p 116 118, Dec p 81, 83, 85, 1965 Mar p 95, Apr p 78, May p 39, Nov p 45, 1968 Aug p 22 23, Sept p 113, 1970 Feb p 53, May p 16 18, 21, Sept p 99, Dec p 104, 106, 1973 Aug p 17, 1976 Oct p 29, 1977 Oct p 92, Dec p 89

U S Army Ballistics Research Laboratory, 1949 Apr p 32, 33, Dec p 30, 1964 Jan p 114, Sept p 205 U S Army Chemical Corps, 1953 Feb p 72, 1955 Oct p 50, 1964 Dec p 75, 1970 May p 23

U.S. Army Corps of Engineers, 1948 Dec p 13, 16, 1960 Aug p 83, 85, 94, 1970 May p 44, Dec p 40

U S Army Human Factors Research Branch, 1968 Aug p 93

US Army Map Service, 1956 July p 50, 1966 Apr p 58, 1967 Oct p 76 US Army Ordinance Department, 1964 Sept

p 203, 205 US Army Ordnance Department, 1949 Dec

p 31, 1960 Oct p 136, 137 US Army Ordnance Missile Command, 1963

July p 84 US Army Quartermaster Corps, 1952 Jan

p 31, 1956 Feb p 116
US Army Research Office, 1949 Feb p 2

US Army Research Office, 1949 Feb p 29, 1962 Sept p 206, 220, 1965 Aug p 35, 38, 1972 Aug p 44, 1977 Jan p 80

U S Army Signal Corps, 1949 Jan p 48, 1952 Jan p 18, 19, 1953 July p 35, Aug p 42, Dec p 58, 1954 Feb p 44, June p 29-31, 1956 Nov p 47, 1957 Jan p 47, 1960 Aug p 50, 1964 Mar p 65, 1966 July p 42, 42, 44, 1974 Dec p 97

U S Atomic Development Authority, 1949 Nov p 12

US Atomic Energy Commission, 1948 May p 32, June p 24, 8-10, Aug p 31, Sept p 28, Nov p 24, 25, 1949 Feb p 16, 17, 19-21, 28, Mar p 12, 24, Apr p 17, 26, May p 26, June p 26, 36, 37, July p 26, 31-36, 38, 39, 40-43, Aug p 25, Sept p 27, Oct p 21, 26-28, 27, Dec p 21, 26, 27, 1950 Jan p 26, 28, Mar p 11, 13-15, 24, 26, Apr p 30, May p 13, 26, June p 12, 27, July p 26, Aug p 28, 30, Sept p 44, 46, Oct p 24, Nov p 24, Dec p 26, 29, 30, 1951 Feb p 23, 34, Mar p 28, Apr p 32, 43, 46, 47, 50, May p 20, 34, June p 30, Sept p 45, 50, Nov p 28, 29, Dec p 34, 1952 Feb p 32,34, Mar p 20, 34, 38, June p 19, 21, 40, July p 62, Sept p 70, Oct p 39, Nov p 44, Dec p 36, 58, 1953 Jan p 30, Mar p 44, 45, Apr p 44, 45, 94 96, 98, June p 43, 46, July p 40, Aug p 40, Sept p 72, Oct p 51, Nov p 50 51, Dec p 48, 1954 Mar p 29, 33, 44, 45, Apr p 44, May p 46 48, 52, June p 44, July p 42 46, Aug p 36 Oct p 36, 39, 46, Nov p 31-35, 48, Dec p 33, 34, 37, 39 52, 54, 1955 Feb p 77, Mar p 50, Apr p 34, 46, June p 47 July p 48, 50, Sept p 70 Oct p 27, Nov p 52, 54, Dec p 52, May p 50 52, 1956 Jan p 44, Mar p 48 49, Apr p 60 72 May p 55, Aug p 76 84, Sept p 110 Nov p 60 62, Dec p 108, 54 1957 Jan p 58 64, Mar p 64, May p 62, July p 64 Aug p 56 58 Dec p 84, 1958 Jan p 44 Feb p 40 46 Mar p 50 60 May p 58 July p 50 Aug p 31, 50, Sept p 171, 86 Oct p 54, Dec p 29, 54 1959 Jan p 62, Mar p 60 Apr p 64 May p 68, June p 76 July p 63 Aug p 62 Sept p 103 Oct p 80 1960 Jan p 71 9 02 Sept p 103 Oct p 00 1700 Jain p 71 82 83, 92, Feb p 132 Apr p 88 June p 80 July p 74 76, Oct p 84 Nov p 91 1961 Mar p 80, Apr p 78 May p 74 Aug p 56 62, Nov p 49 1962 Feb p 73 June p 55 July p 70, Sept p 100 Oct p 58 1963 Jan p 59, Mar p 68 Apr p 74 May p 74 July p 64, Sept p 112 116 124 1964 Feb p 53 May p 59, 73 June p 54 Oct p 57 Dec p 62, 1965 July p 20-22 24 Oct p 38 1966 Feb p 46, Mar p 58 June p 95 99 July p 19, 48, 97, Aug. p 40 Sept p 238 Nov p 111, 1967 Feb p 56 Mar p 24, 26 29

June p. 50; 1968 Feb. p. 21-27, 30, 31; June p. 44; Aug. p. 42; 1969 Apr. p. 50; Dec. p. 52; 1970 Feb. p. 19; Mar. p. 34, 60; Apr. p. 45; May p. 44; June p. 47; Aug. p. 44, 48; Nov. p. 13, 15, 18, 19, 21, 15; 1971 Jan. p. 42; Feb. p. 64; June p. 54; Sept. p. 67, 68; Dec. p. 40; 1972 Nov. p. 20, 21; 1973 Jan. p. 14, 18, 44; Aug. p. 43; 1974 Feb. p. 44; July p. 46; 1975 Apr. p. 23; Sept. p. 53; Oct. p. 106, 17; 1976 Jan. p. 25, 28; Nov. p. 29; Dec. p. 36; 1977 Aug. p. 52; 1978 May p. 46.

U.S. Atomic Energy Commission Personnel Security Board (Gray Board), 1948 Sept. p. 28; 1949 Apr. p. 26; 1954 June p. 44; July p. 42; Aug. p. 36.

U.S. Atomic Industrial Forum, 1976 Mar. p. 60A.

U.S. Book Exchange, 1948 Nov. p. 25.

U.S. Borax and Chemical Co., 1970 Dec. p. 107. U.S. Bureau of American Ethnology, 1974 Sept. p. 93.

U.S. Bureau of Customs, 1968 Oct. p. 88. U.S. Bureau of Home Economics, 1974 Nov. p. 116.

U.S. Bureau of Indian Affairs, 1958 Nov. p. 120; 1960 Feb. p. 41, 43.

U.S. Bureau of Internal Revenue, 1952 Mar. p. 36; 1955 Oct. p. 44.

U.S. Bureau of Labor Statistics, 1951 Oct. p. 16, 18-20; 1952 Nov. p. 41; 1954 Nov. p. 54; 1962 Oct. p. 30; 1963 Sept. p. 149; 1966 Apr. p. 27.

U.S. Bureau of Mines, 1948 May p. 32; Aug. p. 32; 1949 Apr. p. 51; Dec. p. 33-35; 1950 June p. 52, 53; 1951 Jan. p. 28; June p. 20; 1952 Jan. p. 36; Feb. p. 15-19; 1953 Sept. p. 76; 1954 July p. 37, 38; Oct. p. 39; 1955 July p. 62, 64, 66; 1956 Oct. p. 46, 48; Nov. p. 79; 1963 Sept. p. 130, 136; 1965 Nov. p. 52; 1966 Feb. p. 24-26, 28, 29; June p. 58; 1971 Sept. p. 39; 1972 Oct. p. 33; 1974 July p. 47; 1977 Apr. p. 26.

U.S. Bureau of Narcotics and Dangerous Drugs, 1970 July p. 50; 1977 Mar. p. 44.

U.S. Bureau of Public Roads, 1965 Sept. p. 143, 148, 164.

U.S. Bureau of Reclamation, 1948 Dec. p. 13; 1969 Apr. p. 50; 1970 Feb. p. 16; 1976 June

U.S. Bureau of Ships, 1949 Apr. p. 40.

U.S. Bureau of the Census, 1948 Dec. p. 9; 1953 Nov. p. 51; 1957 Mar. p. 70; 1962 Oct. p. 30; 1964 Mar. p. 57; July p. 17; Sept. p. 204; 1965 Aug. p. 15, 16; Sept. p. 134, 42, 64; 1966 Sept. p. 193; 1968 Oct. p. 58; 1970 Apr. p. 46; Oct. p. 29, 52; 1971 July p. 17; 1973 Feb. p. 46; Sept. p. 78, 78, 79; 1974 Sept. p. 124, 127, 36; 1975 Jan. p. 19; 1976 Nov. p. 67.

U.S. Center for Defense Information, 1973 May

U.S. Center for Disease Control, 1970 Nov. p. 72; 1976 Oct. p. 30, 31; 1977 July p. 26, 45. U.S. Central Intelligence Agency, 1966 July

p. 38; 1970 May p. 15; 1973 Feb. p. 17. U.S. Chamber of Commerce, 1965 July p. 20; 1970 Mar p 35

U.S. Civil Defense Administration, 1950 Jan. p. 26, Nov p. 24; 1952 Jan. p. 36; 1954 May p 48, 1955 Apr p 46; 1962 May p. 46. US Civil Defense Preparedness Agency, 1976

Oct p 57, Nov p 37 U.S. Civil Service Commission, 1958 Feb. p. 40. U.S. Civilian Conservation Corps, 1960 July

p 134 US Civilian Mobilization Office, 1950 Mar.

p 26 US Coast and Geodetic Survey, 1949 Jan. p 48-50; 1954 Aug p 61, 62; 1955 July p 36;

1956 Dec. p. 85, 86; 1959 Apr. p. 64; 1960 Oct. p. 88; 1961 Aug. p. 58; Oct. p. 146; Dec. p. 54; 1962 May p. 117; June p. 58; 1970 Dec. p. 40; 1971 Dec. p. 80; 1975 May p. 14, 18, 20,

U.S. Coast Guard, 1977 Apr. p. 25; June p. 51. U.S. Congress, 1948 May p. 32; June p. 52, 53; July p. 14; Sept. p. 29; Oct. p. 24; 1949 Feb. p. 28; Oct. p. 26; 1950 Jan. p. 26; June p. 26; 1951 Oct. p. 32; 1953 Sept. p. 51; 1954 Nov. p. 31-35; 1956 Sept. p. 110; 1957 Mar. p. 37; 1958 Apr. p. 49, 50; Oct. p. 52; 1961 July p. 43; 1962 Jan. p. 36; Dec. p. 41; 1963 Feb. p. 45; Mar. p. 130; Aug. p. 25; Sept. p. 240; 1964 July p. 16; 1965 May p. 50; July p. 20, 21, 23, 25; Sept. p. 158, 187; Nov. p. 48; 1966 Sept. p. 100; Nov. p. 65; 1969 Apr. p. 15-25; 1970 Apr. p. 45; May p. 16; July p. 50; Nov. p. 42; 1971 Jan. p. 17; Mar. p. 17; Apr. p. 17; 1972 Jan. p. 73; May p. 48; Sept. p. 170; Nov. p. 18, 19; 1973 Sept. p. 136, 162-164, 166; 1974 Oct. p. 55; 1975 Feb. p. 40; May p. 42; July p. 45; Aug. p. 46; 1976 Nov. p. 27, 64; 1977 Jan. p. 22; Feb. p. 50; June p. 105; Sept. p. 100; Nov. p. 43, 45, 49.

U.S. Congressional Commission on the Organization of the Executive Branch, 1955 Aug. p. 46.

U.S. Congressional Committee on Educational Television, 1951 June p. 15.

U.S. Congressional Office of Technology Assessment, 1978 Mar. p. 70.

U.S. Congressional Research Service, 1978 Apr.

U.S. Consumer Product Safety Commission, 1977 Dec. p. 47, 52.

U.S. Court of Appeals, 1971 Dec. p. 40; 1972 Nov. p. 51.

U.S. Court of Claims, 1962 Feb. p. 81.

U.S. Defense Production Administration, 1953 Apr. p. 44.

U.S. Department of Agriculture, 1948 May p. 32; June p. 25; Aug. p. 10; Dec. p. 27; 1949 Feb. p. 28; May p. 26; Oct. p. 31; 1950 Apr. p. 32; 1951 Aug. p. 42, 44; Sept. p. 60; 1952 May p. 36, 37, 50, 51; Aug. p. 18, 19; Oct. p. 38; 1953 July p. 32, 54, 57; Nov. p. 51; 1954 Mar. p. 29; July p. 28, 26; Dec. p. 54; 1955 Aug. p. 40; Oct. p. 50; 1956 Aug. p. 98, 99; 1957 Jan. p. 58; May p. 112; Dec. p. 66; 1958 Jan. p. 44; Mar. p. 37; Apr. p. 109; July p. 68; 1959 Jan. p. 62, 63; 1960 Mar. p. 63; Oct. p. 54-56, 58-60; Dec. p. 56, 60, 84; 1961 Feb. p. 72; Mar. p. 66; June p. 139; 1963 May p. 101, 102; July p. 64; Sept. p. 79; 1964 Aug. p. 23-25, 27; Dec. p. 75; 1965 July p. 20; Sept. p. 82; 1966 Aug. p. 42; Oct. p. 44, 60; Nov. p. 65; 1968 Sept. p. 182; 1969 May p. 52; Aug. p. 50; 1970 Feb. p. 16, 91, 93; Apr. p. 48; Sept. p. 91; Oct. p. 60; 1972 Feb. p. 44; 1973 May p. 49; Sept. p. 74; Oct. p. 28; 1974 Oct. p. 87; 1975 June p. 18; jan. p. 82; 1976 Apr. p. 61; Sept. p. 40, 47, 103, 66; Oct. p. 108; Nov. p. 64; 1977 Jan. p. 32; Sept. p. 100; Dec. p. 51, 89, 90, 92, 101; 1978 Mar. p. 69.

U.S. Department of Commerce, 1948 May p. 32; July p. 30; 1949 Feb. p. 16, 19-21; 1953 May p. 53; Nov. p. 51; 1955 June p. 48; 1956 Sept. p. 113; 1957 Jan. p. 58; 1959 Jan. p. 62; 1965 Apr. p. 25,33, 56; Aug. p. 30; Sept. p. 143, 172, 181, 182; 1966 Apr. p. 27; 1969 Jan. p. 52; 1970 Dec. p. 40; 1971 Nov. p. 16; 1973 Jan. p. 14; Sept. p. 69; 1974 Nov. p. 20, 21, 1975 Jan. p. 19; 1976 Nov. p. 64; 1977 July p. 28; Dec. p. 48.

U.S. Department of Defense, 1950 Jan. p. 26, 29; June p. 26; July p. 26; 1951 Oct. p. 32;

1952 Jan. p. 35; May p. 42; 1953 Apr. p. 44; Aug. p. 40; Nov. p. 51; 1954 Sept. p. 70; Dec. p. 54; 1955 Aug. p. 46; Dec. p. 52; 1956 Mar. p. 49; Nov. p. 41; 1957 Jan. p. 46, 58; Feb. p. 57; Nov. p. 48; 1958 Jan. p. 44; Feb. p. 40; Mar. p. 52; Apr. p. 50; July p. 46; Sept. p. 171, 172, 86; 1959 Jan. p. 62; May p. 68; 1960 June p. 80; July p. 74; 1961 Apr. p. 78; 1962 Apr. p. 46; May p. 75; Dec. p. 108; 1963 Mar. p. 74; 1964 May p. 59; June p. 26; Oct. p. 33; 1965 Mar. p. 54; Apr. p. 73; July p. 20, 22, 24; 1966 Jan. p. 47; Mar. p. 58; 1968 Mar. p. 21, 23, 24; 1969 Jan. p. 52; July p. 50; 1970 Jan. p. 48; Apr. p. 45; May p. 15, 16, 54; June p. 46; Aug. p. 46; Oct. p. 102; 1971 Jan. p. 17, 25; May p. 45; 1972 Aug. p. 44; Sept. p. 127, 126; Nov. p. 20-22; 1973 Jan. p. 44; Feb. p. 15, 20, 23; Mar. p. 26; June p. 39; Aug. p. 11, 12, 14, 18, 19; Nov. p. 18-21, 23-26; Dec. p. 56; 1974 Mar. p. 44; Apr. p. 48, 49; Oct. p. 55, 56; 1975 Jan. p. 48; Apr. p. 25, 53; Oct. p. 106; 1976 Sept. p. 68; Oct. p. 57; Nov. p. 36, 35, 33, 27, 29, 31, 64; Dec. p. 53; 1977 Apr. p. 22; Aug. p. 25-31; 1978 Mar. p. 69. U.S. Department of Energy, 1978 Jan. p. 39;

Mar. p. 69. U.S. Department of Health, Education and Welfare, 1953 Nov. p. 51; 1954 Dec. p. 54; 1955 Aug. p. 46; 1957 Jan. p. 58; 1958 Jan. p. 44, 45, 46; May p. 56; Sept. p. 88; 1959 Jan. p. 62; 1960 July p. 74; 1963 July p. 64; 1965 July p. 20, 22; 1966 June p. 21; Sept. p. 101; 1967 Feb. p. 56; 1969 Aug. p. 17-19, 21; 1970 Jan. p. 48; Sept. p. 82; 1971 Apr. p. 18, 20, 23, 20, 52; 1972 Oct. p. 25; 1973 July p. 20; Sept. p. 51, 95, 156, 171; 1974 Jan. p. 51; 1975 Feb. p. 21; 1976 Feb. p. 25, 29, 31; Nov. p. 64; 1978 Feb. p. 48, 50; Mar. p. 69.

U.S. Department of Housing and Urban Development, 1965 Sept. p. 148; 1966 May p. 56; 1969 July p. 19, 27; 1972 Sept. p. 150; Oct. p. 25; 1975 Oct. p. 54; 1976 Nov. p. 64. U.S. Department of Interior, 1975 Aug. p. 47.

U.S. Department of Justice, 1950 Aug. p. 28; 1966 Sept. p. 71; 1970 Sept. p. 86.

U.S. Department of Labor, 1951 Sept. p. 49; 1963 Sept. p. 149; 1965 Apr. p. 25; 1966 Apr. p. 27; 1977 Nov. p. 49.

U.S. Department of Public Health, 1952 Mar. p. 38; 1955 Nov. p. 64; Dec. p. 68; 1956 Feb. p. 106; 1962 June p. 79.

U.S. Department of Science and Technology, 1958 Jan. p. 44.

U.S. Department of State, 1948 Dec. p. 27; 1950 Jan. p. 27; July p. 26; 1952 Mar. p. 35; July p. 38; 1955 Sept. p. 72; 1956 Mar. p. 50; Sept. p. 113; 1959 Jan. p. 62; Apr. p. 64; 1961 Feb. p. 68; 1963 Nov. p. 66; 1966 July p. 38, 43, 48; 1968 Oct. p. 58; 1970 Jan. p. 48; May p. 15; 1974 Sept. p. 102; 1975 Feb. p. 15.

U.S. Department of the Interior, 1948 Dec. p. 16; 1957 Jan. p. 58; Mar. p. 41, 42; 1959 Jan. p. 62; 1963 Apr. p. 49; 1965 June p. 98; July p. 42; Nov. p. 50; 1966 Feb. p. 23, 28, 29, 29; Nov. p. 66; 1968 Jan. p. 68; 1970 Feb. p. 89, 91; Sept. p. 190; 1974 Feb. p. 44; 1976 May p. 24; Nov. p. 64.

U.S. Department of the Treasury, 1952 Mar. p. 36; 1962 Mar. p. 95; 1963 Sept. p. 226; 1971 Mar. p. 48; 1973 June p. 16.

U.S. Department of Transportation, 1975 Jan. p. 34-44; Apr. p. 56; 1976 Nov. p. 64. U.S. Economic Cooperation Administration,

1949 June p. 28; 1952 June p. 24. U.S. Electric Power Research Institute (EPRI), 1978 May p. 84.

U.S. Energy Research and Development

Administration, 1975 Apr. p. 26; 1976 Jan. p. 21-25, 27, 28; Mar. p. 60A, 60B; May p. 24, 27, 50; June p. 48; Sept. p. 66; Oct. p. 41; Nov. p. 64; Dec. p. 36, 38; 1977 Mar. p. 58; Apr. p. 22, 57; July p. 59; Aug. p. 57.

U.S. Environmental Protection Agency, 1970 Sept. p. 80; Dec. p. 40; 1971 Aug. p. 47; 1972 Nov. p. 20; 1973 Feb. p. 48; June p. 14-21; 1974 Feb. p. 42; 1975 Jan. p. 34-44; Apr. p. 53; Nov. p. 56; 1976 Nov. p. 64; 1977 Jan. p. 43.

U.S. Environmental Science Services Administration, 1967 Aug. p. 23; 1969 Jan. p. 52, 55, 56, 62, 64, 65, 67, 68; 1970 July p. 80; Sept. p. 63, 188; Dec. p. 40; 1971 Jan. p. 37; Nov. p. 58.

U.S. Federal Arts Project, 1952 July p. 27.
U.S. Federal Aviation Administration, 1960
Dec. p. 47, 51, 52; 1962 Jan. p. 36, 60; 1964
Mar. p. 33; June p. 35; 1965 July p. 20; Sept. p. 143; 1966 Feb. p. 53; Dec. p. 74, 76; 1970
Feb. p. 16, 19; Mar. p. 83; 1973 Oct. p. 101.

U.S. Federal Bureau of Investigation, 1948 May
p. 32; Aug. p. 31; 1949 Feb. p. 16, 18-21; July
p. 26; Aug. p. 25; Oct. p. 28; Dec. p. 28; 1950
Apr. p. 30; June p. 26; 1958 June p. 26; 1974

Aug. p. 56; 1977 July p. 56.

U.S. Federal Communications Commission, 1948 Dec. p. 26; 1950 Oct. p. 25; Dec. p. 13; 1951 Jan. p. 27; May p. 34; June p. 15, 16, 17; July p. 28; Dec. p. 34; 1952 Mar. p. 42; 1953 Dec. p. 46; 1954 Apr. p. 67-69; 1961 Sept. p. 84; 1963 July p. 66; 1964 Apr. p. 62; 1966 Sept. p. 101; 1971 Oct. p. 25, 28, 29; 1972 Sept. p. 168.

U.S. Federal Council on Environmental Quality, 1970 Apr. p. 44; 1971 Mar. p. 48.

U.S. Federal Government, 1949 May p. 26; June p. 11-14; Aug. p. 28; Dec. p. 27; 1950 Apr. p. 51; 1954 Dec. p. 54; 1956 May p. 41; 1957 Nov. p. 46, 47; 1958 Sept. p. 170-172, 176; 1959 Mar. p. 60; 1960 Feb. p. 38-41, 43, 44; Dec. p. 47; 1961 Apr. p. 47; July p. 39, 41, 45; Sept. p. 92; 1962 Apr. p. 50; 1963 Aug. p. 19, 22, 25; Sept. p. 226-228, 232, 58; 1964 June p. 25; Sept. p. 86; 1965 Apr. p. 25,33; July p. 19-22, 25; Aug. p. 30; Sept. p. 136, 143, 144, 146, 148, 158, 165, 195, 202, 204; Nov. p. 22; 1966 Sept. p. 67, 68; Dec. p. 76; 1967 June p. 21, 20; 1970 Jan. p. 19-29; Feb. p. 19, 20, 42; Apr. p. 44; Sept. p. 80; 1971 Apr. p. 17, 20, 23; May p. 44; Sept. p. 44; Nov. p. 15; 1973 June p. 14-17, 21; Sept. p. 132, 136, 140-142, 146, 148, 156, 158, 159, 163, 169, 171, 173, 174; 1975 Apr. p. 53; 1976 Sept. p. 118; Dec. p. 29, 25, 27, 40; 1977 Apr. p. 57; June p. 106; July p. 26, 31; Oct. p. 34; Nov. p. 49-51.

U.S. Federal Power Commission, 1978 Jan. p. 64.

U.S. Federal Radiation Council, 1959 Oct. p. 80; 1962 July p. 71; 1963 Aug. p. 48; 1964 Oct. p. 28; 1967 Mar. p. 29.

U.S. Federal Railroad Administration, 1973 Oct. p. 18, 24.

U.S. Federal Reserve System, 1966 Nov. p. 40. U.S. Federal Security Administration, 1948 Oct. p. 24; 1950 Apr. p. 31; Nov. p. 26; 1952 June p. 24.

U.S. Federal Trade Commission, 1950 May p. 29; Aug. p. 30; 1956 July p. 48; 1964 Feb. p. 67; 1973 Sept. p. 162.

U.S. Federal Water Pollution Control Administration, 1968 Sept. p. 92; 1969 Mar. p. 19, 24, 26; 1970 May p. 48.

U.S. Fish and Wildlife Service, 1949 Oct. p. 18; 1953 May p. 82; 1955 Jan. p. 65; Apr. p. 38; 1957 Dec. p. 51; 1958 Aug. p. 49, 95; 1959

Dec. p. 84; 1961 Apr. p. 108; 1962 Sept. p. 206; 1964 Feb. p. 94; 1970 Apr. p. 77; May p. 44; Dec. p. 18; 1972 Sept. p. 69.

U.S. Food and Drug Administration, 1949 Feb. p. 29; Apr. p. 18; Aug. p. 25; Oct. p. 27; 1950 May p. 28; July p. 29; 1952 Sept. p. 72; Oct. p. 44; 1956 Oct. p. 71; 1962 Aug. p. 29, 30, 34, 35; 1963 July p. 64; Oct. p. 54; 1964 Apr. p. 36; 1966 June p. 56, 97; Aug. p. 42; Oct. p. 44; 1970 July p. 50; Sept. p. 169, 86; 1971 May p. 20; 1972 Aug. p. 46; 1973 Sept. p. 112, 162-166; 1975 Mar. p. 99; Apr. p. 49; 1976 Feb. p. 25, 31.

U.S. Forest Service, 1948 Aug. p. 8; 1953 May p. 84; 1954 Jan. p. 31; 1955 Oct. p. 50; 1966 Feb. p. 99; 1970 Oct. p. 92, 97; 1978 Mar. p. 93

U.S. General Accounting Office, 1977 Mar.

p. 58; July p. 56; 1978 Jan. p. 64; Feb. p. 49. U.S. Geological Survey, 1948 May p. 32; 1949 Jan. p. 48, 50; 1950 Jan. p. 30; Nov. p. 15; 1951 May p. 20; 1952 Jan. p. 49; Feb. p. 24; 1954 Oct. p. 36, 38, 39; 1956 Sept. p. 116; Oct. p. 47; 1958 Feb. p. 59; July p. 30; 1960 Oct. p. 140; 1961 June p. 156, 161; Aug. p. 51, 54, 55; Nov. p. 60; 1962 Sept. p. 170, 173, 182, 71; Oct. p. 42; 1963 Mar. p. 48; June p. 43; Sept. p. 114, 116, 118, 120, 124, 132, 136; 1964 Feb. p. 50, 51; Apr. p. 107; Dec. p. 38, 41; 1965 July p. 19; Oct. p. 26, 32, 34; Nov. p. 53; 1966 Feb. p. 27; June p. 60; 1967 Jan. p. 60; June p. 95, 99; 1969 Mar. p. 20, 21; 1970 May p. 45; Sept. p. 176, 184; Dec. p. 40; 1971 Feb. p. 53; May p. 18; Sept. p. 64, 66, 135; Nov. p. 58; 1973 Mar. p. 48; 1974 June p. 52; 1975 Feb. p. 43; Sept. p. 67; 1976 Oct. p. 113; Dec. p. 119; 1977 Jan. p. 85, 94; Mar. p. 100, 102; Aug. p. 60, 67; Oct. p. 93.

U.S. Government Nuclear Regulatory Commission, 1976 Dec. p. 30, 37.

U.S. Government Printing Office, 1978 Apr.

U.S. Hoover Commission on the Organization of the Executive Branch of the Government, 1949 Feb. p. 29.

U.S. House Appropriations Committee, 1951 Oct. p. 32.

U.S. House Armed Services Committe, 1974
Oct. p. 55.

U.S. House Committee on Government Operations, 1954 Sept. p. 70; 1956 Sept. p. 113; 1966 Mar. p. 58.

U.S. House Committee on Science and Astronautics, 1960 June p. 82; 1961 Aug. p. 62; 1962 May p. 75; 1966 Dec. p. 57; 1970 Feb. p. 13.

U.S. House Committee on Science and Technology, 1966 Dec. p. 57; 1977 Oct. p. 34.

U.S. House Committee on Un-American Activities, 1948 Sept. p. 28; 1949 Feb. p. 16, 18-21; 1950 Jan. p. 27; 1954 July p. 42.

U.S. House of Representatives, 1954 Mar. p. 44; 1961 July p. 39; 1965 Nov. p. 22, 23, 25; 1966 July p. 48; 1971 July p. 25; 1974 Oct. p. 55.

U.S. House Rules Committee, 1948 July p. 30; 1949 Dec. p. 27.

U.S. House Special Committee to Investigate Tax-Exempt Foundations and Comparable Organizations, 1954 Sept. p. 70; 1955 Feb.

U.S. House Special Subcommittee on Government Information, 1958 July p. 46. U.S. House Ways and Means Committee, 1971 Apr. p. 21.

U.S. Housing and Home Finance Agency, 1965 Sept. p. 148, 195, 197.

U.S. Hydrographic Office, 1949 Apr. p. 40; 1955

July p. 37.

U.S. Internal Revenue Service, 1966 Feb. p. 29. U.S. Joint Congressional Commission on Mental Health, 1978 Feb. p. 47.

U.S. Joint Congressional Committee on Atomic Energy, 1948 May p. 32; 1949 Mar. p. 24; July p. 26; Aug. p. 25; Sept. p. 27; Dec. p. 27; 1950 Jan. p. 26, 27; Mar. p. 24; May p. 26; June p. 12, 13, 14; July p. 26; Aug. p. 28; 1951 May p. 34; 1953 Jan. p. 30; Apr. p. 46; May p. 53; June p. 43; 1954 Apr. p. 44; July p. 44; Sept. p. 71; Oct. p. 46; 1955 Apr. p. 46; July p. 49; Dec. p. 52; May. p. 50; 1956 Mar. p. 48; 1957 May p. 62; Aug. p. 56; 1959 May p. 68; June p. 76; 1960 June p. 80; 1961 Aug. p. 60; 1962 July p. 73.

U.S. Joint Congressional Committee on Food Additives, 1972 Mar. p. 21.

U.S. Library of Congress, 1955 Sept. p. 74; 1966 Sept. p. 224.

U.S. Marine Biological Laboratory, 1948 July p. 30.

U.S. Medicaid, 1974 Feb. p. 45; 1977 Jan. p. 23; Apr. p. 52; 1978 Feb. p. 51, 52.

U.S. Medicare, 1973 Sept. p. 95; 1974 Feb. p. 45; 1977 Apr. p. 52; 1978 Feb. p. 51, 52; Mar. p. 69.

U.S. Medicare and Medicaid, 1970 Apr. p. 15, 19; 1971 Apr. p. 18, 20, 23-25.

U.S. Metric Board, 1970 Oct. p. 52; 1976 Mar. p. 60A.

U.S. National Accelerator Laboratory, 1971 Apr. p. 50; July p. 104; Sept. p. 75; 1972 Jan. p. 46; July p. 51.

U.S. National Advisory Committee for Aeronautics, 1948 May p. 32; 1950 June p. 48; 1953 Oct. p. 36, 37, 39, 41; Nov. p. 51, 67; 1954 Dec. p. 54; 1957 Jan. p. 58; 1958 Jan. p. 36; Sept. p. 86; 1959 Mar. p. 61; 1961 Apr. p. 78; 1964 June p. 25; 1969 Apr. p. 66.

U.S. National Air Pollution Control Administration, 1970 Nov. p. 44.

U.S. National Astronomical Observatory, 1958 May p. 54.

U.S. National Bureau of Economic Research, 1975 Jan. p. 18-20, 22-23.

U.S. National Bureau of Standards, 1948 May p. 32; 1953 June p. 74; 1966 Apr. p. 28; 1977 Dec. p. 53.

U.S. National Cancer Institute, 1948 July p. 30; Dec. p. 27; 1949 Jan. p. 14; Nov. p. 30; 1956 Sept. p. 120; 1957 Dec. p. 122; 1960 June p. 86; 1963 Oct. p. 55; 1964 May p. 91, 92, 94, 96; July p. 68; 1965 July p. 56; 1966 Apr. p. 48; 1970 Apr. p. 78; 1973 Oct. p. 32; 1976 Dec. p. 109; 1977 May p. 64, 73.

U.S. National Center for Atmospheric Research, 1971 Jan. p. 34; Apr. p. 97; 1974 Oct. p. 58.

U.S. National Center for Health Statistics, 1962
 Oct. p. 30; 1966 June p. 22; 1968 Apr. p. 49;
 1971 Apr. p. 52; 1972 Jan. p. 50; Aug. p. 45.

U.S. National Commission for Environmental Protection, 1966 May p. 52. U.S. National Commission for Manpower

Policy, 1977 Nov. p. 45. U.S. National Commission for U.N.E.S.C.O.,

U.S. National Confidence for U.S. National Confidence of Technology

U.S. National Commission on Technology, Automation and Economic Progress, 1966 Mar. p. 54; Apr. p. 25.

U.S. National Commission on the Causes and Prevention of Violence, 1970 Feb. p 42.

U.S. National Committee for the Development of Scientists and Engineers, 1956 May p. 54; Sept. p. 118.

U.S. National Committee for the I.G.Y., 1957

- Dec p 39, 42, 1958, May p 56 US National Committee on International
- Trade Documentation, 1968 Oct p 88 US National Committee on Mental Health, 1964 Jan p 55
- US National Committee on Radiation Protection and Measurement, 1957 Mar p 68, 1959 June p 76, Dec p 80
- US National Conference of States on Building Codes and Standards, 1971 Mar p 23
- U S National Conference on Weights and Measures, 1971 Mar p 23
- US National Dental Institute, 1957 Dec p 109, 114, 1963 Apr p 106, 1964 July p 83, 1968 Aug. p 46, 1978 Feb p 97
- US National Earthquake Information Service, 1977 Dec p 71
- US National Environmental Laboratories, 1970 Sept p 80
- US National Environmental Satellite Service, 1970 Dec p 40
- US National Foundation on the Arts and the Humanities, 1966 Sept. p 102
- US Nauonal Geophysical and Solar Terrestrial Data Center, 1977 Aug p 64
- US National Guard, 1951 July p 28, 1976 Nov p 33
- US National Heart and Lung Institute, 1948 May p 33, July p 30, 1952 July p 42, 1957 Dec p 54, 1962 Mar p 64, 1965 Nov p 39, 1970 Feb p 44, 1972 Aug. p 46, 1975 Apr p 57, June p 26
- US National Highway Traffic Safety Administration, 1973 Feb p 78, 80
- US National Institute for International Medical Research, 1959 Sept p 102
- US National Institute for Occupational Safety and Health, 1977 July p 26
- US National Institute of Allergy and Infectious Disease, 1960 Sept p 106, 1977 Oct p 97
- US National Institute of Arthritis and Metabolic Disease, 1962 Mar p 63, 1971 Mar p 33
- US National Institute of Arthritis, Metabolism and Digestive Diseases, 1977 Mar p 47, Aug p 111, 1978 Jan p 86
- US National Institute of Child Health and Human Development, 1971 Nov p 37, 1972 Oct. p 71, 1974 Sept p 112
- US National Institute of Education, 1972 May p 48
- US National Institute of Mental Health, 1948 Sept p 28, 1952 Nov p 21, 1953 Dec p 32, 1954 Jan p 56, 1962 May p 47, Aug p 71, 1965 July p 52, 1966 Nov p 135, 136, 1967 Oct p 27, 1968 Feb p 96, 98, 1970 Apr p 94, 1971 May p 50, 1972 Sept p 160, Dec p 77, 81, 1973 p 97, 99, 100, 103, Aug, p 96, Sept p 119, 120, 1976 Oct p 105, 1977 Aug, p 115, 119, Oct p 104, 1978 Feb p 48, 51-53, 97
- US National Institute of Neurological Diseases and Blindness, 1958 Aug. p. 94, 1965 July p. 55
- US National Institute of Neurological Diseases and Stroke, 1970 July p 42, 1971 Feb p 46, 1973 Aug. p 90 1978 Feb p 96
- 1973 Aug. p 90 1978 Feb p 96 US National Institute on Drug Abuse, 1977 Nov. p 75
- U.S. National Institutes of Health, 1950 Dec p. 29, 1953 June p. 41, Sept. p. 65, 1956 Nov p. 62. Dec. p. 136, 1957 Sept. p. 188, 1958 Apr. p. 43. May p. 52, Sept. p. 171, 88, Dec. p. 115, 1959 Jan. p. 45, 1960 Mar. p. 93, Nov p. 66, 1961 Jun. p. 75, 1962 Mar. p. 118, 63,

- May p 58, 90, July p 80, Aug. p 63, Oct p 51, 1965 July p 20, 23, 24, Sept p 82, 1966 Mar p 34, 37, 58, June p 45, Aug. p 56, 86, Nov p 134, 1968 Oct p 67, 75, Nov p 34, 1970 Apr p 86, July p 42, Aug p 38, Oct p 44, 48, 1971 Jan p 47, Feb p 46, Apr p 18, 24, June p 51, July p 57, Aug. p 53, Nov p 50, 1972 Apr p 65, Aug. p 45, 1973 July p 19, Aug p 96, Sept p 141, 146, 1974 Nov p 67, 1975 July p 45, 1976 Feb p 25, 29, 30, May p 50, Aug p 42; Dec p 111, 1977 Jan p 51, 53, Mar p 54, Apr p 49, 50, May p 54, 64, 69, June p 103, July p 22, 26, 28, 31-33, Sept. p 100, 1978 Mar p 69, June p 78
- U'S National Kidney Foundation, 1973 Mar p 45
- U.S. National Library of Medicine, 1966 Sept p. 231, 232, 240
- US National Marine Fisheries Service, 1970 Dec p 40, 1972 Sept p 69
- US National Microbiological Institute, 1960 Dec p 91, 92
- U S National Multiple Sclerosis Society, 1970 July p 40, 42, 46
- US National Museum of Art, 1960 May p 118, 1974 Dec p 97
- U S National Naval Medical Center, 1978 Apr p 65
- U.S. National Oceanic and Atmospheric Administration, 1953 Aug p 38, 1970 Dec p 40, 1971 Mar p 46, 1972 Sept p 69, 1973 July p 90, 1974 Aug p 16
- US National Oceanographic Instrumentation Center, 1970 Dec. p. 40
- US National Office of Vital Statistics, 1960 Sept p 208
- U.S. National Park Service, 1948 Dec. p. 13, 1949 Jan. p. 48, 1955 Jan. p. 62, 1960 July p. 134, 135
- US National Research Council, 1948 May p 33, Oct p 25, Dec p 13, 26, 1949 July p 26, Nov p 30, 1950 Mar p 31, 1951 Aug p 44, Sept p 60, Dec p 34, 1952 Jan p 35, Mar p 38, Sept p 72, Oct. p 44, 1953 Mar p 52, 1954 Apr p 45, 1956 Jan p 45, Sept p 111, Oct p 71, 1957 May p 63, 1959 Apr p 63, 1961 May p 82, 1965 July p 46, 1966 Mar p 57, Aug p 42, 1968 Oct p 58, 1972 Apr p 56, 1973 Sept p 97
- U S National Scientific Balloon Facility, 1974 Oct p 58
- U.S. National Scientific Register Project, 1950 Sept. p. 46, 1951 Dec. p. 34
- US National Security Council, 1950 Jan p 26, Mar p 26, Sept p 46, Nov p 24, 1962 May p 46, 1966 July p 38, 1970 May p 15 15 16, 1975 Oct p 106
- U.S. National Synchrotron Light Source 1977 June p. 37, 41
- U S National Water Commission, 1974 Aug. p 16
- U.S. Naval Air Development Center 1962 Feb p 60, 62-64
- U.S. Naval Electronics Laboratory, 1955 July p. 36, 38–39, 1960 May p. 64, Oct. p. 103, Dec. p. 70, 1962 Apr. p. 145, Aug. p. 47–1963 Apr. p. 98
- U.S. Naval Medical Research Laboratory 1964 Oct p 102, Dec p 51 56, 1966 Mar p 27
- US Naval Observatory, 1957 Feb p 77, 1960 Apr p 61, 1965 June p 46, July p 19 1977 Feb p 30
- U.S. Naval Oceano raphic Office, 1975 Aug. p. 82

ance Laboratory, 1957 Aug. 5-p 68-1564 Jun. p-116, 1565

- Oct p 33, 1970 July p 94, 1971 Mar p 47, 1976 Oct p 79A.
- US Naval Weapons Center, 1977 Apr p 28 US Navy, 1949 Feb p 29, 44, Apr p 40, Aug. p 25, 1950 June p 48, 1952 Apr p 19, 1953 Apr p 98, Nov p 31, 33, 34, 1954 Apr p 44, Dec p 36, 1955 Feb p 72, Aug p 42, Sept p 115, 50, 55, 1956 Jan p 45, July p 63, Sept. p 118, Dec p 87, 84, 1957 Jan. p 47, 50, June p 80, 1958 Sept p 172, 1959 Oct p 81, 1960 May p 96, Aug. p 52, Oct p 60, 82, 1961 Feb p 132, 1962 May p 126, Sept p 170, 1963 Apr p 78, 1964 Jan p 84, May p 64, Dec p 32, 1965 Mar p 95, Nov p 59, 1966 Mar p 28, 30, Aug p 60, 66, 67, Oct p 106, Dec p 69, 1970 Sept p 86, 1971 Aug p 17, Dec p 88, 1972 July p 15, 21-23, 1975 May p 42, June p 41, 1977 Feb p 21, 22, 26, Mar p 58
- see also US Office of Naval Research US Navy Bureau of Aeronautics, 1953 Oct. p 41, 1955 Aug p 29, 32
- U S Navy Hydrographic Office, 1955 Sept p 102, 1958 Aug. p 92
- US Navy Nautical Almanac Office, 1964 Nov
- p 108 US Navy Radiological Defense Laboratory,
- 1957 June p 80, 1966 June p 99 U S Navy Training Device Center, 1970 June
- U S Nuclear Regulatory Commission, 1976 Jan p 56, Nov p 64, 1977 July p 56, 1978 Apr p 51, 57
- US Office of Business Economics, 1965 Apr
- p 33U S Office of Civil Defense Mobilization, 1962July p 70
- US Office of Defense Mobilization, 1951 June p 30, 1952 Mar p 34, 1953 June p 52
- US Office of Economic Opportunity, 1966 Oct p 19, 1970 Feb p 96, 1971 Apr p 24, 1972 Oct p 19, 21, 25, 1973 July p 20
- US Office of Education, 1951 Sept p 48, Dec p 34, 1952 Mar p 36, 1957 Oct p 56, 1958 Apr p 48
- U S Office of Emergency Preparedness, 1973 Mar p 48
- U S Office of Management and Budget, 1978

 June p 78
- US Office of Naval Research, 1948 May p 32 1949 Feb p 11-15, Apr p 40, June p 30, 38. July p 41, 44, 1950 Aug. p 44, 1951 May p 28, 1952 Jan p 18, 19, June p 52, Aug. p 34, 1953 July p 32, 1955 Jan p 25, Sept p 109, 112, 127, 1956 Apr p 47, 93, 95, 100, 102, May p 112, Oct. p 56, 56, 57, 61, 64, Nov p 41, 62, 1957 Feb p 79, May p 51, Sept p 108, Nov p 67, Dec p 38, 40, 1958 Jan p 27, 28, Apr p 27 50, Aug. p 50, Dec p 42, 43, 1959 May p 69, Aug p 60, 66, 1960 Jan p 47, 50, May p 67, Dec p 107, 1961 May p 61, June p 80, 1962 Feb p 56, Mar p 134, July p 61, 1963 Feb p 115, lug p 29, 1964 June p 37, July p 39, 1965 Apr p 72-73, July p 28, Dec p 42, 1966 Mar p 107, Nov p 111, 112, 1969 Sept p 228, 1970 Jan p 118, 41, June p 52, 1971 Jan p 37, Dec p 25, 1973 July p 48, Oct. p 72 1975 Sept p 44
- US Office of Science and Technology, 1945 Nov. p. 24, 1965 July p. 20, Nov. p. 52, 1965 Oct. p. 55, 1969 Oct. p. 46, 1970 Feb. p. 20, May p. 15, 16, Sept. p. 175, 1971 Sept. p. 191, 1973 Mar. p. 44
- US Office of Strategic Information 1955 Mar p 51, June p 43, 1926 Sept p 113 US Office of Technology Assessment and

Forecast, 1972 May p. 48; 1973 July p. 46; 1975 Nov. p. 58.

U.S. Office of Vocational Rehabilitation, 1958 Sept. p. 88.

U.S. Office of War Information, 1956 Dec. p. 36,

U.S. Patent Office, 1949 May p. 27; 1953 June p. 46; 1958 Dec. p. 54; 1973 July p. 46.

U.S. Post Office, 1953 May p. 53; 1971 Apr. p. 56.

U.S. Postal Service, 1976 Dec. p. 26.

U.S. President's Science Advisory Committee. 1949 May p. 26; 1958 May p. 50; 1959 Feb. p. 58; Mar. p. 60; July p. 62; 1961 Jan. p. 78; Mar. p. 80; Sept. p. 84; Nov. p. 78; Dec. p. 76; 1963 July p. 64; 1965 Aug. p. 43; 1966 Nov. p. 115; 1967 Apr. p. 50; 1970 May p. 54; 1973 Mar. p. 44; 1974 Sept. p. 168; 1976 Sept. p. 36, 172, 174.

U.S. Project Head Start, 1968 Sept. p. 91; 1974 Aug. p. 56.

U.S. Public Health Service, 1948 May p. 32, 33; July p. 30; Sept. p. 28, 29; Oct. p. 8, 12; Dec. p. 27; 1949 Feb. p. 29; Apr. p. 27; May p. 26; July p. 44; Sept. p. 20; Oct. p. 28; Nov. p. 30; 1950 Jan. p. 26; Dec. p. 29; 1952 Jan. p. 30, 35; Mar. p. 20; May p. 37; June p. 24, 25; Aug. p. 32; Oct. p. 22, 25; 1953 Aug. p. 48; 1954 Apr. p. 44; 1956 Jan. p. 52; Sept. p. 118; Dec. p. 60; 1957 Mar. p. 37, 70; 1958 Jan. p. 46, 62; Aug. p. 29, 94; Sept. p. 88; Dec. p. 124; 1959 Jan. p. 43, 45; Apr. p. 67; May p. 68; Aug. p. 62, 65; Oct. p. 80; 1960 July p. 79; Nov. p. 65; 1961 Jan. p. 79; Sept. p. 92; Oct. p. 57; Nov. p. 79; Dec. p. 72; 1962 Oct. p. 30; Nov. p. 69; Dec. p. 43; 1963 May p. 74; Aug. p. 20; Nov. p. 43; 1964 Jan. p. 27; May p. 64; Nov. p. 58; 1965 June p. 98; July p. 95, 97; Sept. p. 179, 184, 187; 1966 Nov. p. 102; 1967 Feb. p. 60; May p. 58; Oct. p. 48; 1970 Feb. p. 19; Oct. p. 99; 1971 Apr. p. 24; June p. 59; 1973 June p. 14; Sept. p. 78; 1978 Feb. p. 81, 84.

U.S. Rubber Company, 1953 July p. 33; 1960 Mar. p. 90.

U.S. Scientific Manpower Commission, 1951 Feb. p. 30; 1954 Aug. p. 38.

U.S. Scientist's Committee on Security, 1956 Oct. p. 68.

U.S. Selective Service, 1948 Aug. p. 31; 1949 Feb. p. 29; 1951 Sept. p. 48; 1954 Aug. p. 38. U.S. Senate, 1948 June p. 7; 1956 Aug. p. 49; 1970 May p. 16; 1977 Feb. p. 29.

U.S. Senate Advisory Committee on Color Television, 1950 Dec. p. 13-15.

U.S. Senate Appropriations Committee, 1949 July p. 26; 1951 Oct. p. 32; 1975 Apr. p. 53. U.S. Senate Commerce Committee, 1975 Nov.

p. 58.

U.S. Senate Committee on Government Operations, 1958 Jan. p. 44.

U.S. Senate Foreign Relations Committee, 1966 Aug. p. 40; 1970 May p. 23; 1973 Aug. p. 42; 1975 Mar. p. 47; 1976 Nov. p. 27, 29.

U.S. Senate Labor and Public Welfare Committee, 1952 Apr. p. 36; 1971 Apr. p. 23; 1975 July p. 45.

U.S. Senate Public Works Committee, 1969 Mar. p. 26; 1970 Sept. p. 80.

U.S. Senate Small Business Committee, 1953 May p. 53; June p. 44; Aug. p. 41.

U.S. Social Security Administration, 1971 Apr. p. 21, 24.

U.S. Steel Corporation, 1952 Jan. p. 50, 53; Sept. p. 62, 63; 1954 Jan. p. 25; 1963 Aug. p. 77, 78; Sept. p. 136; Dec. p. 88; 1965 Mar. p. 36; May p. 42; 1966 Feb. p. 76; 1968 Aug.

p. 46; 1975 Apr. p. 117.

U.S. Strategic Air Command, 1962 Apr. p. 46; 1964 Oct. p. 33; 1976 Nov. p. 35.

U.S. Strategic Bombing Survey, 1949 Mar. p. 13, 14, 16.

U.S. Supreme Court, 1949 Aug. p. 25; 1950 Jan. p. 30; 1951 July p. 28, 30; 1962 Oct. p. 30; 1970 Jan. p. 50; 1971 Feb. p. 46; Oct. p. 28, 29; 1973 Mar. p. 44; 1975 Feb. p. 41; 1977 Jan. p. 22.

U.S. Tennessee Valley Authority, 1948 May p. 32; 1951 Feb. p. 36; 1970 Mar. p. 34; 1971 Sept. p. 149.

U.S. Urban Renewal Authority, 1965 Sept. p. 196.

U.S. Veterans Administration, 1949 Feb. p. 29; Mar. p. 26; 1951 Sept. p. 45; 1952 Mar. p. 42; 1956 Nov. p. 62; 1960 Nov. p. 64; 1961 Apr. p. 78; 1964 Jan. p. 47; May p. 91.

U.S. Walter Reed Army Medical Center, 1957 Mar. p. 68; 1958 Oct. p. 96; 1960 Dec. p. 92; 1962 Aug. p. 118; 1963 Feb. p. 57; 1964 July p. 80; Dec. p. 85; 1965 July p. 99; 1966 July p. 32; 1971 Dec. p. 33.

U.S. War Department, 1949 May p. 11-15; 1963 Mar. p. 126.

U.S. War Production Board, 1948 May p. 56. U.S. Weather Bureau, 1949 Jan. p. 48; Oct. p. 14; 1950 Apr. p. 51; June p. 48; Sept. p. 48; 1952 Oct. p. 27, 30; 1953 Apr. p. 34; July p. 38; 1955 Aug. p. 40, 42, 44; 1957 Apr. p. 147; Aug. p. 35; Sept. p. 108; 1958 May p. 31, 33-37; 1960 Sept. p. 98; 1961 July p. 80, 82; 1962 Sept. p. 128, 91, 94; 1963 June p. 53; Aug. p. 94; 1964 Mar. p. 64; May p. 43; Sept. p. 216; Oct. p. 69; Dec. p. 30-32; 1965 Mar. p. 95; 1968 Dec. p. 78; 1969 Jan. p. 52; 1970 Dec. p. 40.

U.S. White House Conference on Children and Youth, 1966 Aug. p. 56; 1974 Aug. p. 55, 60. U.S. White House Conference on International

Cooperation, 1966 Jan. p. 46.

U.S. Works Progress Administration, 1949 Nov. p. 29; Dec. p. 56; 1952 June p. 24.

U.S. Yellowstone National Park, 1966 Dec. p. 108; 1977 Aug. p. 60. Usconbuts, 1960 Nov. p. 166. Usher, Abbott P., 1971 Feb. p. 101.

U.S.-Liberia Radio Corporation, 1961 Sept. p. 85.

Ussher, James, Archbishop, 1949 Aug. p. 50; 1954 Jan. p. 69; 1959 Nov. p. 167, 173; 1960 Sept. p. 113; 1974 Jan. p. 69.

Ussing, Hans H., 1960 Dec. p. 149; 1962 Aug.

Ussing, Marie J., 1953 June p. 41.

U.S.S.R. Academy of Sciences, 1949 Dec. p. 42; 1953 Sept. p. 74; 1955 Feb. p. 62; May. p. 51; 1958 Feb. p. 42; 1960 July p. 50; Dec. p. 65; 1961 Jan. p. 80, 92; Feb. p. 68, 97; June p. 84; 1962 Sept. p. 126; 1966 Aug. p. 40; Nov. p. 39; 1969 Apr. p. 48; 1970 Nov. p. 52, 69; 1971 Feb. p. 51, 53; June p. 37; 1975 Apr. p. 70; May p. 83; 1977 May p. 66.

U.S.S.R. Administration of Navigational Safety, 1963 Aug. p. 97.

U.S.S.R. Commissariat of Agriculture, 1962 Nov. p. 45, 46.

U.S.S.R. Committee for the Exploration of the Stratosphere, 1957 Nov. p. 67.

U.S.S.R. Crimean Astrophysical Observatory. 1964 Aug. p. 18; 1966 Nov. p. 62; 1974 Dec. p. 43.

U.S.S.R. Electron Accelerator Center, 1973 Oct.

U.S.S.R. Gorky University, 1975 May p. 83. U.S.S.R. Hermitage Museum, 1965 May p. 101, 102.

U.S.S.R. I. V. Kurchatov Institute of Atomic Energy, 1972 July p. 66, 70, 72; 1975 Mar.

U.S.S.R. Institute for High Energy Physics, 1968 Sept. p. 84.

U.S.S.R. Institute for High Energy Research, 1970 Oct. p. 107.

U.S.S.R. Institute for Problems of Information Transmission, 1971 June p. 37. U.S.S.R. Institute for the Study of Poliomyelitis,

1956 July p. 48. U.S.S.R. Institute of Chemical Physics, 1971

Oct. p. 92.

U.S.S.R. Institute of Control Science, 1974 Nov. p. 52.

U.S.S.R. Institute of Health of Children and Young Persons, 1968 Jan. p. 24.

U.S.S.R. Institute of High Pressure Physics, 1965 May p. 40; June p. 106, 108.

U.S.S.R. Institute of Nuclear Problems, 1956 July p. 48.

U.S.S.R. Institute of Physics of the Earth, 1975 May p. 17.

U.S.S.R. Ioffe Institute, 1971 July p. 32. U.S.S.R. Joint Institute for Nuclear Research. 1960 Jan. p. 94; 1966 July p. 74, 77; 1976 Nov. p. 51.

U.S.S.R. Kurchatov Institute of Atomic Energy, 1969 Dec. p. 51.

U.S.S.R. Lebedev Physics Institute, 1971 Nov. p. 33.

U.S.S.R. Lenin All-Union Academy of Agricultural Sciences, 1962 Nov. p. 41, 43. U.S.S.R. Linear Accelerator Program, 1961 Nov. p. 56.

U.S.S.R. Main Administration for Utilization of Atomic Energy, 1960 Jan. p. 71.

U.S.S.R. Marine Antarctic Expedition, 1962 Sept. p. 115, 118, 128.

U.S.S.R. Mineralogical Institute St. Petersburg, 1965 Oct. p. 26. U.S.S.R. Ministry of Health, 1956 July p. 48;

1962 Oct. p. 48. U.S.S.R. Moscow State University, 1971 Apr.

p. 83, 84.

U.S.S.R. Novosibirsk Accelerator Center, 1971 July p. 101.

U.S.S.R. Scientific Research Institute for Experimental Surgical Apparatus and Instruments, 1962 Oct. p. 48.

U.S.S.R. Serpukhov Institute for High Energy Physics, 1978 Mar. p. 72.

U.S.S.R. Serpukhov Laboratory, 1971 Apr. p. 50; 1974 Aug. p. 46.

U.S.S.R. State Committee for Coordination of Scientific Research Work, 1961 June p. 84.

U.S.S.R. State Committee for Science and Technology, 1969 Apr. p. 48.

U.S.S.R. State Planning Committee, 1969 Apr.

U.S.S.R. Tsniichermet Laboratory, 1963 Dec. p. 79.

U.S.S.R. Washington Embassy, 1957 Dec. p. 39. Utah International, Inc., 1975 Dec. p. 24 Utica Drop Forge & Tool Corporation, 1954 July p. 38.

Utley, Clifton, 1952 June p. 36. Utterback, Nyle, 1968 Oct. p. 51. Uumpopual, 1960 Nov. p. 166. Uwin, Nigel, 1975 Nov. p. 58. Uyeda, S., 1967 Feb. p. 48.

Uyematsu, Tomomasa, 1966 May p. 78.

 \overline{V}

Vacek, M., 1973 Sept p 45 Vachakidze, M A, 1962 Mar p 44 Vachon, Max, 1966 Mar p 99 Vacquer, Victor D, 1968 Dec p 60, 61 Vacquier, Victor D, 1961 June p 156 Vacquier Victor D, 1961 Oct p 148 Vacquier, Victor D, 1961 Dec p 54, 1977 Nov p 129, 135, 136 Vacroux, Andre G, 1975 Aug. p 48 Vagner, Nikolai, 1978 June p 88 Vaiana, Giuseppe, 1975 Sept p 44 Vaimberg, Paya, 1966 Feb p 37 Vainshtein, B K, 1975 Oct p 60 Vakil, Rustom J, 1951 Mar p 31 Valcarcel, Luis E, 1955 Mar p 99 Valdata, M , 1973 Nov p 42 Vale, Wylie, 1977 Dec p 82 Valentine, R. C, 1962 Oct p 60 Valentine, Raymond, 1977 Mar p 81 Valentine, Robin, 1967 Oct p 81, 84, 1973 July p 56, 57 Valera, Eamon de, 1949 Oct p 12-15 Valera, Gerardo, 1965 July p 94 Valerian, Emperor, 1965 Sept p 61, 1974 Dec p 121 Valgo, C Q, 1958 Apr p 71 Vali, W, 1969 Dec p 90 Valkenburg, A von, 1965 June p 101 Vall, Andrew, 1950 Nov p 42 Vallarta, Manuel S, 1949 Apr p 24 Vallee, Bert L , 1955 May p 54, 1959 July p 72, 1964 Dec p 78, 79, 1968 Apr p 49, 1976 May p 64 Valley, George E, 1948 June p 27, 38 Vallois, Henri, 1948 July p 16, 19, 1953 Dec van for names beginning thus, not listed here, see second element e g, for van Beethoven, Ludwig, see Beethoven, Ludwig van Van Allen, James A., 1958 June p 44, 1959 Mar p 41, May p 52, 70, Sept p 110, Nov p 87, 1962 Mar p 68, May p 75, 1963 May p 84, 89, 94, July p 84, 1965 Dec p 59, 1966 May p 64, 68, 1975 Sept p 125 Van Arkel, A E., 1951 June p 19-21, 1954 July Van Bekkum, D W, 1955 Oct p 40 Van Buren, Martin, 1950 Nov p 11 Van Citters, Robert L. 1974 Nov p 96 van de for names beginning thus, not listed here. see second element e g, for van de Kamp, Peter, see Kamp Peter van de Van de Graalf Robert J 1948 June p 29, 1949 Dec p 42, 1951 May p 30, 1959 Jan p 70, 1964 Mar p 83 1970 Aug. p 24-28, 30, 32 van den for names beginning thus, not listed here see second element e g, for van den Bergh Sidney see Bergh Sidney van den van der for names beginning thus, not listed here, see second element e g for van der Laan, Harry see Laan Harry van der Van der Pol Balthus 1977 Apr p 126 van der Rohe Mies 1974 Feb p 99 van der Waals J D 1948 Oct p 16, 1966 Oct p 64 1967 May p 129 Nov p 26 1971 Sept p 182 1976 Apr p 77 Vin Dersal William R 1949 Dec p 53 55 Van Dilla Marvin A. 1976 Mar p. 111 Van Dollen Peise Josephine, see Pease, Josephine Van Dolren Van Deren David M. Jr. 1977 Jan. p. 28. Van Deren Denald M. Jr. 1975 Nov. p. 60 vani vek Jan 1951 leb p 60 1952 Jul, p 23 1374 Sept p 123 Nan Golder R. G. 1357 Apr. p. 76

van Gogh, Theo, 1972 Sept p 96 van Gogh, Vincent, 1958 Sept p 162, 1972 Sept p 85, 96 Van Gulick, Norman M, 1962 Nov p 100 Van Gundy, S D, 1971 Dec p 36 Van Horn, Hugh M, 1971 Feb p 26 Van Ligten, Raoul F, 1968 Feb p 42, 43 Van Riet Lowe, C, 1955 Mar p 57 van Rijn, Rembrandt, see Rembrandt van Rijn Van Riper, Walker, 1953 Oct p 100 Van Scott, E J, 1968 May p 113 Van Slyke, Donald, 1959 Mar p 54 Van Slyke, Donald D, 1950 June p 35, Sept p 73, 1963 Dec p 100 Van Stone, J M, 1958 Oct p 86 Van Syckel, Samuel, 1967 Jan p 62 van 't for names beginning thus, not listed here, see second element e g, for van 't Hoff, Jacobus H, see Hoff, Jacobus H van 't Van Valin, Charles C, 1957 Oct p 56 Van Vlack, Lawrence H, 1967 Sept p 211 Van Vleck, John H, 1948 Sept p 16, 1977 Dec p 82 Van Wyk, Judson J, 1963 July p 60 Vanasse, George, 1968 Sept p 80 Vance, Cyrus R., 1964 Oct p 28, 1971 Mar p 44, 1977 Aug p 24 Vance, Harold S, 1955 Dec p 52, 1958 Aug p 50, 1959 Apr p 64, 1960 Apr p 88 Vance, Rupert B, 1958 Feb p 22 Vancouver, George, 1970 June p 103 Vandenberg, Arthur W, 1950 Mar p 24 Vandenbergh, J. G., 1972 June p. 53 Vanderbilt University, 1958 May p 104, 1964 Jan p 27 Vanderbilt, William H., 1959 Nov p. 100 Vanderlaan, Martin, 1977 Feb p 83 Vandershee, Thomas A, 1962 Mar p 90 Vanderwinkel, E., 1960 June p 134 Vanderwolf, Case H, 1977 June p 96 Vane, J R., 1971 Aug p 45, Nov p 91 Vann, Edwin, 1970 Mar p 102, 103, 105 Vanselou, C H, 1949 Sept p 28 Vanselow, W 1952 Nov p 32 Vapnek, Daniel, 1973 Apr p 23 Varco, Richard L., 1957 July p 102, 1960 Feb p 82 Varet, Jacques, 1970 Feb p 35 Vargas, Don D de, 1957 June p 128 Vargas, Getulio, 1963 Sept p 214 Varian Associates, 1958 Aug p 63, 1960 Oct p 77, 1965 Mar p 33, 1966 Aug p 23 Varian, Russell 1954 Mar p 88, 1958 Aug. Varian Sigurd, 1954 Mar p 88 Varley, Cromwell 1971 May p 84 Varmus, H 1972 Aug p 101 Varner, Joseph E 1968 July p 79 81 Varolio, Constanzo 1976 Nov p 90 91 Varro, Marcus 1952 June p 23 1962 May Varsanyi Frank L. 1971 May p 50 Nov p 49 Vasarely Victor 1974 July p 98 103 104 Vasil'es O B 1970 Nov p 71 Vasiliev, J. M. 1971 Oct. p. 79 Vasiliev, M. A. 1978 Feb. p. 141 Vasilov, S. I. 1973 June p. 45-46 Vaslow Fred 1959 Aug. p. 122 Vasquez, Mario 1957 Jan p 41-44 Vassale G 1961 Apr p 50 Vassar College 1958 Dec p 37-38 Vatican Observators, 1963 Feb. p. 50 Vatner Stephen F 1974 Nov. p. 96 Vatter A L 1955 Apr p 92, 1960 Nov p 104 1961 Sept p 62 63 1965 July p 74 Naucansen Jacques de 1963 Apr. p. 139-1972 Nag p 79

Vaucouleurs, Gerard de, 1953 May p 65, 66, 71 Vaughan, A E, 1968 Dec p 50, 1971 Dec p 28 Vaughan, Henry, 1977 June p 126 Vaughan, Maurice H Jr., 1975 May p 25 Vaughn, James E, 1978 Feb p 97 Vauquelin, Louis N , 1958 Aug. p 27, 1963 Jan p 89, 90 Vavilin, V A, 1974 June p 85 Vavilov, Nikolai, 1953 July p 51, 53-55, 1956 June p 60, 1962 Nov p 43, 49, 1976 Sept Vavilov, Viktor S, 1955 Oct. p 27, 31 V-C Chemical Company, Florida, 1965 June Veblen, Oswald, 1949 Mar p 54, 1964 Sept. p 129 Vecchietti, Giuseppe, 1954 Aug p 24, 25 Vedijs, Edwin, 1968 July p 50 Veen, H J van, 1969 Dec p 93 Veerman, C C, 1977 Jan p 75, 81 Vegard, L. 1957 Mar p 92 Vegetius, 1973 Oct p 37 Veihmeyer, Frank J, 1970 Sept p 106 Veillon, J. P., 1978 Jan. p. 41 Veksler, Vladimir I, 1948 June p 29, 1951 Feb p 22, 1955 Oct p 30, 33, 1956 Aug p 29-31, 1958 Mar p 69, 1972 Apr p 31 Vela, Guillermo, 1973 Sept p 46 Velasquez, Tulio, 1955 Dec p 68 Velazquez, Diego, 1973 Sept p 35 Velde, Jan van de, 1974 Nov p 23 Velianas, Thefarie, 1975 Feb p 87 Velick, Sidney F., 1959 Aug p 122 Vehkovsky, Immanuel, 1963 Feb p 77, 1973 May p 77, 1976 Apr p 39 Velten, Olga von, 1958 Mar p 98 Veltman, M., 1974 July p. 57 Veltman, Martin J. G., 1978 Feb. p. 132, 141 Vendreley, C, 1953 Feb p 49 Vendreley, R., 1953 Feb p 49 Vendrely, Colette, 1961 Sept p 74 Vendrely, Roger, 1961 Sept p 74 Vendryes, Georges A., 1977 Mar p 26, 58 Veneklasen, Paul S. 1963 Nov p 91 Veneziano, Gabriele, 1975 Feb p 63, 1976 Nov Venezuelan Agency for Internal Development, 1965 Sept p 129 Venezuelan Foundation for Popular Housing. 1965 Sept p 129 Venezuelan Government, 1965 Sept p 129 Venezuelan Institute for Neurology and Brain Research, 1957 Jan p 60 Venezuelan Institute of Scientific Investigation, 1963 Oct p 47, 1964 Dec p 51 Venezuelan Ministry of Education, 1965 Sept p 129 Vening Meinesz, F. A., 1955 July p. 40, 41, Sept. p 165, 168, 174, 1956 Dec p 87 1960 May p 92, 1961 Dec. p 56, 1965 Apr p 54, 1969 Venkataraman 1951 June p 25 Venn John, 1966 Sept p 76, 1965 May p 95 Vennes John W 1960 June p 136 Venning Eleanor 1950 Mar p 34 Ventris Michael 1954 Jan p 46, May p 73 75 1957 Oct p 58 1958 May p 114 1962 May p 54, 1975 May p 96 Venturi Giovanni B 1961 Oct p 132 Ver Snyder I L 1967 Feb p 60 Veranzio Fausto 1970 Aug p 100 Verbeck Occined, 1964 Apr p 45 Verbeek H 1965 Apr p 124 Verdi Giuseppe 1945 June p. 43, 1973 Sept p 45 Veres chapin L. L. 1965 May p. 40-1975 No.

Forecast, 1972 May p. 48; 1973 July p. 46; 1975 Nov. p. 58.

U.S. Office of Vocational Rehabilitation, 1958 Sept. p. 88.

U.S. Office of War Information, 1956 Dec.

U.S. Patent Office, 1949 May p. 27; 1953 June p. 46; 1958 Dec. p. 54; 1973 July p. 46.

U.S. Post Office, 1953 May p. 53; 1971 Apr.

U.S. Postal Service, 1976 Dec. p. 26.

U.S. President's Science Advisory Committee, 1949 May p. 26; 1958 May p. 50; 1959 Feb. p. 58; Mar. p. 60; July p. 62; 1961 Jan. p. 78; Mar. p. 80; Sept. p. 84; Nov. p. 78; Dec. p. 76; 1963 July p. 64; 1965 Aug. p. 43; 1966 Nov. p. 115; 1967 Apr. p. 50; 1970 May p. 54; 1973 Mar. p. 44; 1974 Sept. p. 168; 1976 Sept. p. 36, 172, 174.

U.S. Project Head Start, 1968 Sept. p. 91; 1974

Aug. p. 56.

U.S. Public Health Service, 1948 May p. 32, 33; July p. 30; Sept. p. 28, 29; Oct. p. 8, 12; Dec. p. 27; 1949 Feb. p. 29; Apr. p. 27; May p. 26; July p. 44; Sept. p. 20; Oct. p. 28; Nov. p. 30; 1950 Jan. p. 26; Dec. p. 29; 1952 Jan. p. 30. 35; Mar. p. 20; May p. 37; June p. 24, 25; Aug. p. 32; Oct. p. 22, 25; 1953 Aug. p. 48; 1954 Apr. p. 44; 1956 Jan. p. 52; Sept. p. 118; Dec. p. 60; 1957 Mar. p. 37, 70; 1958 Jan. p. 46, 62; Aug. p. 29, 94; Sept. p. 88; Dec. p. 124; 1959 Jan. p. 43, 45; Apr. p. 67; May p. 68; Aug. p. 62, 65; Oct. p. 80; 1960 July p. 79; Nov. p. 65; 1961 Jan. p. 79; Sept. p. 92; Oct. p. 57; Nov. p. 79; Dec. p. 72; 1962 Oct. p. 30; Nov. p. 69; Dec. p. 43; 1963 May p. 74; Aug. p. 20; Nov. p. 43; 1964 Jan. p. 27; May p. 64; Nov. p. 58; 1965 June p. 98; July p. 95, 97; Sept. p. 179, 184, 187; 1966 Nov. p. 102; 1967 Feb. p. 60; May p. 58; Oct. p. 48; 1970 Feb. p. 19; Oct. p. 99; 1971 Apr. p. 24; June p. 59; 1973 June p. 14; Sept. p. 78; 1978 Feb. p. 81, 84.

U.S. Rubber Company, 1953 July p. 33; 1960 Mar. p. 90.

U.S. Scientific Manpower Commission, 1951 Feb. p. 30; 1954 Aug. p. 38.

U.S. Scientist's Committee on Security, 1956 Oct. p. 68.

U.S. Selective Service, 1948 Aug. p. 31; 1949 Feb. p. 29; 1951 Sept. p. 48; 1954 Aug. p. 38.

U.S. Senate, 1948 June p. 7; 1956 Aug. p. 49; 1970 May p. 16; 1977 Feb. p. 29.

U.S. Senate Advisory Committee on Color Television, 1950 Dec. p. 13-15.

U.S. Senate Appropriations Committee, 1949 July p. 26; 1951 Oct. p. 32; 1975 Apr. p. 53. U.S. Senate Commerce Committee, 1975 Nov.

p. 58.

U.S. Senate Committee on Government Operations, 1958 Jan. p. 44.

U.S. Senate Foreign Relations Committee, 1966 Aug. p. 40; 1970 May p. 23; 1973 Aug. p. 42; 1975 Mar. p. 47; 1976 Nov. p. 27, 29.

U.S. Senate Labor and Public Welfare Committee, 1952 Apr. p. 36; 1971 Apr. p. 23; 1975 July p. 45.

U.S. Senate Public Works Committee, 1969 Mar. p. 26; 1970 Sept. p. 80.

U.S. Senate Small Business Committee, 1953 May p. 53; June p. 44; Aug. p. 41. U.S. Social Security Administration, 1971 Apr.

p. 21, 24. U.S. Steel Corporation, 1952 Jan. p. 50, 53;

Sept. p. 62, 63; 1954 Jan. p. 25; 1963 Aug. p. 77, 78; Sept. p. 136; Dec. p. 88; 1965 Mar. p. 36; May p. 42; 1966 Feb. p. 76; 1968 Aug.

p. 46; 1975 Apr. p. 117.

U.S. Strategic Air Command, 1962 Apr. p. 46; 1964 Oct. p. 33; 1976 Nov. p. 35.

U.S. Strategic Bombing Survey, 1949 Mar. p. 13, 14, 16,

U.S. Supreme Court, 1949 Aug. p. 25; 1950 Jan. p. 30; 1951 July p. 28, 30; 1962 Oct. p. 30; 1970 Jan. p. 50; 1971 Feb. p. 46; Oct. p. 28, 29; 1973 Mar. p. 44; 1975 Feb. p. 41; 1977 Jan. p. 22.

U.S. Tennessee Valley Authority, 1948 May p. 32; 1951 Feb. p. 36; 1970 Mar. p. 34; 1971 Sept. p. 149.

U.S. Urban Renewal Authority, 1965 Sept. p. 196.

U.S. Veterans Administration, 1949 Feb. p. 29; Mar. p. 26; 1951 Sept. p. 45; 1952 Mar. p. 42; 1956 Nov. p. 62; 1960 Nov. p. 64; 1961 Apr. p. 78; 1964 Jan. p. 47; May p. 91.

U.S. Walter Reed Army Medical Center, 1957 Mar. p. 68; 1958 Oct. p. 96; 1960 Dec. p. 92; 1962 Aug. p. 118; 1963 Feb. p. 57; 1964 July p. 80; Dec. p. 85; 1965 July p. 99; 1966 July p. 32; 1971 Dec. p. 33.

U.S. War Department, 1949 May p. 11-15; 1963 Mar. p. 126.

U.S. War Production Board, 1948 May p. 56. U.S. Weather Bureau, 1949 Jan. p. 48; Oct. p. 14; 1950 Apr. p. 51; June p. 48; Sept. p. 48; 1952 Oct. p. 27, 30; 1953 Apr. p. 34; July p. 38; 1955 Aug. p. 40, 42, 44; 1957 Apr. p. 147; Aug. p. 35; Sept. p. 108; 1958 May p. 31, 33-37; 1960 Sept. p. 98; 1961 July p. 80, 82; 1962 Sept. p. 128, 91, 94; 1963 June p. 53; Aug. p. 94; 1964 Mar. p. 64; May p. 43; Sept. p. 216; Oct. p. 69; Dec. p. 30-32; 1965 Mar. p. 95; 1968 Dec. p. 78; 1969 Jan. p. 52; 1970 Dec. p. 40.

U.S. White House Conference on Children and Youth, 1966 Aug. p. 56; 1974 Aug. p. 55, 60.

U.S. White House Conference on International Cooperation, 1966 Jan. p. 46.

U.S. Works Progress Administration, 1949 Nov. p. 29; Dec. p. 56; 1952 June p. 24.

U.S. Yellowstone National Park, 1966 Dec. p. 108; 1977 Aug. p. 60.

Usconbuts, 1960 Nov. p. 166.

Usher, Abbott P., 1971 Feb. p. 101.

U.S.-Liberia Radio Corporation, 1961 Sept.

Ussher, James, Archbishop, 1949 Aug. p. 50; 1954 Jan. p. 69; 1959 Nov. p. 167, 173; 1960 Sept. p. 113; 1974 Jan. p. 69.

Ussing, Hans H., 1960 Dec. p. 149; 1962 Aug.

Ussing, Marie J., 1953 June p. 41.

U.S.S.R. Academy of Sciences, 1949 Dec. p. 42; 1953 Sept. p. 74; 1955 Feb. p. 62; May. p. 51; 1958 Feb. p. 42; 1960 July p. 50; Dec. p. 65; 1961 Jan. p. 80, 92; Feb. p. 68, 97; June p. 84; 1962 Sept. p. 126; 1966 Aug. p. 40; Nov. p. 39; 1969 Apr. p. 48; 1970 Nov. p. 52, 69; 1971 Feb. p. 51, 53; June p. 37; 1975 Apr. p. 70; May p. 83; 1977 May p. 66.

U.S.S.R. Administration of Navigational Safety, 1963 Aug. p. 97.

U.S.S.R. Commissariat of Agriculture, 1962 Nov. p. 45, 46.

U.S.S.R. Committee for the Exploration of the Stratosphere, 1957 Nov. p. 67.

U.S.S.R. Crimean Astrophysical Observatory, 1964 Aug. p. 18; 1966 Nov. p. 62; 1974 Dec. p. 43.

U.S.S.R. Electron Accelerator Center, 1973 Oct. U.S.S.R. Gorky University, 1975 May p. 83. U.S.S.R. Hermitage Museum, 1965 May p. 101,

U.S.S.R. I. V. Kurchatov Institute of Atomic Energy, 1972 July p. 66, 70, 72; 1975 Mar.

U.S.S.R. Institute for High Energy Physics, 1968 Sept. p. 84.

U.S.S.R. Institute for High Energy Research, 1970 Oct. p. 107.

U.S.S.R. Institute for Problems of Information Transmission, 1971 June p. 37.

U.S.S.R. Institute for the Study of Poliomyelitis, 1956 July p. 48.

U.S.S.R. Institute of Chemical Physics, 1971 Oct. p. 92.

U.S.S.R. Institute of Control Science, 1974 Nov. p. 52.

U.S.S.R. Institute of Health of Children and Young Persons, 1968 Jan. p. 24.

U.S.S.R. Institute of High Pressure Physics, 1965 May p. 40; June p. 106, 108.

U.S.S.R. Institute of Nuclear Problems, 1956 July p. 48.

U.S.S.R. Institute of Physics of the Earth, 1975 May p. 17.

U.S.S.R. Ioffe Institute, 1971 July p. 32. U.S.S.R. Joint Institute for Nuclear Research, 1960 Jan. p. 94; 1966 July p. 74, 77; 1976 Nov. p. 51.

U.S.S.R. Kurchatov Institute of Atomic Energy, 1969 Dec. p. 51.

U.S.S.R. Lebedev Physics Institute, 1971 Nov.

U.S.S.R. Lenin All-Union Academy of Agricultural Sciences, 1962 Nov. p. 41, 43.

U.S.S.R. Linear Accelerator Program, 1961 Nov. p. 56.

U.S.S.R. Main Administration for Utilization of Atomic Energy, 1960 Jan. p. 71.

U.S.S.R. Marine Antarctic Expedition, 1962 Sept. p. 115, 118, 128.

U.S.S.R. Mineralogical Institute St. Petersburg, 1965 Oct. p. 26.

U.S.S.R. Ministry of Health, 1956 July p. 48; 1962 Oct. p. 48.

U.S.S.R. Moscow State University, 1971 Apr. p. 83, 84.

U.S.S.R. Novosibirsk Accelerator Center, 1971 July p. 101.

U.S.S.R. Scientific Research Institute for Experimental Surgical Apparatus and Instruments, 1962 Oct. p. 48.

U.S.S.R. Serpukhov Institute for High Energy Physics, 1978 Mar. p. 72.

U.S.S.R. Serpukhov Laboratory, 1971 Apr. p. 50; 1974 Aug. p. 46.

U.S.S.R. State Committee for Coordination of Scientific Research Work, 1961 June p. 84. U.S.S.R. State Committee for Science and

Technology, 1969 Apr. p. 48. U.S.S.R. State Planning Committee, 1969 Apr.

U.S.S.R. Tsniichermet Laboratory, 1963 Dec.

p. 79. U.S.S.R. Washington Embassy, 1957 Dec. p. 39.

Utah International, Inc., 1975 Dec. p. 24. Utica Drop Forge & Tool Corporation, 1954 July p. 38.

Utley, Clifton, 1952 June p. 36 Utterback, Nyle, 1968 Oct. p. 51 Uumpopual, 1960 Nov. p. 166. Uwin, Nigel, 1975 Nov. p. 58 Uyeda, S., 1967 Feb. p. 48.

Uyematsu, Tomomasa, 1966 May p 78

Voorhis, Arthur D, 1961 Sept. p 94 Voorhis, S. N., 1948 June p. 27 Voorhoeve, P. E., 1975 Jan. p. 63 Vorderman, A. G., 1977 Mar p 107 Voronin, V., 1961 May p 91 Vorontsov-Velyaminov, B A., 1961 Feb p 50, 55, 57, 1973 Dec p 40, 43, 44, 46 Voroshilova, Marina K., 1959 Feb p 94 Vos. Antoon de, 1957 Apr p 76 Vosburgh, Frederick G., 1952 Feb p 31 Voshage, H, 1973 July p 68, 70 Voss, G A., 1973 Oct p 107 Voysey, R. G, 1959 Dec p 90 Voznesensky, A., 1972 Sept p 80 Vozza, R., 1964 Jan p 84 Vrba, Elizabeth, 1978 Apr p 102 Vrey, Harold C, 1963 Mar p 43 Vrubel, J, 1961 May p 78 Vuillaume, Jean B, 1962 Nov p 93 Vulca, 1962 Feb p 86 Vullson, K. S., 1957 Feb p 62

W

Waaland, J Robert, 1977 Aug. p 95 Wabash College, 1963 Feb p 62 Waber, Rudolph, 1963 May p 70 Wace, Alan J B, 1954 May p 74, Dec p 72-74 Wachtel, Henry K., 1949 June p 26 Wachtel, M. M., 1956 Mar p 90 Wacker, Warren, 1959 July p 72 Wada, Juhn A., 1972 Apr p 83, 1973 Mar p 70 Wada, Sent K., 1959 July p 134 Waddington, C H, 1953 Sept p 108, 109, 1957 Nov p 86, 1964 Oct. p 114, 1968 Mar p 48, 1976 Apr p 39, 83 Wade, Campbell M., 1965 Mar p 54, 1969 Jan p 36, 1971 Dec p 25 Wade, Clarence Jr., 1977 Apr p 100 Wadleigh, Cecil H., 1970 Feb p 89 Wadley Institute of Molecular Biology, 1968 Wadsworth, James J., 1962 May p 46 Wadsworth, James W, 1949 Dec p 27 Wagenen, Gertrude van, 1959 June p 68, 1966 June p 56 Wagner, 1959 Dec p 111 Wagner, C J. 1967 Nov p 66 Wagner, Carl. 1960 July p 66 Wagner Electric Corporation, 1973 June p 72 Wagner Franz von. 1961 Aug. p 42 Wagner, Gunther A 1976 Dec p 118 Wagner Henry G. 1961 Sept p 228, 1964 Dec p 51 1969 May p 113 Wagner Philip L 1969 Apr p 70 Wagner Richard 1959 June p 86, 1961 Feb p 72 Wagner Richard S 1967 Dec p 72 Wagner Robert F 1949 Feb p 28 June p 14 1960 Aug p 77, 1965 Jan p 27 Wagner Robert R 1963 Oct p 47 Wagner-Jauregg, Julius 1967 Nov p 27 Wasoner Robert V 1970 Dec p 29, 1974 May p 103 115 116 118 Wagstaff Samuel S. 1978 Feb p 90 Wagtendonk Willem van, 1950 Nov p 37 Wahl Arnold C 1970 Apr p 54 Wahl Arthur C 1950 Apr p 45 46 1955 Sept p 72 1953 Ich p 66 Wahl Charles, 1962 June p. 62. Wahlores Ink 1955 Dec p 64 Wahlund Sten 1951 Jan p 50 Waltenbrook Linux, 1963, tpc p. 54

Waite 5 O 18x Jan p 46

Wainwright, Geoffrey, 1970 Nov p 30, 1977 Dec p 157 Wainwright, Lillian, 1952 June p 42 Wainwright, Thomas E., 1960 Aug. p 127, 1969 Mar p 66 Waisbren, Burton A, 1968 Feb p 93 Wait, G R., 1953 Apr p 36, 37 Waite, Amory H, 1955 Sept p 55 Waitt, Alden H., 1949 Apr p 26 Wakeshima, Hiromu, 1972 Dec p 69 Wakil, Salih J, 1954 Jan. p 35, 1960 Feb p 49, 1961 June p 146 Waksman, Byron H, 1974 Nov p 60 Waksman, Selman A., 1949 Aug. p 27, 30-32, 34, 1952 Dec p 29, 1955 Oct p 52, 1967 Nov p 25, 28, 1974 Aug. p 82 Walbot, Virginia E., 1976 Sept. p 173 Walcott, Charles, 1974 Dec p 102, 103, 107 Wald, Abraham, 1954 Aug. p 23, 1955 Feb p 78, 80, 1977 May p 122 Wald, George, 1949 Sept. p 15, 1952 June p 34, 1953 July p 58, 1956 Dec p 118, 1961 July p 121, Sept. p 228, 232, 1963 Oct p 93, Nov p 116, Dec p 68, 1964 Apr p 62, 64, May p 60, Nov p 57, Dec p 54, 56, 1966 Oct. p 78, 79, Nov p 65, 1967 June p 72, Dec p 48, 1968 Sept. p 175, 1970 Oct p 82, 1977 July p 28, 1977 Dec p 110 Waldemar, Prince of Prussia, 1965 Aug p 93 Walden, Mayo K., 1968 June p 46 Waldenstrom, Jan, 1957 Mar p 140, 1974 Nov p 72 Waldheim, Kuri, 1977 Nov p 70 Waldmeier, M., 1959 Oct p 64 Waldron, Ingrid, 1973 Aug. p 47 Waldron, L. R., 1953 July p 59 Wales, 1977 Jan. p 23, 25, 26 Walford, Lionel A., 1952 Apr p 21, 1969 Sept p 194 Waling, Joseph, 1969 May p 56 Walk, Richard D., 1960 Apr p 64, 1961 Mar p 139, 1965 Nov p 94, 1967 May p 96, 97 Walker, Alan, 1967 Apr p 59, 1976 Nov p 70 Walker, Duard L., 1973 Jan p 24, 1974 Feb Walker, Elaine, 1956 Mar p 34 Walker, Enc A., 1951 Sept. p 72 Walker, G B, 1962 July p 41 Walker, J L, 1965 Jan p 43 Walker, John, 1976 June p 110, 114 Walker, John A, 1977 June p 83 Walker Merle F. 1959 Apr p 98, 1961 June p 119, 1962 Apr p 58, 60, 62, 1969 Jan. p 31, 33, 1974 Oct. p 39 Walker, N A 1962 Oct p 107 Walker, P M B, 1970 Apr p 26 Walker, Robert M., 1967 June p. 51, 1973 July p 71, 1976 Dec p 114, 116 Walker, Russell G. 1973 Apr p 32, 35 Walker, Thomas J. 1974 Aug. p 42 Walker, Walter L. 1965 May p. 48 Wall, F. T. 1964 July p. 106 Wall, Joseph 1970 Aug. p 48 Wall, N Sanders, 1971 May p 26 Wall, Patrick D. 1961 Feb p 43, 44 1966 May p 109 Wallace, Alfred R., 1948 May p. 12, 1953 Dec p 66 71, 72 1955 Oct p 110, 1956 Feb p 63 66, 67, 1957 July p 119, 120, 121, 1959 Jan p 121, Feb p "0-82, 84, May p 63, 65, Aug. p 95, 59 106, 1964 Sept p 149, 1972 Dec p 91, 1973 Dec p 61, 67, 1978 June p 88 Wallace, C S. 1964 June p 76, 79 Wallace, Craig K. 1971 Aug p 17 Wallace, E. M. 1950 Sept p 58 Walling Gerrae, 1964 July p. 16, 1964 Dec.

p 88, 1971 Dec p 13, 1976 June p 21 Wallace, Henry A., 1950 Nov p 12, 1951 Aug. p 42 Wallace, Herbert, 1959 Feb p 70 Wallace, Hugh, 1973 Aug p 24 Wallace, John, 1959 Feb p 73 Wallace, L. W., 1975 Sept p. 136 Wallace, R., 1956 June p 41 Wallace, Robert C, 1973 Oct p 24 Wallace, Robert E, 1970 Dec p 41, 1975 May Wallace, Robin A., 1971 May p 18 Wallace, William, 1959 Feb p 73, 75, Nov p 99, 100, 105, 110 Wallach, Donald F H, 1972 Feb p 32 Wallach, Hans, 1962 Jan. p 46, 1968 Sept p 206, 1975 Aug. p 75 Wallach, Otto, 1967 Nov p 26 Wallaston, William H., 1968 Sept p 72. Walldius, Borje, 1978 Jan p 45-49 Waller, Augustus V, 1971 July p 51 Waller, Fletcher C, 1949 Aug p 33 Waller, Ivar, 1968 July p 62 Waller, J P, 1969 Oct p 28 Waller, R., 1954 Dec p 98 Wallerstein, George, 1971 Dec p 28, 29 Wallin, J E., 1971 Aug. p 52 Wallis, John, 1967 Aug p 97, 1968 May p 95, 1969 Nov p 87, 88, 91, 1976 Aug p 92 Wallis, Robert, 1968 Apr p 116 Wallman, James C, 1963 Apr p 70 Wallman, Joshua, 1965 Apr p 99 Waloff, Z V, 1963 Dec p 132 Walpole, Horace, 1948 Aug p 38, 1952 June p 22, 1958 June p 74, 1973 Sept p 120 Walras, Leon, 1951 Oct p 15 Walraven, J., 1964 Jan p 35 Walraven, Theodore, 1957 Mar p 55, 1962 Mar p 44, 1964 Jan p 35 Walsby, A E., 1977 Aug. p 90 Walsh, A D, 1953 Dec p 75 Walsh, Donal, 1972 Aug. p 99 Walsh, John, 1960 Oct p 117 Walsh, K. A, 1964 Dec p 76 Walsh, Michael J., 1976 Mar p 32 Walsh, P J. 1969 Nov p 36 Walsh, Thomas F, 1967 Dec p 32 Walshe, Barbara, 1951 Oct. p 69, 70 Walshe, J. M., 1966 May p. 45, 1968 May p III Walsingham, Francis, Sir, 1977 Nov p 142. Walske, Carl, 1978 June p 74 Walske, M Carl Jr., 1972 Nov p 21 Walter and Eliza Hall Institute of Medical Research, 1964 Dec p 106 Walter, Carl, 1954 Feb p 57, 1961 July p 61 Walter, David, 1974 Nov p 87 Walter, Grey, 1962 June p 143 Walter, Leo, 1953 Sept p 80 Walter, Richard, 1969 June p. 49 Walter, T J. 1976 Feb p 113 Walter, W Grey, 1954 June p 57, 62, 1959 Aug. p 91, 1970 Mar p 68 Walter, William, 1973 Feb p 89 Walters, Daniel A., 1972 Sept p 78 Walters, Richard H. 1964 Feb p 39, 1963 Aug. Walther, Fritz, 1961 Dec p 116, 119 Walton Ernest T S, 1948 June p 29, 1950 Sept p 30, 1952 Jan p 38, 1958 Mar p 68, 1967 Nov p 28, 1970 Aug. p 24 Walton Harold F, 1951 Mar p 41, Nov p 25, 1952 July p 65, 1955 Feb p 91, Aug p 39, 1958 Jug. p 32, 1960 Mai p 40, 1971 Feb Walton, Izaak, 1974 May p. 33 Walton John R., 1963 Apr. p. 70

p. 105. Vergil, 1963 Dec. p. 109-111, 116, 121. Verhoeff, Frederick H., 1977 June p. 100. Verhoogen, John, 1967 Feb. p. 48, 49. Verkes, Robert E., 1963 May p. 130. Verlaine, Paul, 1956 July p. 109. Vermaseren, J. A. M., 1978 Feb. p. 142. Vermeer, Jan, 1951 Feb. p. 60; 1952 July p. 22, Vermeulen, Roelof, 1961 Aug. p. 84. Vernadsky, Vladimir I., 1958 Apr. p. 83; 1970 Sept. p. 45, 53. Vernam, Gilbert S., 1966 July p. 42, 43. Verne, Jules, 1952 Apr. p. 19; 1959 Apr. p. 41; 1960 Jan. p. 112. Verney, E. B., 1953 Jan. p. 46; 1956 Jan. p. 72. Vernon, Jack A., 1955 June p. 56. Vernon, Leo P., 1958 Aug. p. 82; 1960 Nov. p. 116. Vernov, Sergei, 1949 May p. 26; 1959 Mar. p. 46. Veron, Olivia A., 1965 Aug. p. 44. Veron, Philippe, 1965 Mar. p. 55; 1966 Dec. p. 49; 1977 Aug. p. 32. Veronesi, R., 1968 Apr. p. 70, 77. Verrill, A. Hyatt, 1972 Nov. p. 71, 72. Verrocchio, Andrea del, 1958 Sept. p. 62. Versari, Riccardo, 1955 Dec. p. 42, 44. Verschaeffelt, E., 1967 June p. 108. Verschuur, Gerrit L., 1968 Nov. p. 56; Dec. Vértes, László, 1966 Jan. p. 49; Nov. p. 52; 1969 May p. 45. Vertol, 1960 Aug. p. 45. Verus, Emperor, 1974 Dec. p. 126. Verus, Lucius, 1961 June p. 130. Verwey, J., 1954 Nov. p. 42. Verworn, Max, 1949 June p. 45. Very, Frank W., 1965 Aug. p. 23. Verzar, Frederic, 1968 Mar. p. 32; 1973 Sept. Vesalius, Andreas, 1948 May p. 25-31; 1950 Oct. p. 19; 1951 Mar. p. 18; 1952 June p. 59; 1953 Feb. p. 80; Sept. p. 119; 1956 Jan. p. 91, 94; 1957 Jan. p. 78; Mar. p. 114; 1960 Mar. p. 119; 1965 Sept. p. 62; 1968 June p. 82; 1972 Nov. p. 24; 1973 Sept. p. 138, 139; 1976 Mar. p. 25. Vesell, Elliot S., 1975 June p. 26. Vespasian, Titus F. S., 1956 July p. 40; 1958 Apr. p. 73. Vesper, Howard G., 1952 Feb. p. 15. Vestine, E. H., 1971 Dec. p. 84. Vetter, H., 1967 Dec. p. 69 Vetulani, T., 1950 Apr. p. 54. Veverka, Joseph, 1977 Feb. p. 30. Veverka, Joseph F., 1973 Aug. p. 43; 1975 Sept. p. 149; 1977 Apr. p. 57. Vick, James, 1964 Mar. p. 42. Victor, Jack, 1967 May p. 97. Victor, Paul, 1955 Sept. p. 90. Victor, W. D., 1952 July p. 50, 52, 54, 55. Victor, Walton K., 1961 May p. 82. Victoria, Empress of Germany, 1965 Aug. p. 89. Victoria, Eugénie, 1965 Aug. p. 94, 95. Victoria, Queen, 1950 Oct p. 54; 1952 May p. 65; 1953 Apr. p. 94, 98; 1956 Apr. p. 116; 1957 Feb. p. 114; 1959 May p. 63; 1965 Aug. p. 88-90, 93-95; 1967 July p. 103; 1969 July p. 42, 46; 1970 Aug. p. 92; 1971 Aug. p. 15; 1973 Mar. p. 84, 85. Victoria, Queen of Spain, 1965 Aug. p. 91. Vicus II, 1977 Feb. p. 41-43. Vidyasagar, T. R., 1976 Dec. p. 46. Vieille, Paul M., 1949 Nov. p. 18; 1963 Feb. Viertl, J. R. M., 1969 June p. 34.

Vietcong National Liberation Front, 1970 July p. 48. Viète, François, 1949 Jan. p. 42-45. Vigani, 1976 May p. 98. Vignard, Edmond, 1976 Aug. p. 30, 34. Vigue, C. L., 1975 Aug. p. 59 Vilches, Oscar E., 1973 May p. 37. Vilcsek, E., 1965 Oct. p. 35. Vilkuna, Kustaa, 1956 Mar. p. 38. Villa, Francesco, 1967 Oct. p. 43. Villain, J., 1967 Sept. p. 230 Villa-Kamaroff, Lydia, 1975 May p. 28. Villar, Luisa M., 1965 Nov. p. 50. Villard, O. G. Jr., 1955 Sept. p. 136. Villareal, Luis, 1974 Feb. p. 38. Villegas, L., 1966 Mar. p. 79. Villegas, R., 1966 Mar. p. 79. Villemin, Jean A., 1949 Oct. p. 36. Villon, François, 1957 Nov. p. 128. Vince, Margaret, 1972 Aug. p. 30. Vincent, Dayton G., 1971 Jan. p. 36. Vincente, R. O., 1971 Dec. p. 83. Vincke, I. H., 1951 July p. 63. Vine, F. J., 1967 Feb. p. 54; 1968 Apr. p. 57; Dec. p. 61, 65; 1969 Nov. p. 103, 114; 1972 May p. 56; 1973 May p. 67. Vineberg, Arthur M., 1968 Oct. p. 36, 39-41. Vinen, W. F., 1958 June p. 35. Vineyard, Elizabeth, 1972 July p. 59. Vinicio, Vibius, 1958 Apr. p. 71. Vinograd, Jerome R., 1958 Oct. p. 42; 1964 May p. 51; 1967 Feb. p. 39; 1968 Jan. p. 46; Oct. p. 77; 1969 Oct. p. 29; 1973 Apr. p. 21. Vinogradov, Aleksandr P., 1965 Jan. p. 48. Vinogradov, N. A., 1948 Aug. p. 31. Vinš, Bohuslav, 1972 May p. 100. Vinson, J. W., 1967 Sept. p. 104. Violet-le-Duc, Eugène, 1958 Mar. p. 76; 1972 Nov. p. 91, 92 Virchow, Rudolf, 1949 Jan. p. 54; 1952 May p. 30; 1961 Sept. p. 51; 1977 Feb. p. 76. Virdung, Sebastian, 1967 Dec. p. 97. Virgil, 1951 Nov. p. 54; 1953 Dec. p. 31; 1959 Oct. p. 88; 1968 Aug. p. 79; 1972 Sept. p. 93. Virginia Polytechnic Institute, 1956 Sept. p. 110. Virtanen, A. I., 1966 Aug. p. 42; 1967 Nov. Viscontini, Max, 1962 Apr. p. 102, 103. Vishinsky, Andrei Y., 1949 Dec. p. 26. Vishniac, Roman, 1957 Dec. p. 118; 1962 July Vishniac, Wolf, 1953 Nov. p. 82; 1959 Oct. p. 99. Visscher, Maurice B., 1949 Oct. p. 27; 1953 Feb. p. 34. Viste, Elizabeth, 1964 Feb. p. 51. Visvanathan, N., 1964 Jan. p. 36. Vita Vet Laboratories, 1966 June p. 97. Vitale, Joseph N., 1970 Mar. p. 105, 106. Vitė, Jean, 1966 Dec. p. 65. Vitelli, Karen D., 1971 Aug. p. 32. Viterbi, Antonio, 1956 Jan. p. 73. Vitrari, 1967 Sept. p. 71. Vitruvius, 1950 May p. 50; Nov. p. 16; 1952 June p. 23; 1959 June p. 61; 1960 Mar. p. 119; Dec. p. 134; 1961 June p. 129; 1963 Oct. p. 102; Nov. p. 79; 1965 Dec. p. 88; 1968 Apr. p. 96; 1969 Feb. p. 46; 1970 Aug. p. 97; Oct. p. 112; 1971 June p. 93; 1974 Oct. p. 85; 1978 May p. 159, 160. Vitry, Philippe de, 1967 Dec. p. 95. Vittum, M. T., 1953 Aug. p. 37. Vivaldi, Antonio, 1974 Nov. p. 78. Vizzoli, Gary C., 1977 May p. 44. Vladimir, Grand Duke of Russia, 1965 Aug. p. 89. Vladimirtsov, B. Y., 1963 Aug. p. 55, 61.

Vlassa, N., 1967 Aug. p. 40; 1968 May p. 31-33. Vlastovsky, V. G., 1968 Jan. p. 24. Vlattas, Isidoros, 1968 July p. 50. Voegtlin, Carl, 1961 Apr. p. 56. Voellmy, Adolf, 1966 Feb. p. 97. Vogel, F. Lincoln, 1961 Oct. p. 110; 1969 May p. 56. Vogel, Hermann, 1956 Sept. p. 172; 1968 Sept. p. 168; 1975 Apr. p. 109. Vogel, J., 1966 Aug. p. 53. Vogel, Philip J., 1964 Jan. p. 46; 1967 Aug. p. 24. Vogel, R., 1969 Nov. p. 36. Vogel, Stefan, 1966 July p. 83. Vogel, Steven, 1975 Nov. p. 85. Vogelfanger, I. J., 1962 Oct. p. 50. Vogt, H., 1950 Jan. p. 44. Vogt, Karl, 1973 Apr. p. 97. Vogt, Peter K., 1964 June p. 47, 49. Vogt, Peter R., 1973 July p. 48. Vogt, Rochus, 1961 Apr. p. 75. Vogt, Thoralf, 1957 July p. 42. Vogt, William, 1950 Aug. p. 11. Voice of America, 1957 Jan. p. 49. Voitkevich, A., 1963 Nov. p. 110. Volcani, Benjamin E., 1959 Sept. p. 110. Volhard, Franz, 1959 Mar. p. 54. Volkin, Elliot, 1961 Sept. p. 82; 1962 Feb. p. 46; 1964 May p. 49, 51, 52. Volkind, R. A., 1975 Jan. p. 65. Volkman, Alvin, 1969 June p. 43. Volkoff, G. M., 1964 June p. 38; 1971 Jan. p. 50; 1972 May p. 38, 39; 1977 Oct. p. 48. Volkov, D. V., 1978 Feb. p. 136, 138. Volkov, V. V., 1978 June p. 72. Volkswagen, 1977 Aug. p. 103. Vollrath, Richard E., 1956 Feb. p. 54. Volmer, M., 1955 Mar. p. 74. Volshage, H., 1965 Oct. p. 35. Volta, Alessandro, 1948 Aug. p. 42; 1950 Feb. p. 40-42; 1952 Nov. p. 57; 1954 Apr. p. 64; July p. 73; 1960 June p. 108; Aug. p. 99; Oct. p. 117, 118; 1961 May p. 107; 1965 Jan. p. 82-91; 1970 Feb. p. 85. Volta, Filippo, 1965 Jan. p. 82. Volta, Zanino, 1965 Jan. p. 85. Voltaire, 1951 Sept. p. 45; 1955 Oct. p. 101-103, 110; 1957 Dec. p. 42; 1959 Oct. p. 163; 1965 Jan. p. 86; 1967 Oct. p. 70; 1971 Dec. p. 63; 1976 Jan. p. 115; 1977 Feb. p. 35. von for names beginning thus, not listed here, see second element e.g., for von Helmholtz, Hermann, see: Helmholtz, Hermann von. Von Bellingshausen, Thaddeus G., 1962 Sept. p. 64. Von Chamisso, Adelbert, 1961 Jan. p. 150, 153. Von Daniken, Erich, 1976 Apr. p. 39. von der for names beginning thus, not listed here, see second element e.g., for von der Linde, D, see: Linde, D. von der. von Drais de Sauerbrun, Baron, see: Sauerbrun, Baron von Drais de. von Eotvós, Roland, Baron, see: Eótvós, Roland Baron von. Von Gesner, Konrad, 1965 Aug. p. 62. Von Herzen, Richard P., 1961 Oct. p. 152; Dec. p. 56. Von Kluber, H., 1960 July p. 58. von Linné, Carl, see: Linnaeus. Von Petz, Aladar, 1962 Oct. p. 48. Vonder Haar, Thomas H., 1971 Sept. p. 92. Vonk, G., 1965 Apr. p. 123. Vonnegut, Bernard, 1957 Oct. p. 43; 1961 Jan. p. 121, 127; 1965 Jan. p. 42, 44. Voogd, Jan, 1962 June p. 60; 1967 Mar. p. 117; 1975 Jan. p. 65. Voorhess, Mary, 1972 July p. 79.

Voorhis, Arthur D., 1961 Sept. p. 94 Voorhis, S N, 1948 June p 27 Voorhoeve, P. E., 1975 Jan. p. 63. Vorderman, A. G., 1977 Mar p 107 Voronin, V, 1961 May p 91 Vorontsov-Velyaminov, B A, 1961 Feb p 50, 55, 57, 1973 Dec p 40, 43, 44, 46 Voroshilova, Marina K., 1959 Feb p 94 Vos, Antoon de, 1957 Apr p 76 Vosburgh, Frederick G, 1952 Feb p 31 Voshage, H, 1973 July p 68, 70 Voss, G A, 1973 Oct p 107 Voysey, R. G, 1959 Dec. p 90 Voznesenskij, A., 1972 Sept. p 80 Vozza, R., 1964 Jan p 84 Vrba, Elizabeth, 1978 Apr p 102 Vrey, Harold C, 1963 Mar p 43 Vrubel, J., 1961 May p 78 Vullaume, Jean B, 1962 Nov p 93 Vulca, 1962 Feb p 86 Vullson, K. S., 1957 Feb p 62

W

Waaland, J Robert, 1977 Aug p 95 Wabash College, 1963 Feb p 62 Waber, Rudolph, 1963 May p 70 Wace, Alan J B, 1954 May p 74, Dec p 72-74 Wachtel, Henry K., 1949 June p 26 Wachtel, M. M., 1956 Mar p 90 Wacker, Warren, 1959 July p 72 Wada, Juhn A , 1972 Apr p 83, 1973 Mar Wada, Seiji K., 1959 July p 134 Waddington, C H., 1953 Sept. p 108, 109, 1957 Nov p 86, 1964 Oct. p 114, 1968 Mar p 48, 1976 Apr p 39, 83 Wade, Campbell M., 1965 Mar p 54, 1969 Jan. p 36, 1971 Dec. p 25 Wade, Clarence Jr, 1977 Apr p 100 Wadleigh, Cecil H, 1970 Feb p 89 Wadley Institute of Molecular Biology, 1968 Aug. p Wadsworth, James J., 1962 May p 46 Wadsworth, James W, 1949 Dec p 27 Wagenen, Gertrude van, 1959 June p 68, 1966 June p 56 Wagner, 1959 Dec p 111 Wagner, C J, 1967 Nov p 66 Wagner, Carl, 1960 July p 66 Wagner Electric Corporation, 1973 June p 72. Wagner, Franz von, 1961 Aug. p 42 Wagner, Gunther A, 1976 Dec p 118 Wagner Henry G, 1961 Sept p 228, 1964 Dec p 51, 1969 May p 113 Wagner Philip L., 1969 Apr p 70 Wagner, Richard 1959 June p 86, 1961 Feb p 72 Wagner, Richard S., 1967 Dec p 72 Wagner Robert F, 1949 Feb p 28, June p 14 1960 Aug. p 77, 1965 Jan p 27 Wagner, Robert R. 1963 Oct p 47 Wagner-Jauregg, Julius 1967 Nov p 27 Wagoner, Robert V. 1970 Dec p 29, 1974 May p 108 115 116 118 Wagstaff, Samuel S., 1978 Feb p 90 Wagtendonk, Willem van, 1950 Nov p 37 Wahl Arnold C 1970 Apr p 54 Wahl Arthur C 1950 Apr p 45 46 1955 Sept. p 72 1959 Feb p 66 Wahl Charles, 1962 June p 62 Wahlgren Erik, 1958 Dec p 64 Wahlund Sten, 1951 Jan, p 50 Wahrenbrook Enc A, 1963 Apr p 84 Waife, 5 O 1958 Jan p 46

Wainwright, Geoffrey, 1970 Nov p 30, 1977 Dec p 157 Wainwright, Lillian, 1952 June p 42 Wainwright, Thomas E., 1960 Aug p 127, 1969 Waisbren, Burton A, 1968 Feb p 93 Wait, G R., 1953 Apr p 36, 37 Waite, Amory H., 1955 Sept p 55 Waitt, Alden H, 1949 Apr p 26 Wakeshima, Hiromu, 1972 Dec p 69 Wakil, Sahh J, 1954 Jan p 35, 1960 Feb p 49, 1961 June p 146 Waksman, Byron H, 1974 Nov p 60 Waksman, Selman A, 1949 Aug. p 27, 30-32, 34, 1952 Dec p 29, 1955 Oct. p 52, 1967 Nov p 25, 28, 1974 Aug. p 82 Walbot, Virginia E., 1976 Sept. p 173 Walcott, Charles, 1974 Dec p 102, 103, 107 Wald, Abraham, 1954 Aug. p 23, 1955 Feb p 78, 80, 1977 May p 122 Wald, George, 1949 Sept. p 15, 1952 June p 34, 1953 July p 58, 1956 Dec p 118, 1961 July p 121, Sept. p 228, 232, 1963 Oct p 93, Nov p 116, Dec p 68, 1964 Apr p 62, 64, May p 60, Nov p 57, Dec p 54, 56, 1966 Oct. p 78, 79, Nov p 65, 1967 June p 72, Dec p 48, 1968 Sept. p 175, 1970 Oct. p 82, 1977 July p 28, 1977 Dec p 110 Waldemar, Prince of Prussia, 1965 Aug p 93 Walden, Mayo K., 1968 June p 46 Waldenström, Jan, 1957 Mar p 140, 1974 Nov Waldheim, Kurt, 1977 Nov p 70 Waldmeier, M., 1959 Oct. p 64 Waldron, Ingrid, 1973 Aug. p 47 Waldron, L R., 1953 July p 59 Wales, 1977 Jan p 23, 25, 26 Walford, Lionel A., 1952 Apr p 21, 1969 Sept p 194 Waling, Joseph, 1969 May p 56 Walk, Richard D, 1960 Apr p 64, 1961 Mar p 139, 1965 Nov p 94, 1967 May p 96, 97 Walker, Alan, 1967 Apr p 59, 1976 Nov p 70 Walker, Duard L, 1973 Jan p 24, 1974 Feb p 35 Walker, Elaine, 1956 Mar p 34 Walker, Eric A., 1951 Sept p 72. Walker, G B, 1962 July p 41 Walker, J L, 1965 Jan p 43 Walker, John, 1976 June p 110, 114 Walker, John A., 1977 June p 83 Walker, Merle F., 1959 Apr p 98, 1961 June p 119, 1962 Apr p 58, 60, 62, 1969 Jan. p 31, 33, 1974 Oct p 39 Walker, N. A., 1962 Oct. p. 107 Walker, P. M. B., 1970 Apr. p. 26 Walker, Robert M., 1967 June p. 51, 1973 July p 71, 1976 Dec p 114, 116 Walker, Russell G. 1973 Apr p 32, 35 Walker, Thomas J., 1974 Aug. p. 42 Walker, Walter L. 1965 May p 48 Wall, F T, 1964 July p 106 Wall, Joseph, 1970 Aug. p 48 Wall, N Sanders, 1971 May p 26 Wall, Patrick D. 1961 Feb p 43, 44, 1966 May p 109 Wallace, Alfred R., 1948 May p 12, 1953 Dec p 66 71 72, 1955 Oct p 110, 1956 Feb p 63, 66, 67, 1957 July p 119, 120, 121, 1959 Jan p 121, Feb p 70-82, 84, May p 63, 65, Aug. p 98, 99 106, 1964 Sept. p 149, 1972 Dec p 91, 1973 Dec p 61, 67, 1978 June p 88 Wallace, C. S 1964 June p 76, 79 Wallace, Craig K., 1971 Aug. p 17 Wallace, E. VI., 1950 Sept p 58 Wallace, George, 1964 July p 16, 1968 Dec

p 88, 1971 Dec p 13, 1976 June p 21 Wallace, Henry A., 1950 Nov p 12, 1951 Aug. p 42 Wallace, Herbert, 1959 Feb p 70 Wallace, Hugh, 1973 Aug p 24 Wallace, John, 1959 Feb p 73 Wallace, L. W, 1975 Sept p 136 Wallace, R., 1956 June p 41 Wallace, Robert C, 1973 Oct p 24 Wallace, Robert E., 1970 Dec p 41, 1975 May Wallace, Robin A., 1971 May p 18 Wallace, William, 1959 Feb p 73, 75, Nov p 99, 100, 105, 110 Wallach, Donald F H, 1972 Feb p 32 Wallach, Hans, 1962 Jan. p 46, 1968 Sept p 206, 1975 Aug. p 75 Wallach, Otto, 1967 Nov p 26 Wallaston, William H, 1968 Sept p 72 Walldius, Borje, 1978 Jan p 45-49 Waller, Augustus V, 1971 July p 51 Waller, Fletcher C, 1949 Aug p 33 Waller, Ivar, 1968 July p 62 Waller, J P, 1969 Oct p 28 Waller, R., 1954 Dec p 98 Wallerstein, George, 1971 Dec p 28, 29 Wallin, J E, 1971 Aug. p 52 Wallis, John, 1967 Aug p 97, 1968 May p 95, 1969 Nov p 87, 88, 91, 1976 Aug. p 92. Wallis, Robert, 1968 Apr p 116 Wallman, James C, 1963 Apr p 70 Wallman, Joshua, 1965 Apr p 99 Waloff, Z V, 1963 Dec p 132. Walpole, Horace, 1948 Aug p 38, 1952 June p 22, 1958 June p 74, 1973 Sept p 120 Walras, Leon, 1951 Oct. p 15 Walraven, J., 1964 Jan. p 35 Walraven, Theodore, 1957 Mar p 55, 1962 Mar p 44, 1964 Jan. p 35 Walsby, A. E., 1977 Aug. p 90 Walsh, A. D, 1953 Dec p 75 Walsh, Donal, 1972 Aug. p 99 Walsh, John, 1960 Oct p 117 Walsh, K. A, 1964 Dec p 76 Walsh, Michael J, 1976 Mar p 32 Walsh, P J, 1969 Nov p 36 Walsh, Thomas F, 1967 Dec p 32 Walshe, Barbara, 1951 Oct. p 69, 70 Walshe, J M., 1966 May p 45, 1968 May p III Walsingham, Francis, Sir, 1977 Nov p 142 Walske, Carl, 1978 June p 74 Walske, M Carl Jr, 1972 Nov p 21 Walter and Eliza Hall Institute of Medical Research, 1964 Dec. p 106 Walter, Carl, 1954 Feb p 57, 1961 July p 61 Walter, David, 1974 Nov p 87 Walter, Grey, 1962 June p 143 Walter, Leo, 1953 Sept. p 80 Walter, Richard, 1969 June p 49 Walter, T J, 1976 Feb p 113 Walter, W Grey, 1954 June p 57, 62, 1959 Aug p 91, 1970 Mar p 68 Walter, William, 1973 Feb p 89 Walters, Daniel A., 1972 Sept p 78 Walters, Richard H., 1964 Feb p 39, 1968 Aug. p 94 Walther, Fniz, 1961 Dec p 116, 119 Walton, Ernest T S, 1948 June p 29, 1950 Sept p 30, 1952 Jan p 38, 1958 Mar p 68, 1967 Nov p 28, 1970 Aug. p 24 Walton, Harold F. 1951 Mar p 41, Nov p 28, 1952 July p 65, 1955 Feb p 91, Aug. p 39, 1958 Aug. p 32, 1966 May p 40, 1971 Feb p 22 Walton, Izaak, 1974 May p 33 Walten, John R., 1963 Apr p 70

Walton, Michael, 1972 May p. 84, 1977 Mar Walton, Ray D Jr, 1976 July p 46 Walvig, Finn, 1965 Nov p 112, 114 Walz, Alfred, 1976 Jan p 75 Walzl, Edward M, 1948 Oct p 34 Wampler, E Joseph, 1969 Jan p 33, Mar p 49, 1970 Mar p 38, 1971 Jan p 49, 50, 1972 Apr p 47 Wanamaker, John, 1959 Nov p 99 Wang, A, 1977 Feb p 82 Wang, An-Chuan, 1974 Nov p 69 Wang, Andrew H-J, 1978 Jan p 59 Wang, Daniel I C, 1978 Apr p 85 Wang, F W, 1973 Feb p 59 Wang, K C, 1964 Jan p 81 Wang, K P, 1961 Feb p 67 Wang, Nai-San, 1973 Apr p 74, 80 Wang, Tung-Yue, 1975 Feb p 52 Wangensteen, Owen H, 1962 July p 74 Wanke, H, 1965 Oct p 35 Wankel, Felix, 1969 Feb p 90, 95, 1972 Aug p 14, 16, 17, 23 Wapner, S, 1959 Feb p 51 Warburg, Otto, 1948 Aug p 29, 30, 1949 Sept p 14-16, 1950 June p 33, Sept p 63, 66, Dec p 47, 1958 July p 56-58, 1959 Apr p 156, Oct p 97, 1961 May p 55, 1967 June p 72, Nov p 27 Ward, Alan, 1977 Mar p 119 Ward, Darrell N, 1956 Sept p 113 Ward, Fred W, 1968 Jan p 109, 110, 1970 July p 78, 1975 Apr p 113 Ward, H M, 1949 Aug p 27 Ward, Joan S, 1968 Jan p 24, 1974 Oct p 87, Ward, John, 1954 Dec p 98, 1966 June p 50, 52, 1978 Feb p 129 Ward, Julian E, 1959 June p 82 Ward, Leslie, 1973 Dec p 111 Ward, Peter, 1973 Nov p 65 Ward, Robert, 1966 July p 33 Ward, Seth, 1967 Aug p 97 Ward, William R., 1973 Jan p 61, 1975 Sept p 117, 154, 38, 1978 Mar p 77 Warden, Herbert E, 1960 Feb p 82 Wardlaw, A. C., 1968 Mar p. 71 Wareing, P. F., 1968 July p. 78, 79 Waring, Edward, 1950 Sept p 42 Waring, Michael, 1970 Apr p 26, 1974 Aug p 85 Warner, A, 1969 July p 36 Warner, Brian, 1969 July p 52 Warner, Fred D, 1974 Oct p 47, 50, 51 Warner, John C, 1948 Oct p 24, 1949 Feb p 17, 1953 Aug p 41, 1958 Feb p 40 Warner, Jonathan R, 1963 Feb p 69, Dec p 45, 53 Warner, Noel A, 1962 Nov p 54, 55 Warner, Noel L, 1974 Nov p 60 Warner, Robert C, 1966 Feb p 37 Warner, Roger S Jr, 1949 July p 33 Warner-Lambert Research Institute, 1966 June p 100 Warnke, Paul C, 1974 May p 24, 1977 Apr p 52 Warnock, John, 1970 June p 73, 74, 79, 81 Warren, B E., 1961 Jan p 94, 96 Warren, Bruce A, 1976 May p 60 Warren, Charles R, 1958 Feb p 59 Warren, D C, 1956 Feb p 45 Warren, Earl, 1969 Feb p 15 Warren, Eugene R, 1969 Feb p 15, 16 Warren, H V, 1957 July p 46 Warren, J M, 1968 June p 68 Warren, James V, 1974 Nov p 96 Warren, Joseph, 1949 Dec p 28

Warren, Minnie, 1967 July p 103 Warren, R W, 1964 Dec p 81, 83 Warren, Richard M, 1970 Dec p 30, 35 Warren, Robert, 1970 Nov p 26 Warren, Robert E, 1961 Oct p 148 Warren, Roslyn P, 1970 Dec p 30 Warren, Shields, 1949 July p 26, 33, 1950 May p 26, 1953 Feb p 35, 1955 Oct p 28, 1956 July p 48, 1957 Aug p 57, 1959 Sept p 219 Warsaw Pact, 1966 Jan p 46, 1970 May p 24, 56, 1977 May p 53, 1978 May p 44-51 Warshawsky, Hershey, 1969 Feb p 103 Warwick, Donald P, 1974 Sept p 64 Warwick, James W, 1964 July p 36 Wasdin, Eugene, 1963 Mar p 128 Washburn, Alfred H, 1953 Oct p 65-67, 72, 73. Washburn, Bradford, 1955 Sept p 85, 1970 June p 108 Washburn, J., 1955 July p 86 Washburn, Jack, 1967 Sept p 97 Washburn, Sherwood L, 1960 Sept p 76, 1962 May p 138, Dec p 61, 1967 Apr p 62, 1973 Jan p 33, 1975 Jan p 71, 1978 Apr p 99 Washburn, Stanley, 1960 Sept p 76 Washington Children's Hospital, 1966 May p 43 Washington, George, 1949 Dec p 57, 1954 Oct p 73, 1960 Feb p 38, Oct p 158, 1967 June p 20, 1968 Sept p 191, 1970 Dec p 102, 1973 Nov p 71, 1976 July p 118, 123 Washington, Henry S, 1960 June p 148 Washington National Airport, 1966 Dec p 74 Washington State Supreme Court, 1950 Jan p 30 Washington University, 1949 May p 28, 1956 Apr p 60, 1957 Sept p 189, 1958 July p 52, Aug p 58, 61, 66, 82, 1962 Apr p 68, 1964 Oct p 29, 1970 Apr p 94, 97, 1975 Aug p 98 Wassen, Anders, 1962 Aug p 56, 1967 Apr p 79 Wasserburg, Gerald J, 1960 Apr p 85, 1971 Jan p 45, 1974 Jan p 74, 75, July p 47, 1975 Jan p 31, 1977 Jan p 89, 1978 Jan Wasserman, August von, 1968 Apr p 73 Wasserman, E, 1960 Nov p 94 Wasserman, Karlman, 1963 June p 83, 1974 Junep 51 Wasserman, Paul M., 1975 July p 48 Wasz-Hockert, Ole, 1974 Mar p 84 Watanabe, Akıra, 1963 Mar p 58 Watanabe, Astushi, 1966 June p 79 Watanabe, Tsutomu, 1968 Jan p 45, 1973 Apr p 19, 1975 July p 28 Waterhouse, Benjamin, 1976 Jan p 117 Waterhouse, George R, 1963 Jan p 118 Waterman, Alan T, 1949 Feb p 12, 15, 1951 Apr p 32, June p 30, 1952 Apr p 37, 1953 Mar p 44, 1954 Mar p 30-32, 1958 Mar p 54, 1961 Jan p 78, Aug p 62, 1963 May p 74 Waterman, Talbot H, 1955 Aug p 58, 1976 July p 107 Waterson, A P, 1963 Jan p 55, Oct p 48 Watkin, J E, 1964 June p 86 Watkins, Gary, 1970 June p 56, 79 Watkins, J C, 1972 Feb p 34 Watkins, Julian F, 1965 Apr p 62, 1969 Apr p 30, 1972 Nov p 72, 73 Watkins, Richard E., 1969 May p 26 Watkins, Ron, 1978 Apr p 99 Watkins, T B, 1966 Aug. p 28, 30 Watkins, William A., 1966 Nov p 74 Watkins, Winifred, 1977 June p 111 Watling, J L, 1965 Oct p 47

Wats, Gilbert, 1972 Aug p 79 Watson, Cecil, 1957 Mar p 140 Watson, D J, 1970 Feb p 93 Watson, D M S, 1953 Dec p 69 Watson, Dennis W, 1966 June p 98 Watson, Fletcher G, 1951 July p 23, 1954 Mar p 32, 1960 Feb p 132 Watson, G N, 1977 Apr p 125, 126 Watson, Herman C, 1961 Dec p 98, 1964 Nov p 73, 1965 Sept p 86, 1966 June p 52, 1974 July p 77, 81 Watson, Hewett, 1956 Feb p 67 Watson, James C, 1949 Sept p 29 Watson, James D, 1953 May p 39, Sept p 105, 1954 Oct p 57, 1955 Oct p 70, 71, 74, 1956 May p 62, Oct p 88, 90, 1958 Mar p 122, Apr p 50, June p 37, Nov p 54, 1959 Dec p 56, 1961 July p 66, Aug p 64, Sept p 76, 1962 Jan p 72, 83, 84, Feb p 42, July p 109, 110, Aug p 53, Dec p 66, 1963 Jan p 48, Mar p 80, 1964 May p 51, 1965 Aug p 75, 1966 Jan p 37, Dec p 34, 1967 May p 80, Nov p 27, 28, 1968 Jan p 39, Aug p 43, Oct p 64, 70, 1969 Oct p 28, Dec p 49, 1971 Feb p 47, 1972 Dec p 84, 86, 88-91, 1978 Jan p 59 Watson, John B, 1948 Dec p 22, 1950 Sept p 79, 1956 Jan p 39, 1963 Apr p 118, Oct p 116, 121, 122, 1972 Aug p 26 Watson, Michael, 1957 July p 132, 136 Watson, Michael L, 1962 Apr p 71 Watson, Paul C, 1978 Feb p 68 Watson, R M, 1971 July p 86 Watson, Rulon, 1974 Oct p 39 Watson, Thomas J Jr, 1966 Mar p 55 Watson, William, 1974 Mar p 92 Watson, William W, 1964 Sept p 84 Watson-Watt, Robert, Sir, 1949 Apr p 27, 1952 Mar p 38, 1958 Dec p 53 Watt, James, 1948 July p 52, Oct p 21, 1949 Dec p 34, 1952 Sept p 101, 102 50, 59, 1953 Nov p 65, 1954 Jan p 72, Apr p 64, Oct p 72, 1960 Sept p 187, 1963 Sept p 55, 56, 1964 Jan p 98, 100, 104-107, Sept p 188, 189, 1965 Jan p 82, June p 115, July p 95, 1967 Mar p 105, 108, 110, 1969 Apr p 104, Aug p 108, 113, 1970 Oct p 117, 118, 1971 Oct p 97, 98, 1972 May p 102, 1974 Aug p 92 Watten, Raymond H, 1971 Aug p 17 Wattiaux, Robert, 1963 May p 71 Watts, C Robert, 1971 June p 112 Watts, H M, 1970 Oct p 69 Watts, Harold, 1972 Oct p 23 Watts, James W, 1948 Oct p 37, 1950 Feb p 44, 47 Watts, Robert G, 1976 Jan p 63 Wattson, Richard B, 1962 Aug p 36 Watts-Tobin, Richard J, 1962 Mar p 69 Oct Watzenrode, Lucas, 1973 Dec p 88 Waud, Russell A, 1954 Aug p 26 Waugh, Nancy C 1968 Mar p 83 Waung, Hsi-Fong, 1975 July p 41 Wawzonek, Stanley, 1967 Apr p 50 Way, E. Leong, 1977 Mar p 46 Way, J T, 1950 Nov p 48 Waymack, W W, 1949 June p 26 Wayne State University 1966 May p 50 1970 Nov p 44 Wayne State University College of Medicine 1962 Mar p 60 Wayne University, 1958 July p 52 Wazırı, Rafiq, 1970 July p 64, 70 Weakland, John H. 1962 Aug. p 71 Weakliem, H A, 1966 July p 103 Weart, Harry W, 1967 Feb p 86, 88

Weaver, Harold F, 1961 Dec p 76, 1965 July p 29, 1966 Jan p 48, 1968 Dec p 38 Weaver, James B, 1964 Mar p 57, 1965 Nov p 26, 27 Weaver, John C, 1978 June p 83 Weaver, John H., 1977 June p 32 Weaver, M E., 1966 June p 100 Weaver, Robert, 1978 Jan. p 81 Weaver, Thomas, 1973 Nov p 48 Weaver, Warren, 1949 July p 11, 14, Dec p 30, 1951 June p 43, 1953 Feb p 34, May p 54, 1954 Feb p 42, 1955 Feb p 52, 77, 1956 Jan p 29, 30, Feb p 77, July p 48, Aug p 49, 1958 Feb p 42, 1959 Dec p 110, 1963 May p 75, 1965 Nov p 48, 1972 Sept p 32-35 Webb, H M, 1954 Apr p 35 Webb, J H, 1949 Oct p 26, 1952 Nov p 32 Webb, James E, 1961 Apr p 76 Webb, Marguerite, 1975 Feb p 73 Webb, Walter P, 1963 Sept p 226 Webb, Watts R., 1965 June p 57 Webbe, Edward, 1968 Oct p 116 Webber, Irma E, 1949 Dec p 55 Webber, Melvin, 1965 Sept p 200 Weber, Alfons, 1968 Sept p 124 Weber, Annemane, 1970 Apr p 86, 1974 Oct p 50, 1975 Nov p 37, 38 Weber, C A, 1958 Oct p 120 Weber, Ernst, 1948 Sept p 44, 1959 Aug p 75 Weber, Hans H, 1952 Dec p 19, 1961 Sept p 200 Weber, J, 1958 Dec p 42 Weber, John H, 1976 May p 42, 43 Weber, Joseph, 1970 Mar p 58, 1971 May p 22, 1972 May p 46, 1973 Feb p 48, 1975 Nov p 60 Weber, Klaus, 1969 Nov p 58, 1978 Apr p 72 Weber, Max, 1977 Mar p 107, Nov p 151 Weber, Richard, 1973 Mar p 90 Weber, Rudolf, 1963 Nov p 117, 1967 Nov Weber, Sylvia, 1973 Feb p 48 Weber, Wilhelm, 1948 Sept p 44, 1954 Nov p 80, 1955 June p 66, 67, 1959 Aug p 75, 1973 July p 29-31, 1977 July p 124, 129, 130 Webster, A G, 1960 Oct p 151, 1973 July p 24 Webster, Adrian, 1974 Aug p 26 Webster, Donald M, 1971 Mar p 100 Webster, Edward, 1959 July p 67 Webster, Fredenc, 1965 Apr p 95, 101 Webster, George C, 1964 Jan p 72 Webster, J C, 1973 Oct p 102 Webster, John C, 1962 Apr p 145 Webster, Leslie T 1949 Sept p 19 Webster, Louise 1975 Mar p 28 Webster, M E. 1962 Aug. p 114, 118 Webster Medford S, 1964 Oct p 39, 40 Webster, Noah 1954 Oct p 34, 1955 Aug. p 81 Webster, Robert G. 1977 Dec p 88, 92, 104 Webster T F 1970 July p 77 Webster Thomas A 1970 Dec p 80 Webster, William T., 1951 June p 30 Weckler J E. 1957 Dec p 89 Weddell James 1962 Sept p 64, 1969 Aug. p 101 Wedgwood Emma 1956 Feb p 64 Wedgwood Josiah 1969 July p 46 Wedgwood Thom is, 1952 Nov p 30, 31 Weekes Trevor C 1977 Jan p 39 Weeks James R 1965 Feb p 83, 1971 Nov p 87 Weeks K 1955 Sept p 132 Weeks Levis G 1948 Sept p 13, 1956 Oct p 45 Weeks, Sinclair 1953 May p 53, June p 44,

Oct p 51, Dec p 50, 1955 Mar p 51, 1956 July p 48 Weertman, Johannes, 1962 Sept p 146, 1969 Mar p 33 Weesner, Frances, 1953 May p 78 Weetall, Howard H, 1971 Mar p 31 Wefel, J P, 1969 June p 37 Wefers, Bernie, 1976 June p 114 Wegener, Alfred L, 1949 June p 17, 1950 May p 38, 40, 1959 Oct p 82, 1963 Apr p 86, 87, 89-91, 99, 1968 Apr p 53, 59, 1969 Nov p 104, 105, 119, 1970 Oct p 30, 41, 1972 Nov p 57, 1975 Feb p 88, 90-97, 1977 Apr Wegener, Jonathan, 1962 Jan p 47 Wegener, Kurt, 1975 Feb p 88 Weger, Meier, 1971 Nov p 30 Weglarska, Barbara, 1971 Dec p 32, 33 Wegner, G, 1961 July p 58 Wegner, Harvey E, 1962 Oct p 86 Wehnelt, A. R. B., 1950 Oct p 33 Wei, Eddie T F, 1977 Mar p 56 Wei Po-Yang, 1952 Oct p 73 Weibull, Claes, 1951 Jan p 21, 23, 24, 1960 June p 137, 1975 Aug p 39 Weibull, W, 1950 Aug. p 43, 44 Weidel, W, 1966 Nov p 88 Weidemann, Volker, 1959 Jan p 52 Weidenreich, Franz, 1949 Nov p 22, 1960 Sept p 113, 1970 Jan p 77, 1972 Jan p 102 Weidenschilling, S. J., 1975 Sept. p. 159 Weidhaas, Donald E., 1962 Oct p 63 Weidman, Rita, 1960 Dec p 118 Weidman, Silvio, 1970 May p 80 Weidman, Uli, 1960 Dec p 118 Weierstrass, Karl, 1954 Apr p 84, 87, 1971 Aug p 94, 1972 June p 78, 80-82, 86, 1973 Mar p 101, 103 Weigand, Heribert, 1959 Jan p 66 Weigert, Alfred, 1975 Mar p 29 Weigert, Karl, 1948 Oct p 30 Weigert, Martin G, 1965 Aug p 44 Weigl, Rudolf, 1953 June p 80 Weigle, Jean J, 1970 Jan p 88 Weil, Andre, 1957 May p 93, 94, 99, 1977 July Weil, Andrew T, 1969 Dec p 20, 24 Weil, George, 1955 July p 50 Weil, Max H, 1964 Mar p 42 Weil, Paul, 1950 Mar p 34 Weil, Robert J., 1951 June p 38, 1954 Mar p 42 Weil, Rudolf, 1977 Apr p 44 Weil Simone, 1957 May p 93 Weiland I Hyman, 1973 May p 24, 27 Weiler, K W, 1970 Aug p 44 Weiler, Reto, 1976 July p 110 Weimar, Virginia 1951 June p 62 Weinberg, Alvin M., 1953 May p. 53, 1954 Dec p 53, 1955 July p 48, May p 50, 1958 Dec p 53, 1961 Mar p 82, 1963 Jan p 59, 1967 May p 25 Weinberg Gladys 1959 June p 61 Weinberg S Kirson, 1952 May p 44 Weinberg, Steven, 1967 Nov. p 59, 1971 Nov. p 48, 1972 Nov p 50 1973 Nov p 49, 1974 Feb p 72, 80 Dec p 108 114, 1975 Jan p 49. Oct p 47 1976 Jan p 48. Nov p 55, 1977 May p 56 1978 Feb p 129 Weindling, Richard 1949 Mar p 48 Weiner, Daniel 1964 Apr p 49 Weiner, J S, 1954 Jan p 38, 1966 Nov p 52 Weiner, Louis 1963 Aug. p 23 Weinheimer, Alfred J. 1971 Nov p 89 Weinreb, Neal 1973 Aug. p 90 Weinreb, Sander, 1965 July p 27-29 1966 Jan p 49, 1968 Nov p 56, Dec p 37 40, 1974

May p 110 Weinreich, Gabriel, 1962 Jan p 62, 1963 July p 42, 1964 Apr p 39, 40 Weinrich, Marcel, 1961 July p 50 Weinstein, I Bernard, 1963 Aug. p. 50 Weinstock, Alfred, 1969 Feb p 105 Weinstock, B, 1949 June p 37, 1958 June p 35 Weinstock, Bernard, 1964 May p 69 Weinzierl, Jon, 1978 Jan p 59 Weir, A., 1965 June p 101 Weisbach, Julius, 1967 Jan p 65, 66 Weisberg, Leonard R, 1967 Dec p 72 Weisberger, William I, 1967 Nov p 59 Weisblum, Bernard, 1962 Sept p 108, 1963 Jan p 61, Mar p 86, 91 Weis-Fogh, Torkel, 1950 May p 29, 1958 Jan p 31, 1967 May p 52, 1968 May p 85, 1971 June p 47, Aug p 76, 77, 1972 June p 73, 1973 Nov p 94, 98, 1975 Nov p 81 Weiskopf, V F, 1948 Nov p 24 Weiskrantz, L., 1971 July p 45 Weisman, Avery D, 1968 Oct p 60 Weismann, August, 1957 Nov p 82, 84, 1959 May p 65, 1961 Sept p 74, 1968 June p 86, 88, Dec p 24 Weisner, Jerome B, 1966 Aug p 40, 1971 Nov p 48 Weiss, Armin, 1971 Nov p 31 Weiss, Bernard, 1968 Oct p 75 Weiss, David W, 1977 May p 73 Weiss, Esther A, 1958 Nov p 40, 1969 Jan p 38, 1975 Mar p 97 Weiss, Francis J, 1952 Apr p 36 Weiss, Joseph, 1953 Nov p 82 Weiss, Leopold, 1969 May p 64 Weiss, Martin, 1973 Aug p 89 Weiss, Mary C, 1968 Jan p 46, 1969 Apr p 26, 30, 33, 1971 Apr p 112, 1974 July p 36, 38, 43, 1978 Feb p 120 Weiss, Paul, 1949 June p 45, 1955 Feb p 53, 1957 Nov p 87, 88, 1959 May p 138, 144, Nov p 70, 73, 1961 Sept p 155, 1977 July p 67 Weiss, Pierre, 1955 Jan p 69, 1967 Sept p 222, 224, 228 Weiss, Pierre-Ernst, 1971 June p 78 Weiss, Samuel, 1961 Aug. p 64, Sept p 82, 1962 Feb p 45, 1963 Mar p 83 Weissbach, Herbert, 1965 July p 54 Weissenberg, Karl, 1959 Dec p 136 Weisskopf, Victor F, 1953 Dec p 43, 1955 May p 56, 1956 July p 48, 1957 Sept p 107, 1958 Dec p 53, 1959 Jan p 79, 80, 82, 1960 July p 75, 1964 Mar p 54, 86, 1968 Aug. p 43, Sept p 51, 1969 Aug p 61, 1975 Jan p 49, Feb p 40, Sept p 53, 1978 Feb p 76 Weissman, Gerald, 1963 May p 72, 1975 Apr Weissman Institute of Science, 1977 June p 108, Weissmann, Charles, 1971 Mar p 32 Weissmann, Ernest, 1949 Mar p 27 Weissmann, Gerald, 1967 Nov p 69, 72. Weisz, John D, 1958 Oct p 96 Weisz, Judith, 1976 July p 56 Weisz, Paul B. 1953 Mar p 76 Weiszacker, Carl F von 1948 May p 44, 1949 Oct p 43-45, Dec p 29, 1950 Jan p 43, 1952 Oct p 55, 56, 1953 Mar p 34, 1967 June p 36, Nov p 105, 1969 July p 30, 1973 Oct p 111 Weitnauer, E., 1954 July p 61 Weitzel, Daniel H., 1957 Oct. p. 56 Weitzman, Lenore J. 1974 Sept p 146 Weizmann, Chaim, 1956 Nov p 79 Weizmann Institute of Science, 1949 Oct p 29, 1962 Mar p 64, 1965 Nov p 30, 1976 Nov

Index to Proper Names Welch

p 57, 1977 Oct p 97 Welch, Charles K, 1973 Mar p 87 Welch, Henry, 1952 Apr p 56, 1955 Dec p 52 Welch, Richard M, 1975 June p 30 Welch, W Keasley, 1978 Apr p 64 Welch, William J, 1969 Feb p 42, Apr p 50, 1973 Mar p 53 Welde, Christine V, 1963 Nov p 104 Welder Wildlise Refuge, 1971 June p 112, 116, 118 Weldon, W F R, 1954 Jan p 73, 74 Weliachew, Leonid N , 1971 Sept p 80 Weliky, Norman, 1971 Mar p 31 Welker, Wallace, 1954 Feb p 71 Welkome Foundation, 1963 Nov p 106 Wellcome Research Laboratories, 1971 July p 26, 1977 Apr p 48, July p 46 Weller, Thomas H, 1952 Nov p 27, 1954 Dec p 52, 1959 Feb p 89, 1960 Dec p 90, 1962 Sept p 104, 1966 July p 32, 34, 1967 Nov p 25, 28, 1975 Feb p 41 Welles, Orson, 1954 Mar p 39 Wellesley College, 1965 July p 55 Wellhausen, Edwin J, 1976 Sept p 129, 36 Wellings, S R, 1969 July p 59 Wellington, Kelvin, 1975 Aug p 34, 35 Wells, C, 1978 Jan p 111 Wells, Carolyn, 1950 Jan p 18 Wells Fargo Bank, 1966 Sept p 147 Wells, H G, 1949 Nov p 40, 1952 Jan p 60, 1961 Mar p 104 Wells, Horace, 1957 Jan p 72 Wells, Ibert C, 1951 Aug p 57, 1974 Sept p 81, 1975 Apr p 46 Wells, John W, 1963 May p 78, 1966 Oct p 26-28, 1972 Apr p 48 Wells, Joyce, 1965 Mar p 48 Wells, Mark B, 1964 Sept p 207 Wells, Martin J, 1965 Mar p 43, 48 Wells, Peter N T, 1978 May p 98 Wells, Robert D, 1965 June p 57, 1974 Aug Wells, Ronald A, 1970 Mar p 62 Wells, William C, 1959 May p 62, 1969 June Wells, William F, 1951 Feb p 43 Wels, Phihp B, 1963 Mar p 118 Welsbacch, Carl A von, 1951 Nov p 29, 30 Welsh, J H, 1954 Apr p 34 Welsh National Museum, 1974 Dec p 124, 125, 127, 128 Weltha, David A, 1978 Apr p 78 Welther, Barbara, 1963 Apr p 66 Welton, M G E, 1966 June p 56 Welty, Carl, 1956 June p 51, 1962 June p 137 Wenckebach, Karl, 1965 June p 115 Wendell, Oliver C, 1977 Feb p 30 Wendelstadt, G, 1970 Dec p 77 Wender, Irving, 1955 July p 62 Wender, P H, 1973 Sept p 123 Wendler, Gernot, 1968 May p 85 Wendorf, Fred, 1954 Sept p 76 Wenger, M A, 1972 Feb p 85 Wenham, Francis, 1977 Aug p 98 Wenk, Edward Jr., 1969 Sept p 121, 64 Wenner, Adrian M, 1962 Dec p 70, 1967 Apr p 99, 1970 Oct p 60 Wenner-Gren Foundation for Anthropological Research, 1956 Apr p 61, 1964 Apr p 94, 1965 Apr p 83, May p 50, 1970 Mar p 53 Wennmalm, Ake, 1971 Nov p 91 Wensink, Pieter, 1973 Aug p 20, 26, 28, 29 Went, Frits W, 1949 Mar p 50, 51, May p 40, 1957 Apr p 125, 126, 128, 129, 1962 Oct p 116, 117, 1968 July p 76, 1973 Dec p 63, 1975 July p 93, 1976 Sept p 170 Went, Hans, 1961 Sept p 110

Wentorf, Robert H Jr, 1955 Apr p 47, Nov p 46, 1957 Apr p 69, 1960 Jan p 74, 1974 Aug p 62, 1975 Nov p 105 Wentworth, John, 1948 June p 51 Wentzel, Gregor, 1952 Jan p 27, 1960 Oct p 153 Wenyon, Charles, 1953 Feb p 86 Wenzel, Martin, 1966 Nov p 88 Wenzel, William, 1956 June p 41, Nov p 64 Werbhn, Frank S, 1978 Feb p 97 Wergin, William P, 1970 Nov p 24 Werle, E, 1962 Aug p 111, 116 Werner, Alfred, 1967 Nov p 26 Werner, J H, 1960 Dec p 92 Werner, L B, 1950 Apr p 47, 1954 Feb p 76 Werner, Samuel A, 1976 Jan p 61 Wernholm, Olle, 1972 Apr p 23 Wernick, Jack H, 1962 June p 63, 66 Wernicke, Carl, 1972 Apr p 76, 78-83 Wernwag, Louis, 1954 Nov p 66 Wertham, Fredric, 1949 June p 50, 51 Wertheim, G K, 1971 Oct p 91, 92 Wertheim, Gunther, 1955 Sept p 102 Wertheimer, Max, 1956 Aug p 42, 1963 Apr p 118, 120, 125, 1964 Oct p 99, 100, 1965 Feb p 42, 1974 July p 93, 103, 1975 Oct p 97, 103 Wescott, Barbara, 1963 Aug p 93 Wesley, Frank, 1968 June p 73 Wesley, John, 1958 June p 74, 1960 Sept p 192, 1968 Jan p 84 Wesleyan University, 1963 Jan p 78 Wess, Julius, 1978 Feb p 136 Wessel, Caspar, 1964 Sept p 54 Wesselink, A J., 1953 June p 64, 1959 July p 53, 1964 Jan p 32, 37 Wessells, Catherine T, 1956 Feb p 78 Wessells, Norman K, 1969 Mar p 37, 1971 Oct p 77 West, Charles A, 1956 Oct p 72 West, G B, 1955 May p 80 West, John B, 1948 Dec p 27 West, Louis J, 1977 Oct p 140 West, Philip M, 1952 June p 34, 1961 June p 139 West, Robert, 1964 July p 94 West, Roger, 1972 Feb p 27 West Virginia Agricultural Experiment Station, 1952 May p 36, 1953 Aug p 38 West Virginia Pulp & Paper Co , 1951 Apr p 34 Westerhout, Gart, 1959 Dec p 95, 103, 1964 Aug p 14, 1968 Dec p 38, 1973 Apr p 37, 1978 Apr p 114 Westerlund, B E, 1963 Oct p 60, 1964 Jan p 34, 35, 38, 38-40 Westermann, William L, 1974 Sept p 95 Westermarck, Edward, 1956 May p 70 Western Corporation, 1968 Sept p 92 Western Electric Company, 1949 Sept p 28, 1953 Mar p 30, 1955 Aug p 47, Oct p 50, 1965 Mar p 93, 99, Nov p 62, 66, 68, 1967 Jan p 58, 1968 Apr p 23, 1975 Dec p 24, 1976 Dec p 53, 1977 Aug p 48 Western Geophysical Company of America, 1977 Oct p 87 Western Oil and Gas Association, 1952 May Western Reserve University, 1958 July p 52, 1960 Dec p 100, 1961 May p 69, 1964 Nov p 111, 1965 Dec p 70, 1969 Apr p 28, 1973 Sept p 81 Western Union and Postal Telegraph, 1965

Mar p 95, 1966 Sept p 130, 154, 1977 Feb

Westerskov, K. E., 1970 Nov p 84 Westervelt, Donald R., 1962 Feb p 73, 1977

Apr p 52 Westfall, Richard S, 1963 Sept p 88, 1973 Apr p 44 Westgren, Arne F, 1968 July p 66 Westhermer, Frank H, 1957 Nov p 117 Westing, Arthur H, 1971 Feb p 44, 1972 May Westinghouse Electric Corporation, 1949 Feb p 41, Mar p 24, Apr p 26, July p 38, 1950 June p 27; 1951 June p 20, 1952 July p 36, 1953 Mar p 44, Nov p 67, 71, Dec p 48, 1954 Apr p 64, July p 38-40, 1955 July p 48, 1957 Dec p 68, 1958 Feb p 46, Nov p 60, 1962 Mar p 78, June p 62, 66, 1964 Jan p 115, Feb p 103, May p 40, 64, Aug p 77, 1965 Nov p 68, 1966 Sept p 194, 200, 1967 Aug p 44, 1968 Feb p 27, 28, 29, 31, 1971 Jan p 77, Sept p 157, Oct p 91, 1973 Aug p 13, 1974 Jan p 23, 1975 Mar p 48, 1977 Oct p 91, 92 Westinghouse, George, 1948 Oct p 25, 1953 Feb p 35, 1973 Apr p 45 Westoff, Charles F, 1972 Oct p 46, 1974 Sept p 32, 1978 May p 81 Westphal, Heiner, 1968 Nov p 56 Westphal, James A., 1965 Oct p 42, 1968 Aug Westphal, W, 1969 Jan p 105 Westwater, J. W., 1968 July p. 95 Wetherald, R. T., 1970 Sept. p. 183 Wetherell, A. M., 1973 Nov. p. 41 Wetherill, George W, 1957 Feb p 58, 1975 Jan p 29, Sept p 159, 67, 1976 July p 40, 1977 Jan p 89, Mar p 100 Wetmore, F Alexander, 1951 June p 32 Wettstein, Albert, 1955 Sept p 76 Wettstein, Felix O, 1963 July p 66, Dec p 46, 1964 Mar p 55 Wettstein, Fritz von, 1950 Nov p 31 Wever, Ernest G, 1973 Oct p 99 Wexler, Harry, 1952 Aug p 58, 1953 Jan p 34, 1954 May p 37, June p 36, 1956 July p 48, Dec p 40, 1958 Feb p 59, 1962 Sept p 128 91, 94, 1969 Jan p 52, 61, 1971 Jan p 40 Wexler, Solomon, 1968 Oct p 52 Weyant, W S, 1962 Sept p 91, 94 Weye, Hermann, 1951 May p 36 Weyer, Edward M Jr 1971 Sept p 105 Weyerhaeuser Company, 1971 Nov p 101, 102 Weyl, Hermann 1949 Mar p 54 1950 Sept p 41, 1956 Sept p 157, 1964 Sept p 129 130, 68, 1967 Dec p 112, 1975 May p 52 1978 Feb p 141 Weyl, W, 1967 Feb p 77, 1977 July p 93 Weylard, John, 1966 Nov p 135 Weymouth, George 1948 June p 50 Weymouth, Thomas, 1948 June p 50 Wezel, A L van, 1978 Apr p 85 WF Loomis 1957 Dec p 118 Whalen Richard E 1976 July p 51 Whang Jacqueline J 1964 May p 90 Wharton Charles 1966 Dec p 31 Wharton Clifton R Jr 1977 Dec p 87 Wharton Lennard, 1968 Oct p 44 49 Wharton, Thomas 1960 Mar p 119 1971 June p 95 Whatley, Frederick R 1960 Nov p 105 Wheatley John C 1969 Dec p 31 33 1974 Dec p 66 1976 Dec p 68 Wheatstone, 1959 Nov p 174
Wheatstone, Charles Sir 1954 July p 73 75
76, 1965 Feb p 46 1966 July p 44 1972
76, 1965 Feb p 46 1966 July p 44 1972 Feb p 51, 52, Aug p 86 1976 Mar p 80 Wheeler, D J, 1952 Feb p 40 Wheeler, John A. 1948 June p 27 36 38 1949 Mar p 29, July p 43, 1962 Aug p 93 1965 Aug p 49-51, 1967 Jan p 106 107, June

Oct p 49, 1977 Apr p 123

p 28, Nov p 92, 1969 Apr p 63, 1971 Jan

p 51, 52, Mar p 44, 1972 Nov p 20, 1973

Wheeler, Mortumer, Sir, 1956 Nov p 68, 1971

June p 111 Wheeler, Paul C, 1967 Mar p 50 Wheeler, Raymond A., 1963 Apr p 49 Wheeler, Tamara S, 1977 Oct p 122 Wheeler, William M, 1948 June p 18, 1950 July p 53, 1963 Apr p 148, 1975 June p 32, Dec p 110 Wheelock, Charles D, 1960 Dec p 64 Whelan, M J, 1967 Sept p 96 Whelpton, P K., 1951 Apr p 16, Sept p 33 Whepley, William, 1963 May p 91 Wherry, Kenneth S, 1948 May p 32 Whipp, Brian J., 1974 June p 51 Whipple, Fred L, 1949 Jan p 36, Dec p 30, 1951 June p 24, 1953 Apr p 36, 98, 1954 Nov p 37, 39, 1955 July p 52, 1956 Mar p 54, Sept. p 113, 1957 Oct p 58, Dec p 37, 1958 Jan p 24, Oct p 44, 1960 Apr p 55, 1961 Nov p 79, 1962 May p 76, 1964 Aug p 16, 43, 1973 July p 68, 1975 Jan. p 29, Sept. p 144, 40 Whipple, George H, 1949 Dec p 14, 15, 1967 Nov p 27 Whistler, James McN, 1969 Sept p 55 Whiston, William, 1976 May p 98 Whitaker, Douglas M, 1951 May p 23 Whitaker, Ewen A., 1966 Jan p 62, 1967 Nov p 41 Whitby, Gordon, 1974 June p 60 Whitcomb, James H, 1973 Mar p 28, 1975 May p 18 Whitcomb, Richard T, 1969 Sept p 95 White, A. D., 1963 July p 38 White, A. H., 1973 Feb p 89 White, Abraham, 1949 July p, 1951 Dec p 47, 1965 Mar p 95 White, Arthur, 1959 Jan p 43 White, B Jack, 1956 Nov p 54 White, Burton, 1971 Oct. p 30 White, C M, 1948 Nov p 10 White, D L. 1961 Nov p 84, 1963 June p 63 White, Donald E., 1963 May p 76 White, Dwain M., 1958 July p. 50, 1962 July p 86 White, Edward, 1978 Feb p 96 White, Frank, 1952 Oct p 36 White, Gilbert F, 1963 Sept p 106, 1964 Nov p 97 White, Harvey E., 1958 Apr p 64, 1962 June p 119 White, J H, 1963 Dec p 136 White, Jack L. 1977 Dec p 140 White, James R. 1964 July p 45 White, John M. 1966 May p 61 White, Jonathan W, 1972 Apr p 95 White Keith, 1975 Mar p 73 White Kerr L. 1967 Nov p 59 White, Leslie A 1954 Sept p 57, 1956 May p 73, 1971 Sept p 131 White, Lynn Jr., 1961 June p 90, 1970 Aug. White, M. G. 1952 July p. 35, 1953 May p. 45 White, Paul D. 1952 Oct p 68, 70, 1966 No. p 65 1969 Feb p 70, 71 1975 Dec p 54 White Philip R. 1952 June p 66, 1956 Oct p 52 1965 Nov p 79 White R. H. 1974 July p 57 White, R S 1963 May p 87 White Ralph T 1956 Aug p 98 White, Robert M. 1964 Mar p. 64, 1972 Oct. p 54 60 White, Stanford, 1965 Aug. p. 19 White, Stephen, 1958 Apr p 64

White, T H, 1971 Jan p 49 White, Thomas O, 1972 Nov p 105 White, Walter, 1969 Feb p 18, 19 White, William A, 1973 July p 51 Whitehall Pharmacal Company, 1950 May p 29, Aug. p 31 Whitehead, A B, 1960 Mar p 84, Apr p 80 Whitehead, Alfred N, 1949 Aug p 40, 1950 Sept p 40, Dec p 22, 1952 Sept p 47, 1954 May p 86, 1956 June p 76, 1960 Aug. p 60, 1966 Sept p 112, 1967 July p 52, 1972 July p , 1973 Mar p 103, Dec p 64 Whitehead, E. V, 1967 Jan. p 37 Whitehorn, John, 1953 Apr p 45 Whitehouse, R. H, 1973 Sept p 40 Whitehurst, Robert, 1973 June p 34 Whiteley, Barbara, 1963 Nov p 108 Whitemarsh, R. P., 1959 Aug. p 77 Whiteoak, D B, 1974 Apr p 72 Whiteoak, J B, 1962 Nov p 72, 1965 June p 52, 1971 Dec p 22 Whiteside, D T, 1975 June p 49 Whitfield, Allen, 1952 Aug. p 52, 1955 May p 50, Dec p 52 Whitford, Albert E., 1948 July p 24, 1952 Feb p 47, Mar p 56, 58, 1954 Mar p 58, 59, 1955 May p 46, 1956 Sept p 165, 166, 1957 July p 65, 1963 Apr p 66 Whitman, C O, 1956 Nov p 128 Whitman, Charles, 1958 Dec p 69 Whitman, Loring, 1955 Mar p 69 Whitman, Walt, 1951 Sept p 43 Whitman, Walter G, 1955 Mar p 50, July p 50, Oct. p 27 Whitmore, Dean F, 1955 Jan p 57 Whitmyre, John W, 1954 Mar p 48 Whitnah, Carrell H, 1951 Oct p 33 Whitney, Charles A., 1975 June p 73 Whitney, Daniel E., 1976 Feb p 79, 83, 1978 Feb p 62 Whitney, Eli, 1952 Sept p 102, 104, 105, 1957 Nov p 47 Whitney Foundation, 1964 July p 16 Whitney, Hassler, 1966 May p 115 Whitney, Richard R., 1973 Mar p 95 Whitson, L S, 1971 Oct p 102 Whittaker, Edmund, Sir, 1950 Sept. p 42, Dec p 22, 1953 Nov p 93, 1954 June p 77, 1955 June p 67 Whittaker, Ewen, 1967 Mar p 63, 68 Whitiaker, R. H., 1978 Jan. p. 36, 39, 40, 42 Whittaker, Robert H. 1970 Sept p 68, 69, 1971 Aug. p 50, 55, 56 Whittembury, Guillermo 1962 Aug p 100 Whiten, Wesley K., 1963 May p 101, 1970 Dec p 51, 1974 May p 53 Whitungham D G, 1970 Dec p 51 Whitungton H B, 1963 Feb p 82 Whittle, Frank, Sir 1952 Mar p 38, 1953 Nov p 65, 68 Whittlesey House Publishers, 1949 Mar p 13 17, Apr p 26 Whitworth, Joseph, 1952 Apr p 73, 1963 Apr Whitworth Tom, 1977 May p 28 Whorf, Benjamin L., 1960 June p 53, 55, 1976 Jan p 101 Whur, Paul 1969 Feb p 107 Whymper Edward 1978 Apr p 149 Wiame, J M 1960 June p 134, 142 Wickens, Delos D 1966 July p 92 Wicker, Fred, 1977 May p 30 Wickham, Henry, 1956 Nov p 76 Wickler, Wolfgang, 1958 Dec p 71 Wickman, Ivar 1950 Aug. p. 22. Widdemer Mabel C. 1949 Dec. p. 56 Widdowson, Elsie M. 1972 July p. 76, 82.

Wideroe, Rolf, 1966 Nov p 109 Widmanstätten, A B, 1965 Oct p 29 Widom, Benjamin, 1969 Sept p 102 Widom, Joanne M., 1969 Sept p 102 Wiebe, Peter, 1976 Aug. p 44D Wiechert, E., 1949 Feb p 42, 1955 Sept p 56 Wied, David de, 1971 Jan p 27 Wiedemann, Gustav, 1967 Sept. p 182 Wiedemann, H R., 1962 Aug p 30 Wieder, I, 1961 June p 58 Wiegand, Clyde E., 1955 Dec p 47, 1957 July p 75, 1958 Apr p 34, 1969 July p 52 Wiel, Andrew T, 1969 Feb p 44 Wieland, Heinrich, 1955 Jan. p 54, 60, 1958 July p 57, 58, 1967 Nov p 27 Wieland, Heinrich O, 1975 Mar p 95 Wieland, Theodor H F, 1975 Mar p 94-96, Wieland, Theodore, 1951 Dec p 51 Wieland, Ulrich, 1975 Mar p 95 Wieleitner, Heinrich, 1949 Jan p 45 Wiemeyer, Stanley N , 1970 Apr p 74 Wien, Wilhelm, 1967 Nov p 26 Wiener, Alexander S, 1951 Nov p 22, 24 Wiener, Norbert, 1948 Nov p 14, 1949 July p 11, Sept p 16, 1950 Feb p 25, May p 43, Dec p 24, 1952 Apr p 83, 1954 June p 54, 1955 Apr p 58, 1956 Jan. p 29, Aug. p 44, 1962 June p 151, 1964 Sept p 105, 114, 115, 200, 1966 Sept p 247, 1967 Jan p 102, 1968 May p 95, 1969 Mar p 68-70, 1970 Oct p 111, 1972 Sept p 32, 40, 41, 1974 June p 85,88 Wiener, Otto, 1970 Mar p 114 Wienert, Helgard, 1969 June p 19 Wiercinski, Floyd, 1951 June p 62 Wiercinski, Floyd J, 1970 Apr p 86 Wiersma, C A G, 1955 July p 94 Wiersma, Cornelis A. G. 1967 May p 50, 51, 1974 Oct. p 100 Wiersum, L K., 1952 May p 52 Wiese, Konrad, 1978 Apr p 138 Wiesel, Leon L, 1966 May p 50 Wiesel, Torsten N. 1963 Nov p 54, 59, 1964 Dec p 53, 1969 May p 108, 109, 113, 1971 May p 91, June p 37, 1972 Aug p 84, 93, Sept p 49, 50, Dec p 74, 77, 75, 1973 Mar p 74, 1974 May p 48, 49, Nov p 110, 1976 Dec p 44, 45 Wiesmann, R., 1952 Oct p 22 Wiesner, Jerome B, 1950 Feb p 25, 1952 June p 38, 1957 Jan p 46, 1961 Mar p 80, Nov p 79, 1964 Oct p 56, 1966 Jan p 46, 1969 Aug. p 18, 23, 1972 Jan. p 22, Nov p 15, 1973 Mar p 44, 1978 Feb p 76, June p 83 Wigdor, Reuben, 1970 July p 58 Wiggers, Carl J 1957 May p 74, 1965 Nov Wiggins, J. R., 1955 Mar p 51 Wigglesworth, V B. 1950 Apr p 24, 1953 Feb p 32, 1958 Feb p 67, 1960 Feb p 116, June p 72, 1976 Feb p 114, 115 Wigglesworth, Vincent, Sir. 1965 Dec p 46 Wightman, E., 1978 Jan p 111 Wigner, Eugene P., 1948 June p. 32, Nov. p. 24, 1949 July p 43, 1952 Dec p 44, 1956 Aug. p 108, 1958 Feb p 48, Dec p 53, 1959 Jan p 62, 1960 June p 82, 1961 Mar p 82, 1963 Oct p 44, Dec p 64, 1964 Sept p 129, 130, 1965 Mar p 52, 1966 July p 75, 1967 Jan p 100, May p 132, Nov p 27, 28, 30, 1975 May p. 42 Wijk, Uco van, 1952 July p. 52 Wijngaarden, A. van, 1974 June p 44 Wikelgren, Barbara, 1970 July p 63 Willer, Abraham, 1965 Feb p 56

Wiktor, Tadeusz J., 1973 Jan p 25

Wilberforce, Bishop, 1954 Mar. p. 52; 1956 Feb. p. 67; 1959 May p. 66. Wilberforce, Samuel, 1969 Feb. p. 17. Wilbur B. Driver Company, 1962 June p. 65. Wilbur, Ray L., 1949 June p. 12; 1963 Aug. p. 26; 1971 Apr. p. 17. Wilchek, Meir, 1971 Mar. p. 33. Wilcock, P. D., 1969 Dec. p. 52 Wilcox, Ansley, 1963 Mar. p. 129. Wilcox, Ella W., 1958 Sept. p. 59, 60. Wilcox, John M., 1973 Oct. p. 75; 1975 Apr. p. 109. Wilcox, Kent W., 1976 Jan. p. 75. Wilcox, R. Stimson, 1978 Apr. p. 137. Wilczek, Frank, 1974 July p. 58; 1976 Nov. Wild, J. J., 1978 May p. 98. Wild, J. P., 1957 July p. 51; 1965 June p. 47; 1968 Nov. p. 56. Wild, R. K., 1974 Aug. p. 68, 69. Wild, R. L., 1967 Sept. p. 242. Wilde, Charles E. Jr., 1959 May p. 142. Wilde, Cornel, 1972 Dec. p. 91, 92. Wilde, Henry, 1961 May p. 116. Wilder, Barry, 1975 Apr. p. 93. Wilder, Dan, 1954 May p. 38. Wildermuth, Hansruedi, 1968 Nov. p. 118. Wildey, Robert L., 1965 Aug. p. 21. Wildiers, E., 1961 June p. 139 Wildt, Rupert, 1950 Oct. p. 15; 1968 Feb. p. 78; Oct. p. 51; 1974 Mar. p. 51; 1975 Sept. p. 138. Wildy, P., 1963 Jan. p. 51, 55; Oct. p. 48. Wiles, James, 1953 Mar. p. 89, 94. Wiley, Alexander, 1953 Oct. p. 50. Wiley, Harvey W., 1973 Sept. p. 163. Wiley, R. Haven Jr., 1978 May p. 114. Wiley, Robert S., 1952 June p. 50. Wilhelm, Emperor, 1949 Dec. p. 17. Wilhelm II, Kaiser, 1958 Feb. p. 77; 1965 Aug. p. 89, 95. Wilhelm, Richard H., 1966 Apr. p. 50. Wilhelms, Don, 1973 Jan. p. 55. Wilhelmy, Ludwig F., 1949 Dec. p. 35. Wiliamson, Allan, 1973 July p. 55. Wilk, Richard, 1977 Mar. p. 130. Wilke, Johann K., 1954 June p. 80. Wilkes, Charles, 1953 May p. 91; 1962 Sept. Wilkes, Donald F., 1967 Dec. p. 58. Wilkie, Douglas, 1970 Apr. p. 93. Wilkie Foundation, 1962 May p. 128. Wilkins, Bishop, 1968 Jan. p. 118. Wilkins, H. F., 1962 Dec. p. 66. Wilkins, Hubert, 1962 Sept. p. 64. Wilkins, John, 1967 Aug p. 97; 1968 Jan. p. 115. Wilkins, Lawson, 1963 July p. 60; 1971 June Wilkins, M. F., 1972 Feb. p. 31. Wilkins, Maurice F., 1954 Oct. p. 57, 58; 1962 Aug. p. 53. Wilkins, Maurice H. F., 1963 Mar. p. 80; 1967 Nov. p. 28. Wilkinson, David T., 1963 Apr. p. 139; 1965 July p. 46; 1966 May p. 54; 1967 May p. 54; 1968 Jan. p. 84; 1969 Feb. p. 59; 1970 Mar. p. 38; 1974 Jan. p. 70; Aug. p. 29; 1977 Nov. p. 72; 1978 May p. 64, 69, 70, 72, 73. Wilkinson, Denys, 1966 Feb. p. 47. Wilkinson, Geoffrey, 1973 Dec. p. 50. Wilkinson, John, 1952 Sept. p. 101, 102; 1954 Nov. p. 66; 1974 Aug. p. 97. Wilkinson, Peter N., 1975 Aug. p. 30. Wilkinson, William, 1974 Aug. p. 97. Wilks, E. M., 1974 Aug. p. 69. Wilks, John, 1974 Aug. p. 69. Wilkson, David L., 1970 June p. 29. Willard, H. H., 1949 Sept. p. 28.

Willems, George A., 1963 Nov. p. 52, 53. Willems, Ronald H., 1970 May p. 57. Willenegger, H., 1963 Apr. p. 112. Willens, Ronald H., 1960 Aug. p. 72; 1964 Sept. p. 88; 1971 Nov. p. 28. Willerman, Lee, 1971 Feb. p. 46. Willett, Hurd C., 1969 Nov. p. 62. Willey, Gordon R., 1954 Aug. p. 29; 1977 Mar. p. 119, William I, the Conqueror, 1948 June p. 51; 1950 Apr. p. 49; 1951 July p. 50; 1953 Oct. p. 84; 1958 Mar. p. 42; Sept. p. 65; 1967 May p. 72; 1970 July p. 18; 1974 May p. 41; 1976 Oct. p. 120, 127. William of Conches, 1978 Jan. p. 68. Williams, Agnes I., 1949 Feb. p. 33. Williams, Albert III, 1973 Feb. p. 77. Williams, Barbara, 1975 Feb. p. 72, 74, 75. Williams, Carroll M., 1951 Feb. p. 30; 1952 Oct. p. 35, 36; 1953 Feb. p. 32; 1956 Apr. p. 132; Oct. p. 71; 1960 Feb. p. 116; 1965 Oct. p. 39; 1966 May p. 53; 1967 Mar. p. 52; June p. 113; Sept. p. 104; Nov. p. 54; 1968 May p. 54. Williams, Cicely, 1954 Dec. p. 46. Williams, Curtis A. Jr., 1960 Mar. p. 130. Williams, David, 1965 July p. 29. Williams, David R. W., 1954 Sept. p. 81; 1966 Jan. p. 48; 1968 Dec. p. 38. Williams, E. J., 1973 Oct. p. 111. Williams, Edward R., 1963 Dec. p. 79. Williams, Edwin R., 1976 May p. 95, 96. Williams, Gareth P., 1976 Mar. p. 47, 55. Williams, George A., 1963 Nov. p. 52, 53. Williams, Henry L., 1949 Dec. p. 53. Williams, Hugh C., 1978 Feb. p. 89, 90. Williams, J. D., 1967 July p. 54. Williams, J. W., 1951 June p. 50; Dec. p. 49. Williams, James G., 1975 Jan. p. 29; Sept. Williams, John H., 1960 Apr. p. 88. Williams, K. Lloyd, 1967 Feb. p. 97. Williams, L. W., 1951 Apr. p. 66. Williams, N. H., 1948 Sept. p. 18. Williams, N. T., 1954 Oct. p. 52. Williams Research Corporation, 1977 Feb. Williams, Robert J., 1971 Mar. p. 100. Williams, Robert R., 1956 Feb. p. 48. Williams, Robley C., 1952 Jan. p. 36; 1953 Apr. p. 28; May p. 37; Nov. p. 54; 1954 Mar. p. 34; July p. 59; Dec. p. 62, 64; 1955 Feb. p. 53; 1956 June p. 43, 45, 46; 1963 Jan. p. 49. Williams, Roger J., 1958 Feb. p. 27; 1972 Jan. p. 50. Williams, Simon, 1953 Jan. p. 67. Williams, Steven, 1976 June p. 111. Williams, W., 1957 July p. 50. Williams, Walter J., 1949 July p. 33. Williams Waterman Fund, 1949 July p. 44. Williams, William A., 1971 Sept. p. 92, 94. Williams-Dean, Glenna, 1975 Jan. p. 100. Williamson, C. S., 1959 Oct. p. 57. Williamson, Hugh, 1960 Oct. p. 117. Williamson, J. M., 1963 May p. 89. Williamson, Peter, 1969 Jan. p. 111, 112. Williamson, Robert B., 1965 Jan. p. 39; 1975 Dec. p. 101. Willis, A. L., 1971 Aug. p. 45. Willis, Bailey, 1961 Feb. p. 97; 1967 Nov. p. 44. Willis, E. P., 1968 Jan. p. 118, 119. Willis, Eric H., 1971 Oct. p. 68. Willis, Francis, 1969 July p. 38, 44, 45. Willis, Frank N., 1975 Nov. p. 112. Willis, Thomas, Sir, 1958 Aug. p. 85; 1964 May p. 112, 113, 115. Willis, Tony, 1975 Aug. p. 29. Willis, William, 1956 Jan. p. 76.

Williston, S. H., 1971 May p. 19. Willius, Frederick A., 1962 July p. 41. Willmer, E. N., 1959 May p. 133. Willowa, A. O. D., 1971 Feb. p. 69. Willows, A. O. D., 1970 July p. 70. Willrich, Mason, 1975 Nov. p. 33. Wills, Christopher, 1970 Mar. p. 98. Wills, D., 1964 Nov. p. 58. Wills Eye Hospital, 1964 Oct. p. 84. Wills, Philip, 1961 Mar. p. 125, 129, 134. Willson, Thomas L., 1949 Jan. p. 17. Willstätter, Richard, 1948 Dec. p. 30, 31; 1957 Sept. p. 87; 1962 Nov. p. 94; 1964 June p. 85; 1967 Nov. p. 26; 1972 Aug. p. 36. Wilsdorf, H. G. F., 1961 Oct. p. 114. Wilsey Tool Company, 1977 Sept. p. 187. Wilska, Alvar, 1964 Dec. p. 48. Wilson, A. H., 1967 Sept. p. 83. Wilson, A. J., 1968 July p. 64. Wilson, A. Stephen, 1974 Aug. p. 73. Wilson, Alan H., 1952 Dec. p. 47. Wilson, Albert G., 1956 Mar. p. 90; 1964 May p. 78. Wilson, Alexander, 1951 Dec. p. 68; 1962 June p. 98. Wilson, Allan C., 1970 Feb. p. 46. Wilson, Andrew, 1975 Aug. p. 29. Wilson, Barry, 1957 June p. 59. Wilson, C. B., 1959 July p. 98. Wilson, C. T. R., 1949 Dec. p. 15; 1950 Sept. p. 31; 1953 Apr. p. 33-37; 1956 Nov. p. 98; 1960 Dec. p. 74; 1962 Aug. p. 38; 1967 Oct. p. 39; Nov. p. 27; 1974 July p. 60. Wilson, C. W., 1958 Aug. p. 61; 1960 Apr. p. 150; 1961 Aug. p. 54. Wilson, Carroll L., 1949 July p. 27, 33; 1950 Oct. p. 24; Dec. p. 26; 1970 Sept. p. 78; 1978 Mar. p. 42. Wilson, Charles E., 1950 Dec. p. 26; 1951 June p. 30; 1953 June p. 46; 1955 June p. 48. Wilson, Charles H., 1974 Sept. p. 174. Wilson, Charles T. R., 1949 Nov. p. 43. Wilson, Curtis, 1973 June p. 82. Wilson, Daniel, 1959 Nov. p. 170. Wilson, David J., 1964 July p. 106. Wilson, Donald M., 1959 June p. 133; 1967 May p. 52; 1971 Feb. p. 74; Aug. p. 76; 1974 Aug. p. 35; Oct. p. 100. Wilson, Douglas P., 1960 Mar. p. 166. Wilson, E. Bright Jr., 1948 Sept. p. 21. Wilson, E. Justin Jr., 1953 May p. 33. Wilson, Edmund B., 1950 Nov. p. 30; 1961 Sept. p. 54; 1963 July p. 54; 1968 June p. 88. Wilson, Edward, 1962 Sept. p. 65. Wilson, Edward A., 1957 Dec. p. 47; 1964 Feb. p. 97; 1969 Aug. p. 101. Wilson, Edward O., 1956 May p. 64; 1962 Sept. p. 206; 1967 Oct. p. 62; 1968 May p. 116; 1971 Mar. p. 86; May p. 100; July p. 45; 1972 July p. 95; Sept. p. 36; 1973 Dec. p. 60; 1974 July p. 28; 1975 June p. 33; 1976 Mar. p. 101; 1977 Dec. p. 146, 154. Wilson, Frank N., 1961 Nov p. 134 Wilson, George, 1965 Mar. p 82. Wilson, H. R., 1954 Oct p. 57 Wilson, Harold, 1963 Aug. p. 48; 1975 Apr p. 26. Wilson, Henry V., 1959 May p. 132, 144, 1961 Sept. p. 146. Wilson, Herbert A., 1964 June p 30 Wilson, Irwin B., 1959 Nov p 81, 83, 84, 1961 Feb. p. 90. Wilson, J. A., 1969 May p. 23, 24 Wilson, J. F., 1977 Mar p. 160 Wilson, J. Tuzo, 1949 Aug. p 50, 1951 Dec p. 69; 1960 May p. 92; Oct. p. 110, 1961 Feb. p. 67; 1963 June p. 74; 1964 Aug. p. 28; 1967

Anna Paga Jana Car

Feb p 54, 1968 Dec p 60, 61, 65, 1970 Oct p 39, 41, 1972 May p 61, Nov p 62, 1973 July p 48 Wilson, Jack, 1970 July p 52 Wilson, James, 1963 Mar p 124, 1974 July p 57 Wilson, James L., 1963 Oct p 27 Wilson, James T., 1963 Mar p 128 Wilson, John C, 1972 July p 39, 42, 44, 46 Wilson, John T, 1978 June p 83 Wilson, Kenneth G, 1975 Oct p 45, 1976 Nov p 60 Wilson, Kinnier, 1956 Dec p 132, 1968 May p III Wilson, Mitchell, 1958 Apr p 64 Wilson, Olin C, 1963 Apr. p 67, 1965 Feb p 99, 1967 Aug p 35 Wilson, Ove, 1962 Sept p 228 Wilson, P W, 1953 Mar p 41, 1961 June p 139 Wilson, Perry B, 1965 Dec p 42 Wilson, R. N., 1956 July p. 63 Wilson, R. R., 1975 Feb p 40 Wilson, R. W., 1966 May p 54, Aug p 36, 1973 Mar p 60 Wilson, Richard, 1973 Nov p 40, 1975 June p 54 Wilson, Robert E., 1960 Apr p 88, 1961 May p 74, 1962 Sept p 100, 1964 May p 60 Wilson, Robert R., 1956 Aug. p 29-31, 34, 1960 July p 79, 1963 Jan p 44, 1970 Aug p 44, 1971 Sept p 75 Wilson, Robert W, 1965 July p 45, 1967 June p 28, 30, 32, 1969 Feb p 59, 1970 June p 33, 49, 1974 May p 112, 113, Aug. p 29, 1976 Mar p 63, 65, 1978 May p 64, 66 Wilson, Rodney, 1967 Feb p 49 Wilson, S S, 1973 May p 43 Wilson, Victor J. 1966 May p 102, 106, 1970 July p 62, 1972 June p 96 Wilson, W J, 1973 Mar p 56 Wilson Wilbor O, 1966 July p 56 Wilson, William J., 1968 Dec p 44, 1978 June p 94 Wilson, Woodrow, 1950 Nov p 11 Wilt, Fred H., 1969 Mar p 44 Wilischko, Wolfgang, 1974 Dec p 103 Wimmer, Eckard 1975 May p 25, 28 Wimsait, William A . 1957 Nov p 105, 112, 1958 July p 41 Winchell, Alexander, 1969 Feb p 17 Winchell P G, 1963 Aug p 80 Winchell Walter 1949 June p 54, 1954 June Winckler Hugo, 1955 July p 42 43 Winckler, John R 1957 Feb p 64, 1960 Feb p 57 June p 69 1963 May p 95, 96, 1965 Dec p 62 Wind C H 1972 June p 92 Windaus Adolf 1955 Jan p 53-57 59, 60, 1967 Nov p 27 1970 Dec p 80 88 Windhager Erich E. 1962 Aug p 100 Windhorst, Dorothy B 1967 Jan. p 115 Windley B F 1977 Mar p 102. Windram M D 1973 Sept p 72, 1975 Aug. p 32 Windsor Maurice W. 1968 Sept. p. 164, 1969 Fcb p 39 Winegard Saul 1970 Apr p 91, 92 Winegard William C 1967 Feb p 88 Winfree Arthur T 1974 Dec p 52 Wing Elizabeth S 1972 May p 85, 1977 Mar Wing, Robert F 1967 Nov p 61 Winge Opind 1950 Nov p 34 1951 Apr p 55 56 1956 Jin p 98 59, 101

Winger, Chilford L. 1977 June p. 45

Winick, Charles, 1965 Feb p 88 Winick, Myron, 1971 Oct p 20 Winkelstein, Jerry A, 1973 Nov p 65 Winkler, Clemens, 1966 Aug p 94, 1971 Dec Winkler, Pavel, 1957 Dec p 60 Winne, Harry A., 1953 June p 46 Winograd, Samuel, 1968 Mar p 50 Winogradsky, Sergei, 1960 Nov p 106 Winstein, Saul, 1976 Feb p 102 Winsten, Benjamin, 1949 Aug p 38 Winston, Roland, 1976 Oct. p 43 Winteler, Jost, 1972 Sept p 73, 75 Winter, Charles A, 1966 Nov p 136 Winter, Rudolph E K., 1968 July p 50 Winters, C E., 1955 Oct p 33 Wintrobe, M. M., 1968 May p. 105 Wiograd, Joseph, 1974 Nov p 52 Wipf, S L, 1973 Oct p 22, 23 Wipke, W Todd, 1970 June p 72 Wirgin, Jan, 1973 Feb p 53 Wirsen, Carl O, 1973 Apr p 45, 1977 June p 42 Wirtanen, Carl A., 1977 Nov p. 76, 84, 87-89, Wirth, Michael, 1966 Jan p 75 W172, H, 1957 Apr p 102 Wisby, W J, 1955 Aug p 76 Wisby, Warren, 1951 Sept p 56 Wisconsin Department of Natural Resources, 1969 June p 57 Wisconsin Industrial Commission, 1966 Dec p 66 Wise, David, 1974 June p 50 Wise, Donald U, 1967 Mar p 63 Wise, George N, 1973 Aug. p 90 Wishart, J W, 1971 June p 99 Wishcenus, G F, 1952 July p 71, 72, 74 Wislocki, George, 1954 Aug p 68 Wismer, K. L., 1972 Dec p 69, 70 Wisniewski, Henryk M. 1971 Oct. p. 77, 1973 Aug p 89 Wisselingh, C van, 1950 Nov p 35 Wissmann, Hermann von, 1969 Dec p 36 Wistar Institute of Anatomy and Biology, 1962 Mar p 119, 1963 Jan p 118, 1978 Feb p 118, 119 Wiswall, Richard H Jr., 1973 Jan p 20 Wit, Roland de, 1977 Dec p 144 Witcofski Richard L, 1963 Mar p 78 Withbroe, George L, 1973 Oct p 74 Wither, George 1964 Feb p 117 Withering, William, 1965 June p. 110-115, 1975 Dec p 54 Withey, Stephen B, 1962 May p 47, 1963 Feb p 72 Withington, Virginia, 1954 Apr p 44 Withner, Carl L, 1966 Jan p 75 Witkin, Evelyn 1967 Feb p 38 Witkin, Herman, 1963 Apr p 122 Witkin, Herman A., 1974 Jan p 81 Witkop, Bernhard, 1970 Aug. p 37 Witt, Georg, 1963 June p 50, 57 Witt, Gustav. 1961 Apr p 68 71, 1965 Apr p 114 Witt, H T., 1978 Mar p 112 Witt, Horst, 1965 July p 82 Witt, Horst T 1974 Dec p 82 Witte, Serger Y 1963 Sept p 58 Witteborn, Frank, 1969 Jan p 48 Wittemore, W. L., 1953 Sept. p. 80 Wittenberg, Jonathan, 1960 July p. 119 Witthauer, Kurt. 1963 Nos. p. 96, 100 Wittig, Jorg. 1965 Nov p 50, 1971 Apr p 86, Wittkopp, R. W., 1973 May p. 54 Winkower, Andrew B. 1970 Aug p 24

Wittkower, Rudolf, 1967 Dec p 97, 103 Wittmann, Hans, 1964 Oct p 51, 52, 54, 1966 Oct p 58 Wittner, M K., 1966 Dec p 65 Wittry, Warren L., 1964 Sept p 84 Wittner, S H, 1958 Feb p 44 Wlenck, G, 1977 Aug p 33 Wm. S Merrell Company, 1962 Aug p 30, 34, Sept p 98 Wober, W . 1977 Aug p 94 Wochner, D , 1961 Sept. p 167 Wodehouse, Roger P, 1968 Apr p 90 Woerkom, J. J. van. 1951 July p. 22, 1958 Oct. Woese, C, 1954 Dec p 65 Wogan, Gerald N, 1964 Nov p 60 Wohlenberg, Charles, 1973 Jan p 26 Wohler, Friedrich, 1950 Sept p 32, 62, 1954 Aug p 48, 1957 Feb p 110, 111, Sept p 81, Nov p 117, 1958 Aug p 27, 1963 Mar p 45, 1975 Apr p 47 Wohlgemut, Julius, 1963 Nov p 96, 100 Wohlhieter, J. A., 1967 Dec. p. 25 Wohlhuter, Richard C., 1976 June p. 110 Wohlstetter, Albert, 1969 Aug. p 27, 1971 Nov Wohlthausen, Edward 1966 June p 87 Wojcicki, Stanley G, 1963 Jan p 40 Wolbach, Burton, 1969 June p 50 Wolbarshi, Myron L, 1961 May p 138, 1964 Dec p 51, 1969 May p 113 Wolcott, Jesse P, 1955 Feb p 56 Woldenberg, Michael J., 1975 July p. 96 Wolf, A V, 1958 Nov p 130 Wolf, Abner, 1949 July p 17 Wolf, Enc. 1956 May p 74 Wolf, Enc R , 1972 Jan p 47 Wolf, Ernst, 1955 Aug p 60 Wolf, George, 1970 Jan p 37 Wolf, James, 1975 Mar p 99 Wolf, Katherine, 1972 July p 76, 82 Wolf, Max, 1965 Apr p 111 Wolf, Maxmilian, 1977 June p 68 Wolf, Montrose M., 1967 Mar p 81 Wolf, Rudolf, 1977 May p 80 Wolf, Stewart, 1974 Nov p 20 Wolf, Stewart G, 1958 Oct p 100 Wolfe, A E., 1966 Mar p 42 Wolfe, A. M., 1970 Oct p. 54, 1976 Oct p. 65 Wolfe, David, 1965 July p 53, 55 Wolfe, Harold R., 1962 Nov p 55 Wolfe, Hugh C, 1954 June p 30 Wolfe, James P, 1976 June p 37 Wolfe, James W, 1975 Jan p 66 Wolfe, John H, 1977 Dec p 86 Wolfe, R. A., 1968 Feb p 44 Wolfe, Ralph S, 1978 Jan. p 93 Wolfe, Thomas, 1958 May p 77, 1967 Jan p 98 Wolfenstein, Martha, 1951 Nov p 34 Wolff, Dieter, 1954 Dec p 84 Walff, Georg, 1972 July p 82 Wolff, H G, 1955 May p 74 Wolff, J R., 1978 Feb p 98 Wolff, Jan. 1971 June p 97 Wolff, Julius, 1965 Oct p 18 Wolff, Kasper F, 1949 Feb p 52, 1957 Nov p 31 Wolff, N E, 1963 July p 37 Wolff, Sheldon, 1960 Apr p 148 Wolfgang, Richard, 1968 Oct p 44, 1975 Jan p 75 Wolfle, Dael, 1951 Sept. p 104, 73, 1954 Feb p 42, 1960 Sept p 98, 1970 Feb p 13 Wohnsky, Emanuel, 1956 July p 50 Wolken J J., 1956 Jan p 80, 84 Woll, Robert J., 1972 Dec. p. 20

Wollan, E. O., 1949 July p. 41; 1951 Oct. p. 49. Wollaston, William H., 1953 Oct. p. 91, 92; 1958 June p. 76. Wollin, Goesta, 1963 Mar. p. 76. Wollman, Elie L., 1965 Dec. p. 38; 1967 Feb. p. 38; July p. 108; Dec. p. 22; 1969 Nov. p. 122. Wollman, William, 1963 Sept. p. 96. Wollman, Zach, 1967 July p. 108. Wolman, Abel, 1956 July p. 48; 1965 Sept. p. 169, 68. Wolpe, Joseph, 1967 Mar. p. 82. Wolpert, Edward A., 1958 Sept. p. 90; 1960 Nov. p. 87, 88. Wolpert, Lewis, 1973 Feb. p. 30; 1974 Dec. p. 51; 1977 July p. 67. Wolsey, Thomas, Cardinal, 1958 June p. 74. Wolstenholme, David R., 1974 Jan. p. 60. Wolstenholme, G. E. W., 1958 Jan. p. 46. Woltjer, L. J., 1973 Feb. p. 100. Wolverton, Charles A., 1948 June p. 9. Wong, James, 1974 July p. 70. Wong, Lem, 1961 July p. 68. Wong, Winston A., 1975 Apr. p. 121. Wood, A., 1965 Oct. p. 36. Wood, Alexander, 1971 Jan. p. 96-100, 102. Wood, B. J., 1978 Apr. p. 128. Wood, E. H., 1975 Oct. p. 66. Wood, Fae D., 1963 Nov. p. 104. Wood, Harland G., 1949 Feb. p. 33. Wood, John A., 1970 Aug. p. 14; 1972 Apr. p. 52; 1975 Jan. p. 24; Sept. p. 144. Wood, John M., 1970 Sept. p. 86. Wood, Lowell, 1973 Nov. p. 48; 1977 Feb. p. 92. Wood, Marshall, 1954 Aug. p. 21. Wood, Marshall K., 1963 Sept. p. 151. Wood, Mary, 1965 Dec. p. 40. Wood, Robert C., 1965 Sept. p. 136. Wood, Robert W., 1952 June p. 50; 1954 May p. 62; 1957 June p. 104; 1964 Jan. p. 108; Feb. p. 100; 1973 June p. 44, 45. Wood, Sumner Jr., 1976 May p. 60. Wood, Sutton T., 1970 Oct. p. 113. Wood, Timothy, 1978 Jan. p. 40. Wood, W. Barry Jr., 1956 Jan. p. 52; 1964 Feb. p. 58; Mar. p. 39; 1973 Nov. p. 65. Wood, Walter A., 1952 Aug. p. 57. Wood, William B., 1967 May p. 58; July p. 64. Woodbury, Eric J., 1963 July p. 42; 1964 Apr. p. 48, 49; 1968 Sept. p. 132. Woodcock, Alfred H., 1952 Apr. p. 29; 1953 Nov. p. 33; 1957 Oct. p. 42, 45; 1974 May p. 75. Woodcock, L. F., 1970 Nov. p. 26. Wooddell, Charles E., 1974 Aug. p. 64. Wooderson, Sydney, 1952 Aug. p. 52; 1976 June Woodhall, Branes, 1959 Nov. p. 70. Woodhouse, James, 1954 Oct. p. 73. Woodland, Hugh R., 1968 Dec. p. 31; 1976 Aug. p. 63, 66, 68, 71. Woodrow, Herbert, 1968 June p. 68. Woodrow, Joseph C., 1968 Nov. p. 50. Woodruff, A. W., 1966 Sept. p. 104. Woodruff, Boyd, 1949 Aug. p. 34. Woodruff, J. C., 1952 Apr. p. 56. Woodruff, L. L., 1948 June p. 41; 1949 Apr. p. 53. Woodruff, Lois A., 1955 Aug. p. 34, 39. Woodruff, M. F. A., 1968 Mar. p. 50. Woods, D. D., 1951 Apr. p. 60, 61. Woods, E. F., 1955 Apr. p. 54. Woods, E. J., 1966 Nov. p. 110. Woods, H. J., 1969 Aug. p. 87-89. Woods Hole Institute for Muscle Research, 1965 Dec. p. 22. Woods Hole Marine Biological Laboratory,

1978 Jan. p. 36, 40. Woods Hole Oceanographic Institution, 1948 July p. 30; 1949 Oct. p. 18; 1953 Nov. p. 33, 34; 1957 Aug. p. 33, 35, 39; Oct. p. 44, 46; Dec. p. 120; 1958 July p. 88; 1960 Feb. p. 126; Oct. p. 121; 1961 Sept. p. 142; 1962 May p. 123; June p. 128, 134, 137; July p. 62; Aug. p. 48; 1964 Apr. p. 62; May p. 64; Sept. p. 151; 1967 Jan. p. 60; 1970 Jan. p. 115; Apr. p. 32, 34; May p. 84; July p. 77; Sept. p. 70; Dec. p. 16; 1971 May p. 99, 108; Oct. p. 79; 1973 Feb. p. 36; Apr. p. 45; July p. 88; 1975 Feb. p. 70; June p. 90, 93, 96; Aug. p. 80, 83; Nov. p. 97; 1977 Apr. p. 86; June p. 44, 45, 48, 50-52; Nov. p. 138, 74; 1978 Feb. p. 57. Woods, John D., 1973 Feb. p. 65, 74. Woods, Mark, 1950 Nov. p. 36, 38. Woods, Philip S., 1957 Sept. p. 189; 1958 June p. 39; 1960 Jan. p. 129. Woodson, Riley D., 1971 May p. 70. Woodward, Frederick, 1959 Jan. p. 130. Woodward, Herbert P., 1963 Nov. p. 70. Woodward, J. J., 1961 Sept. p. 52. Woodward, John, 1976 Jan. p. 115. Woodward, Kenneth, 1965 Nov. p. 45. Woodward, Robert B., 1951 June p. 30; July p. 31; 1954 Dec. p. 56; 1955 Jan. p. 60; 1956 'July p. 50; 1959 July p. 114; 1965 Dec. p. 40; 1967 Aug. p. 67; Nov. p. 28; 1972 Aug. p. 40; 1976 Feb. p. 102. Woodwell, George M., 1968 Mar. p. 53; 1969 June p. 57; 1970 Apr. p. 73; Sept. p. 64; 1978 Jan. p. 34, 39. Woodworth, Robert S., 1968 Nov. p. 68; 1972 July p. 86. Woolf, Neville J., 1966 May p. 54; 1967 June p. 33. Woolf, Virginia, 1961 Feb. p. 49; 1964 Nov. p. 116. Woolf, William L., 1963 Nov. p. 89, 91. Woollard, George P., 1962 Sept. p. 136, 184. Woolley, D. W., 1957 Dec. p. 55. Woolley, J. T., 1959 May p. 78. Woolley, John, 1977 June p. 62. Woolley, Leonard, Sir, 1965 Sept. p. 56. Woolley, Richard, Sir, 1964 Jan. p. 35, 40. Woollum, Clarence A., 1967 Aug. p. 19. Woolrich, John S., 1961 May p. 115. Woolsey, Clinton N., 1948 Oct. p. 27, 31, 34; 1960 Sept. p. 73. Woolworth, Joseph, 1974 Sept. p. 41. Woolworth, Naomi, 1974 Sept. p. 41. Woolworth, Ritchard, 1974 Sept. p. 41. Wooster, Warren S., 1969 Sept. p. 173, 56. Worcester, David, 1977 Aug. p. 94. Worcester Foundation for Experimental Biology, 1953 Aug. p. 48; 1963 Mar. p. 102; 1964 Nov. p. 117, 118; 1966 Aug. p. 80. Word, Jack, 1974 Aug. p. 24. Worden, Alfred M., 1971 Sept. p. 74; 1975 Sept. p. 93. Worden, Frederic G., 1959 Aug. p. 95, 96. Worden, Peter, 1975 Feb. p. 43. Wordsworth, William, 1950 Jan. p. 46; 1953 Feb. p. 69; June p. 25; 1955 Dec. p. 74, 80. Work, T. S., 1957 Oct. p. 128. Workman, R. D., 1966 Mar. p. 28. Workshop on Alternative Energy Strategies, 1978 Mar. p. 42. World Academy of Art and Science, 1967 Mar. p. 90. World Bank, 1963 Sept. p. 226; 1974 Sept. p. 170, 180; 1976 Sept. p. 38, 190. World Book Encyclopedia, 1961 Oct. p. 68. World Disarmament Conference, 1977 Nov. World Federation for Mental Health, 1953 Oct.

p. 60. World Federation of Scientific Workers, 1948 June p. 24. World Food Council, 1970 Aug. p. 54; 1976 Sept. p. 204. World Health Organization, 1948 May p. 33; June p. 24; July p. 30; Aug. p. 31; Nov. p. 25; 1949 Feb. p. 29; Mar. p. 27; Apr. p. 11, 14, 13, 26; June p. 28; 1950 Mar. p. 16; Aug. p. 11; 1951 Apr. p. 32; 1952 June p. 25; 1953 Feb. p. 25; Apr. p. 30; 1954 Dec. p. 47, 49, 50; 1955 Mar. p. 53; 1956 July p. 48; 1957 Jan. p. 118; Aug. p. 104; Sept. p. 112; 1958 June p. 46; 1962 May p. 86, 87, 90, 93, 96, 98; 1963 Apr. p. 57; Sept. p. 79; 1964 Jan. p. 83; Mar. p. 46; Aug. p. 20; 1965 Sept. p. 93; 1968 Apr. p. 70, 69; 1969 Aug. p. 50; 1970 May p. 16, 17, 20; July p. 112; 1971 May p. 19, 20; June p. 95; Aug. p. 16, 18; 1972 Mar. p. 15, 17-19, 21; Aug. p. 46; 1973 Sept. p. 25-27; Oct. p. 27, 33; 1974 Nov. p. 70; 1975 Feb. p. 18; Aug. p. 17, 18; Oct. p. 53; 1976 Jan. p. 62; Sept. p. 41, 55, 60; Oct. p. 25, 26, 28-31, 28, 29; 1977 Jan. p. 25; Mar. p. 61; July p. 47; Dec. p. 94. World Linkage Center, 1971 Apr. p. 110. World Meteorological Organization, 1963 Apr. p. 57; Oct. p. 58; 1969 Jan. p. 55, 67. World Population Conference, 1977 Jan. p. 27. Worldwide Network of Standard Seismographs, 1977 Dec. p. 73. Worlock, John M., 1964 Apr. p. 46. Worman, Walter, 1973 July p. 30, 31, 32. Wormington, H. Marie, 1960 Sept. p. 102. Worms, Michael J., 1970 June p. 125, 127. Wortham, James T., 1951 Apr. p. 35. Wortham, Joseph S., 1963 Nov. p. 115. Worthington, C. R., 1976 May p. 38. Worthington, E. B., 1948 Oct. p. 25. Worthington, L. V., 1955 Jan. p. 34; Sept. p. 102. Wortis, Henry H., 1976 May p. 33. Wortis, Rochelle, 1964 Nov. p. 53. Wortman, Sterling, 1975 June p. 13; 1976 Sept. p. 31. Worzel, J. Lamar, 1955 Sept. p. 174; 1956 Dec. p. 88; 1959 May p. 74; 1970 Dec. p. 20. Wosilait, Walter D., 1972 Aug. p. 97, Wotherspoon, Neil, 1973 Oct. p. 100. Wotton, Henry, Sir, 1974 Oct. p. 82. Woytinsky, Emma S., 1960 Sept. p. 197. Woytinsky, Wladimir S., 1960 Sept. p. 197. Wozencraft, John M., 1962 Feb. p. 108. W.R. Grace and Company, 1957 Mar. p. 68; 1965 Aug. p. 71; 1976 Dec. p. 36. Wren, Christopher, 1954 Dec. p. 94, 97, 98; 1967 Aug p. 98; 1970 Oct. p. 114; 1972 May p. 75; 1976 Jan. p. 63. Wrenn, C. Gilbert, 1950 July p. 14. Wrenn, Joan, 1971 Oct. p. 80. Wriedt, Christian, 1952 July p. 60. Wright Aeronautical Company, 1953 Nov. p. 68. Wright, Almroth, 1951 Feb. p. 48. Wright, Andrew, 1969 Nov. p. 121. Wright, Barbara, 1959 Dec. p. 154; 1969 June Wright, Brian, 1973 July p. 55. Wright, Charles, 1972 May p. 90. Wright, D. H., 1973 Oct. p. 30. Wright, Edward L., 1977 Oct. p. 55; 1978 Apr. p. 115-118; June p. 102. Wright, Ernest V., 1972 Sept. p. 34, 36. Wright, Frank L., 1961 Nov. p. 154; 1963 Nov. p. 92; 1965 Sept. p. 74. Wright, Fred E., 1951 June p. 32. Wright, Herbert E., 1970 Mar. p. 53. Wright, Irving S., 1961 Apr. p. 95. Wright, James R., 1971 Mar. p. 17.

Wright, Kenneth E., 1962 Aug. p. 36. Wright, Lauren A., 1969 Aug. p. 50. Wright, Lloyd, 1963 Nov. p. 92. Wright, M. Ruth, 1961 July p. 102. Wright, Orville, 1949 Dec. p. 35, 56; 1953 Nov. p. 65; 1954 Apr. p. 64; 1957 July p. 118; 1967 June p. 24; 1973 Mar. p. 88; 1977 Aug. p. 99. Wright, P. G., 1971 Jan. p. 71. Wright, R. H., 1975 July p. 104. Wright, R. V. S., 1966 Mar. p. 90, 91. Wright, Robert, 1970 Sept. p. 72. Wright, Sewall, 1950 Jan. p. 33, 38; Nov. p. 38; 1951 Nov. p. 25; 1952 July p. 60; 1964 Sept. p. 149; 1969 Aug. p. 32; 1972 June p. 28. Wright, T. P., 1953 May p. 54. Wright, Thomas, 1950 Feb. p. 33; 1954 July p. 30. Wright, Wilbur, 1949 Dec. p. 35, 56; 1953 Nov. p. 65; 1954 Apr. p. 64; 1957 July p. 118; 1967 June p. 24; 1973 Mar. p. 88. Wright-Fleming Institute, 1964 Dec. p. 114. Wrigley, E. A., 1970 Jan. p. 108; 1974 Sept. p. 139. Wrigley, Walter, 1957 June p. 71. Wriston, Henry M., 1956 May p. 55. Wriston, John C. Jr., 1968 Aug. p. 37. Wrixon, G. T., 1974 May p. 60. Wróblewski, Felix, 1957 Feb. p. 58; 1961 Aug. p. 99, 105. Wronski, Christopher R., 1977 May p. 42. Wroughton, R. C., 1948 June p. 18. Wu, Chien-Shiung, 1957 Mar. p. 62; 1958 Sept. p. 80, 81; 1959 Mar. p. 72, 80; 1963 Apr. p. 82; 1965 Dec. p. 28-32, 35; 1966 July p. 74. Wu, Francis T., 1977 Apr. p. 36. Wu, L. Y. Frank, 1974 Nov. p. 72. Wu, Madeleine C., 1976 Dec. p. 112. Wu, Ray J., 1977 Jan. p. 47. Wu, T. T., 1977 Jan. p. 52. Wuerker, Ralph F., 1968 Feb. p. 44, 45; 1976 Oct. p. 86. Wuest, Georg, 1955 Jan. p. 31, 32, 34, Wulff, Daniel L., 1962 Dec. p. 138. Wulff, Hans E., 1967 Sept. p. 70; 1973 Apr. Wulff, Theodor, 1949 Mar. p. 29, 30. Wunderlich, C. A., 1957 June p. 62, 63, 64. Wunderlich, Carl, 1967 Feb. p. 95. Wundt, Wilhelm, 1950 Sept. p. 79, 80; 1968 Nov. p. 66, 68, 69; 1971 Aug. p. 82; 1975 Feb. p. 97. Wurm, Ole, 1951 Mar. p. 42. Wurster, Catherine B., 1965 Sept. p. 196. Wurster, Charles F. Jr., 1967 Mar. p. 27, 31 Wurtman, Richard J., 1965 July p. 55; 1973 July p. 51; 1974 June p. 62; 1975 July p. 69. Wurtz, Robert H., 1972 Dec. p. 77, 80, 81. Wust, Georg, 1958 July p. 88; 1962 Sept. p. 118. Wyant, D. G., 1954 Oct. p. 36. Wyatt, G. R., 1954 Oct. p. 55; 1955 July p. 77. Wyatt, Gerard R., 1970 Jan. p. 91. Wyatt, John, 1972 Dec. p. 51. Wychoff, R. D., 1961 June p. 156. Wyckoff, H. W., 1961 Dec. p. 109. Wyckoff, R. W. G., 1949 June p. 24; 1950 Sept. p. 63, 76; 1951 May p. 45, 50; June p. 46; 1953 June p. 41; 1954 Dec. p. 63; 1969 Aug. Wycliffe, John, 1964 Feb. p. 117, 121, Wyeth Laboratories, 1976 Oct. p. 30. Wyhe, C. C., 1948 May p. 41; 1949 July p. 24. Wylie, L. R., 1959 Apr. p. 93, Wyman Gordon Company, 1965 May p. 46. Wyman, Jellries, 1953 Nov. p. 33; 1965 Apr. p. 42, 45; 1969 May p. 40; 1973 Oct. p. 61. Wynder, Ernest L., 1950 July p. 29; 1962 July p. 45, 51; 1977 Feb. p. 84.

Wynne-Edwards, V. C., 1968 May p. 126. Wynn-Williams, C. G., 1978 Apr. p. 116. Wynn-Williams, G., 1973 Apr. p. 37. Wyrtki, Klaus, 1962 Sept. p. 128.

X

Xantippe, 1957 Mar. p. 105. Xenophon, 1955 Mar. p. 94; 1966 Dec. p. 99; 1973 Oct. p. 37, 39. Xerox Corporation, 1972 Mar. p. 47, 50, 52, 54, 55; 1977 May p. 36, 44; Sept. p. 160, 236, 231. Xerxes, 1954 Nov. p. 62; 1961 Mar. p. 111, 115, 117, 118, 120.

Y

Yagoda, Herman, 1951 Dec. p. 36; 1953 Sept.

p. 65; 1954 Apr. p. 38; 1959 Sept. p. 84.

Yabe, Yoshiro, 1962 May p. 80.

Yahara, Ichiro, 1976 May p. 38.

Yahraes, Herbert, 1948 Oct. p. 25; 1950 Feb. p. 26. Yakowitz, Harvey, 1973 July p. 65. Yale Clinic of Child Development, 1950 Feb. Yale University, 1952 June p. 21; 1953 Apr. p. 44; Dec. p. 90; 1955 Feb. p. 70, 77; 1957 Oct. p. 106; 1958 Jan. p. 78; Feb. p. 76; May p. 73; June p. 34; July p. 49; Nov. p. 38; Dec. p. 124; 1962 Mar. p. 119, 65; 1963 Feb. p. 128, 90; May p. 130; June p. 45; Aug. p. 38, 44; Oct. p. 54; Nov. p. 102; Dec. p. 60; 1964 Feb. p. 121; June p. 65; July p. 39, 42, 54, 57, 58, 61, 98; 1965 Mar. p. 93, 95; July p. 93; Sept. p. 61; 1966 July p. 74; 1970 Jan. p. 79; 1974 June p. 50. Yale University School of Medicine, 1951 Dec. p. 47, 53; 1958 Oct. p. 96; 1962 Aug. p. 72; 1963 Mar. p. 122; 1964 Jan. p. 42; Mar. p. 39, 46; Dec. p. 70; 1965 July p. 54, 53; 1966 Sept. p. 231, 232; 1977 Aug. p. 109, 111. Yale-New Haven Hospital, 1971 Mar. p. 34, 42. Yalow, Rosalyn S., 1967 July p. 105; 1970 Oct. p. 44; 1977 Dec. p. 82. Yamada, Eichi, 1961 Feb. p. 116. Yamada, Kenneth, 1971 Oct. p. 79. Yamagiwa, K., 1973 Oct. p. 26. Yamamoto, Issei, 1959 Apr. p. 93. Yamamoto, Kohtaro, 1969 Apr. p. 35. Yamamoto, Robert T., 1963 May p. 102; 1964 Aug. p. 27; 1965 July p. 48. Yamasaki, Minoru, 1974 Feb. p. 105. Yamashita, Saroru, 1961 May p. 144. Yamashita, Satoshi, 1968 Feb. p. 39. Yamashita, Takashi, 1969 Dec. p. 64. Yamdagni, N. K., 1967 Apr. p. 114. Yanagimachi, Ryuzo, 1977 Nov. p. 134. Yanagita, Tomoji, 1964 Mar. p. 47, 52. Yanamoto, Masahide, 1965 Aug. p. 73. Yancey, Patrick H., 1950 Dec. p. 26. Yang, Chen Ning, 1950 Mar. p. 27; 1952 Jan. p. 27; 1957 Mar. p. 62; Apr. p. 50; Dec. p. 59; 1958 Feb. p. 40; Sept. p. 77, 80-82; 1959 Mar. p. 72, 78, 84; 1961 July p. 50; 1963 Mar. p. 64, 67; Oct. p. 36, 40; 1965 Dec. p. 28, 32; 1966 Feb. p. 43; 1967 Jan. p. 100; Nov. p. 25, 28, 29; 1969 Oct. p. 90; 1974 July p. 55; 1976 Nov. p. 55; 1978 Feb. p. 136. Yankofsky, Saul A., 1964 May p. 54. Yanofsky, Charles, 1966 Apr. p. 105; July p. 50; Oct. p. 58; 1976 Dec. p. 113. Yanowsky, Vassily, 1969 Dec. p. 134.

Yao, Andrew C., 1977 Apr. p. 69. Yao, F. Frances, 1977 Apr. p. 69. Yarbus, Alfred L., 1971 June p. 37, 38. Yarger, Harold, 1966 Aug. p. 42. Yarnell, John L., 1960 Nov. p. 138, 150. Yasuda, I., 1965 Oct. p. 18, 21. Yates, Frances, 1972 Sept. p. 87. Yawata Iron and Steel Company, 1963 Dec. p. 86. Yazargil, M. Gazi, 1978 Apr. p. 65. Yĉas, Martinas, 1955 Oct. p. 76. Yeager, Charles, 1953 Oct. p. 40. Yeager, Charles E., 1964 June p. 25. Yeagley, H. L., 1952 May p. 76, 78. Yeh, Noel K., 1970 Feb. p. 73. Yeh, Yen, 1968 Sept. p. 124. Yehuda, B. Haas, 1977 Feb. p. 95. Yellin, Edward L., 1961 Aug. p. 61. Yemelyanov, Vasily S., 1966 Aug. p. 40. Yemen, Michael R., 1977 July p. 105. Yen, Douglas, 1972 Apr. p. 36, 37. . Yennie, D. R., 1956 July p. 63. Yerganian, George, 1969 Apr. p. 33. Yerkes Laboratories of Primate Biology, 1958 Sept. p. 142; 1960 Sept. p. 83; 1962 May p. 133, 134; Nov. p. 138; 1964 Jan. p. 42. Yerkes, Robert M., 1955 Feb. p. 69, 70, 73-75; 1957 June p. 144; 1960 Apr. p. 67. Yerofeyev, M., 1965 Oct. p. 26. Yersin, Alexandre, 1968 Apr. p. 71. Yeung, Edward S., 1977 Feb. p. 95. Yeung, Sze, 1973 Jan. p. 61. Yilmaz, Hüseyin, 1976 Feb. p. 52. Yin, T. P., 1968 May p. 53. Ying-Hsing, Sung, 1963 July p. 90. Yngve, Victor H., 1956 Jan. p. 30, 32, 33; 1966 Sept. p. 257; 1972 Sept. p. 34. Yntema, G. B., 1962 June p. 62; 1967 Mar. p. 117. Yntema, Theodore, 1953 Mar. p. 44. Yocum, Charles, 1969 Dec. p. 69. Yodh, Gaurang B., 1971 May p. 26; 1973 Nov. p. 43. Yoeli, Meir, 1960 Sept. p. 106. Yoffa, Ellen, 1977 May p. 41. Yoffe, Abram, 1949 Nov. p. 27 Yogi, Maharishi, 1972 Feb. p. 86. Yogo, Yoshiaki, 1975 May p. 25. Yoke, Ho Peng, 1976 June p. 103, 106. Yokoo, Akira, 1967 Aug. p. 62. Yokosuka City Museum, 1962 Dec. p. 77. Yomo, Haraguro, 1968 July p. 79. Yonas, Gerold, 1972 Apr. p. 29. York, Donald G., 1974 May p. 113, 114. York, Herbert, 1954 Mar. p. 44; 1956 Nov. p. 60; 1957 Dec. p. 84. York, Herbert F., 1969 Aug. p. 18; Sept. p. 61; 1972 Jan. p. 22; 1973 Dec. p. 55. York Museum, 1960 Nov. p. 160. York University, 1973 Oct. p. 73. Yoshikawa, Akira, 1977 May p. 47. Yoshikawa, Shoichi, 1967 July p. 88. Yoshimori, A., 1967 Sept. p. 230. Yoshimori, Robert N., 1975 July p. 28. Yoshimura, Hisato, 1962 Aug. p. 100. Yost, Don M., 1953 May p. 32; 1964 May p. 70. Young, Andrew, 1970 May p. 27; 1975 Sept. Young, Archibald, 1971 Jan. p. 97. Young, C. M., 1964 Aug. p. 74. Young, Charles, 1969 Oct. p. 50. Young, Charles W., 1971 July p. 30.

Young, Cung Chien, 1949 Mar. p. 42.

Young, Donald R., 1968 Oct. p. 58.

Young, E. D., 1967 Aug. p. 29. Young, Edward S., 1977 Feb. p.

Young, Frank, 1969 Jan. p. 40.

Young, Frank G, 1950 Oct p 20 Young, Frank N, 1957 Jan p 68 Young, Howard, 1955 Dec p 94 Young, J Z, 1951 Apr p 66, 68, 1958 Dec p 84, 1965 Mar p 42, 43, 49, 50, 1966 Mar p 78, 1968 Sept p 134 Young, James, 1949 Dec p 35 Young, John, 1972 June p 51 Young, John A, 1956 Oct p 68 Young, John W, 1972 Oct p 81 Young, Louise, 1975 Sept p 84 Young, M R, 1967 Nov p 62, 69 Young, Milton R, 1951 Oct p 33 Young, Peter J, 1978 Apr p 80 Young, Richard W, 1970 Oct p 81 Young, Robert A, 1966 Mar p 102 Young, Robert C, 1963 July p 120 Young, Rodney S, 1959 July p 102, 103 Young, Thomas, 1953 Nov p 93, 94, 1958 Mar p 98, Apr p 56, Sept p 60, 63, 1959 May p 84, 1961 June p 59, Nov p 118, 125, 1963 Dec p 68, 1964 May p 60, Nov p 108, 57, Dec p 48, 54, 55, 56, 1967 Dec p 48, 1968 Sept p 121, 122, 50, 55, 58, 1971 July p 94, 1972 May p 30, 1973 June p 43, 1975 Mar p 64, 68, 1977 Apr p 120-122, 126 Young, Vernon R, 1971 Oct p 14, 1976 Sept p 51 Young, W J, 1953 Apr p 85, 86 Young, Whitney M Jr, 1966 Mar p 55 Young, William C, 1966 Apr p 86 Youngblood, William W, 1976 Mar p 39 Younger, John G, 1976 Aug. p 45 Yount, David E, 1971 July p 94 Yourno, Joseph, 1971 Jan p 46 Youtz, Richard P, 1965 Mar p 57 Ypsilantis, Thomas, 1955 Dec p 47, 1956 June p 38 Yron, Ilana, 1976 May p 33 Yuan, Ching, 1966 May p 53 Yuan, Chou Pei, 1957 Sept p 107 Yuan, Luke, 1955 May p 51 Yuan, Robert T Y, 1970 Jan p 90 Yu-Cheng, Liu, 1974 Apr p 22 Yudkın, John, 1972 Nov p 54 Yukawa, Hideki, 1948 June p 34, 1949 June p 29, Dec p 11, 14, 1950 Mar p 27, Sept p 31, 1951 Oct p 52, 1952 Jan p 25, 1953 Sept p 60, 63, 1954 May p 46, 1956 May p 42, 1957 Jan p 85, July p 77-79, 83, 84, Sept p 107, 1958 Dec p 53, 1959 Jan p 76, 1960 Mar p 114, 1961 July p 46, 1963 Mar p 63, 65, 1967 Nov p 27, 1976 Jan p 47, May p 94, 95 Yunge, G C A, 1955 Jan p 67 Yushmanov, E E, 1966 Dec p 31 Yutang, Lin, 1963 June p 130 Yutoku, M, 1976 Mar p 116 Yvan, Luke C, 1963 Jan p 41

Z

Zabawski, Ronald, 1974 June p 24
Zabriskie, John, 1965 Dec p 69
Zacharias, E, 1968 June p 86
Zacharias, Jerrold R., 1957 Feb p 57, 78, Apr p 50, 1958 Apr p 64, 1965 May p 67
Zacharias, Leona, 1975 July p 77
Zacharias, Leonz, 1955 Dec p 40, 43
Zachariasen, William H, 1961 Jan. p 92-94
Zachau, Hans, 1966 Oct p 60
Zackay, Victor F, 1963 Sept p 130, 1965 Feb p 28, 1968 Nov p 36
Zafiratos, Chris D, 1964 Mar p 83, 1972 Nov p 105

Zagreb Archaeological Museum, 1962 Feb p 90 Zahl, Harold, 1957 Jan p 48 Zahl, Paul A , 1958 Aug p 98 Zahn, Helmut, 1968 Mar p 69, 72 Zahringer, Josef, 1960 Nov p 173, 1961 June p 86, Nov p 63 Zaidins, Clyde, 1972 Oct p 104 Zaikin, A. N., 1974 June p. 82, 85 Zajac, E E, 1966 Sept p 92 Zakharov, S A, 1977 Apr p 35 Zakhavaeva, N N, 1970 Nov p 53, 69 Zaleski, Eugène, 1969 June p 19 Zalut, Clyde, 1966 Apr p 50 Zambonin, A., 1970 Mar p 95 Zamecnik, Paul C, 1958 Dec p 58, 1959 Dec p 59, 1961 Sept p 79, 1963 Mar p 83, 1969 Oct p 28 Zamenhof, Stephen, 1957 Feb p 67, Oct p 60, 1970 Oct p 28 Zamır, Ada, 1965 May p 48, 1966 Feb p 34, Zammatti, Carlo, 1971 Feb p 101 Zanartu, Juan, 1951 Apr p 35 Zander, Rodolphe, 1965 Jan p 37 Zanella, P., 1966 Nov p 64 Zanello, Dino, 1966 Aug p 42 Zangemeister, K, 1973 Oct p 39 Zanker, V, 1969 Feb p 36 Zapata, Emiliano, 1966 Oct p 25 Zapol, Warren M, 1975 Apr p 57 Zapp, Alfred D, 1963 Sept p 118, 120 Zare, Richard N, 1977 Feb p 86 Zarem, A M, 1949 June p 49 Zaretsky, Malcolm, 1974 Aug p 42 Zarlıno, 1967 Dec p 98 Zarlino, Gioseffe, 1967 Dec p 97 Zatopek, Emil, 1952 Aug p 52, 54, 1976 June p 114 Zatsepin, Georgi, 1951 May p 36 Zaumeyer, W J, 1955 June p 83, 84 Zavoisky, E K, 1958 Aug p 64, 66 Zebroski, Edward, 1976 June p 49 Zechmeister, Laszlo T, 1949 May p 19, 1951 Mar p 38, 1967 June p 70, 74 Zeder, Fred M, 1977 Aug p 98, 99, 103 Zeegers, G H L, 1956 Apr p 71 Zeeman, E. C., 1976 Mar p 60D Zeeman, Pieter, 1950 June p 22, 23, 24, 1956 Nov p 94, 104, 1960 Feb p 53, 55, 1965 Apr p 72, May p 60, 61, 1966 Nov p 54, 1967 Nov p 26, 1968 Jan p 101, 73 Zeevi, Yehoshua Y, 1972 Jan p 66, 67, Sept p 43, 1973 Jan p 70 Zehnder, Ludwig A, 1962 May p 108, 109 Zei, Gianna, 1969 Aug p 30 Zeidenberg, Phillip, 1977 Mar p 64 Zeidner, Joseph, 1968 Aug p 93 Zeiger, Herbert J., 1957 Feb p 78, 1961 June p 55, 1963 July p 38, 1964 Dec p 60, 1965 May p 72 Zeilik, Michael, 1978 Apr p 110, June p 102 Zeiss, Carl, 1976 Aug p 77 Zeist, Willem van, 1970 Mar p 53 Zelazo, Philip, 1972 Mar p 81 Zel'dovich, Ia. B, 1959 Feb p 62, 1962 Aug p 98, 1968 Dec p 98, 1974 Dec p 36 Zeleny, John, 1966 Aug p 95 Zelickson, Alvin S., 1967 Jan p 115 Zelikoff, Murray, 1956 May p 56 Zeller, H D, 1954 Oct p 36, 38 Zellner, Benjamin H., 1973 Aug. p. 43, 1975 Jan p 28, 1977 Feb p 35 Zeman, Frederic D, 1961 Mar p 84 Zener, Clarence M. 1969 Mar p 29 Zengerle, L., 1969 Oct. p. 22 Zenith Radio Corporation, 1953 June p. 46

Zenkevitch, N L, 1960 Dec p 65 Zenneck, Jonathan, 1974 Mar p 99, 100 Zeno, 1949 Apr p 44, 1952 Nov p 76, 1954 Nov p 104, 1956 Mar p 112, 114, 1962 Apr p 85, 89, 94, 1967 July p 50, Dec p 105, 116, 1971 Mar p 50, Aug p 93, 1972 June p 78, 1973 Apr p 44 Zer, Pharaoh, 1957 July p 107 Zermelo, Ernst, 1962 Apr p 94, 1967 Dec p 106, 114, 116 Zernike, Frits, 1953 Dec p 48, 1967 Nov p 28 Zeta, 1948 June p 57 Zetterberg, Anders, 1974 Jan p 55 Zeuner, Frederick, 1948 July p 19 Zeuthen, Enk, 1953 Feb p 50, 1961 Dec p 65, 1972 June p 73, 1974 Jan p 59 Zeuxis, 1966 Dec p 99 Zeve, Victor H, 1968 Apr p 111 Zeya, Hassan, 1967 Nov p 67 Zhabotinsky, A. M., 1974 June p. 82, 85 Zhelegnyi, B V, 1970 Nov p 62 Zhevalin, S A, 1975 June p 73 Zhinkin, L. N., 1958 Sept p 89 Zhivlyuk, Yu N, 1961 Oct p 86 Zhou, She, 1973 Feb p 56 Zhuzgov, L N, 1971 Aug p 66 Zichichi, A., 1961 Mar p 80, July p 54 Ziegler, C A, 1959 Aug p 68 Ziegler, H P, 1968 June p 74 Ziegler, Karl, 1955 Aug p 49, 1956 Nov p 82, 1957 Sept p 101, 1963 Jan p 96, Dec p 64, 1967 Nov p 28, 1971 Dec p 50 Ziegler, "Skip", 1953 Oct p 39 Zieglgansberger, Walter, 1977 Mar p 52, 53 Ziegner, Erika von, 1955 Jan p 55 Ziff, Edward, 1976 Jan p 73 Zigmond, Richard E, 1976 July p 50 Zihlman, Adrienne, 1978 Apr p 100 Zilboorg, Gregory, 1954 Nov p 89, 1974 June p 20 Zılınskı, Algırd, 1956 Mar p 34, 35 Zilliken, F, 1962 Apr p 77 Zillinsky, Frank J, 1974 Aug p 75 Zilog Inc, 1977 Sept p 114, 119, 120 Zim, Herbert S., 1949 Dec p 53-55 57 Ziman, John M., 1963 July p. 110, 1969 July Zimmer, James E, 1977 Dec p 140 Zimmer, K., 1975 Nov p 83 Zimmerman, Arthur M., 1958 Oct p 43, 1961 Sept p 110 Zimmerman, Ben, 1956 May p 74 Zimmerman, George, 1957 June p 65 1965 Apr p 76, 1973 Nov p 48, 1974 June p 25 Zimmerman, Myron L. 1976 Feb p 55 Zimmerman, Peter D., 1975 Jan p 29 Zimmerman, Steven B, 1968 Oct p 68 Zimmerman, W J, 1973 Dec p 56 Zimmermann, Martin H 1975 July p 102 Zimring, Franklin E. 1971 May p 50 Zinberg Dorothy, 1977 Aug p 52 Zinberg Norman E. 1969 Feb p 44 Dec p 20, 24 Zinder, Norton D 1960 Aug p 141 Nov p 70, 1961 June p 101, 1968 Jan p 39 Zinkernagel, Rolf, 1977 Oct p 106 Zinn, Walter H., 1952 Nov p 42 Dec p 58 60, 1954 May p 50, Dec p 37 1955 Oct p 41, 68, 1960 Jan p 89 1968 Feb p 21 Zinn-Justin, I., 1974 July p 57 1978 Feb Zinsser, Hans, 1951 Jan p 53 1955 Jan p 74 Ziock, K., 1966 Apr p 96 98 Ziolkovsky, Konstantin E., 1949 May p 35 Zipf, George K., 1948 May p. 21, 1952 Apr p 83, 1960 June p 58

Zipser, David, 1968 Apr. p. 44. Zirin, Harold, 1959 June p. 55. Zirkel, Ferdinand, 1962 Oct. p. 47. Zirker, Jack B., 1973 Oct. p. 75. Zirkle, Raymond E., 1959 Sept. p. 96; 1970 Feb. p. 102. Zitcer, Elsa M., 1955 Sept. p. 76. Zobel, Bruce J., 1971 Nov. p. . ZoBell, Claude E., 1952 July p. 38; 1953 Mar. p. 41; 1957 Nov. p. 54; 1977 June p. 42. Zocher, Hans, 1961 Mar. p. 160. Zoč, 1967 May p. 72. Zoll, Paul M., 1968 July p. 20. Zöllner, Johann, 1968 Nov. p. 68. Zolotnisky, N., 1963 July p. 100. Zondek, Bernhard, 1951 Jan. p. 50; 1955 Jan. p. 55. Zondervan Publishing House, 1977 June p. 61. Zopf, Frederich W., 1958 July p. 68, 69. Zorin, Z. M., 1970 Nov. p. 55. Zornetzer, Michelle, 1975 Feb. p. 50. Zoser, 1949 Aug. p. 50. Zoster, S. M., 1968 Feb. p. 96. Zotterman, Y., 1972 June p. 92. Zsigmondy, Richard, 1967 Nov. p. 26.

Zu Rhein, Gabriele M., 1974 Feb. p. 35. Zubay, Geoffrey L., 1972 Aug. p. 101. Zubek, John P., 1970 Oct. p. 24, 29. Zubrod, C. Gordon, 1964 May p. 96. Zucchi, Nicolas, 1968 Feb. p. 75. Zucker, Marjorie, 1957 Dec. p. 54; 1961 Feb. p. 58; 1964 May p. 88. Zuckerkandl, Emile, 1969 July p. 87; 1972 Apr. p. 64; 1976 Nov. p. 70. Zuckerman, B. M., 1973 Mar. p. 60. Zuckerman, Ben, 1974 May p. 110. Zuckerman, Benjamin, 1968 Dec. p. 43; 1969 May p. 54. Zuckerman, Solly, Sir, 1956 June p. 100; 1960 Sept. p. 78. Zuckert, Eugene M., 1952 Mar. p. 34; 1953 Sept. p. 72; 1954 July p. 46; Aug. p. 36; Nov. p. 48. Zuilen, H. van, 1963 Aug. p. 76, 80. Zuloaga, Guillermo, 1954 Mar. p. 78. Zumino, Bruno, 1967 Nov. p. 59; 1977 July p. 59; 1978 Feb. p. 136, 137. Zurich Technische Hochschule, 1958 Feb. p. 54; 1965 July p. 83. Zusne, Leonard, 1971 June p. 36. Zvara, Ivo, 1969 Apr. p. 63.

Zwaardemaker, Hendrik C., 1952 Mar. p. 29, 30. Zweifach, Benjamin W., 1950 Sept. p. 72; 1959 Mar. p. 54. Zweifel, Richard G., 1973 May p. 95. Zweig, George, 1965 Mar. p. 53; 1967 Dec. p. 90; 1971 June p. 73; July p. 100; 1973 Aug. p. 34; 1974 Feb. p. 72; 1975 Jan. p. 49; Feb. p. 62; June p. 51, 60, 62; Oct. p. 41; 1976 Jan. p. 53; Nov. p. 48; 1977 Oct. p. 56. Zweng, Harold C., 1963 July p. 42. Zwick, Martin, 1966 June p. 52. Zwick, Moshe M., 1954 Mar. p. 74. Zwicky, Fritz, 1949 Dec. p. 20; 1954 July p. 30, 34; 1956 Apr. p. 58; 1964 June p. 38; 1965 Feb. p. 28; 1966 Aug. p. 32; 1970 June p. 35; 1971 Jan. p. 50, 52; July p. 77; 1973 Dec. p. 39, 40, 43, 47; 1976 Dec. p. 89, 100; 1977 Oct. p. 47; Nov. p. 76, 77, 84, 87-90. Zwingli, Ulrich, 1964 Feb. p. 121. Zworykin, Katharine P., 1953 Mar. p. 40. Zworykin, Vladimir K., 1949 Apr. p. 30; 1950 Oct. p. 34; 1959 May p. 58; 1972 Jan. p. 56. Zybach, Frank, 1976 June p. 90, 95. Zych, A. D., 1969 Nov. p. 57.

Subscriptions and Back Issues

For information about subscription rates and terms, write to Circulation Manager, Scientific American, Inc., 415 Madison Avenue, New York, N. Y. 10017.

A list of back issues still in stock is also available upon request.

Offprints

All of the articles published in SCIENTIFIC AMERICAN from the issue of January, 1977, on and some 1,000 articles from earlier issues are available as Offprints.

For information write to W. H. Freeman & Company, 660 Market Street, San Francisco, California 94104.

Current catalogue of Offprints available upon request.

This book is composed, by computer-mediated photocomposition, in 8 on 9 point Times Roman body type and Garamond italic and bold display type.

Inside stock is 50-pound smooth Linden Opaque.

Printing, by web offset, was done by Kingsport Press.

The Smyth-sewn case binding is in red Roxite Record Buckram.